

Hydrology Workshop No. 2

September 21, 2012

From: Staples, Rose
Sent: Thursday, July 26, 2012 4:01 PM
To: 'Alves, Jim'; 'Anderson, Craig'; 'Asay, Lynette'; 'Aud, John'; 'Barnes, James'; 'Barnes, Peter'; 'Beniamine Beronia'; 'Blake, Martin'; 'Bond, Jack'; Borovansky, Jenna; 'Boucher, Allison'; 'Bowes, Stephen'; 'Bowman, Art'; 'Brenneman, Beth'; 'Brewer, Doug'; 'Buckley, John'; 'Buckley, Mark'; 'Burt, Charles'; 'Byrd, Tim'; 'Cadagan, Jerry'; 'Carlin, Michael'; 'Charles, Cindy'; 'Colvin, Tim'; 'Costa, Jan'; 'Cowan, Jeffrey'; 'Cox, Stanley Rob'; 'Cranston, Peggy'; 'Cremeen, Rebecca'; 'Damin Nicole'; 'Day, Kevin'; 'Day, P'; 'Denean'; 'Derwin, Maryann Moise'; Devine, John; 'Donaldson, Milford Wayne'; 'Dowd, Maggie'; 'Drekmeier, Peter'; 'Edmondson, Steve'; 'Eicher, James'; 'Fargo, James'; 'Ferranti, Annee'; 'Ferrari, Chandra'; 'Fety, Lauren'; 'Findley, Timothy'; 'Fuller, Reba'; 'Furman, Donn W'; 'Ganteinbein, Julie'; 'Giglio, Deborah'; 'Gorman, Elaine'; 'Grader, Zeke'; 'Gutierrez, Monica'; 'Hackamack, Robert'; 'Hastreiter, James'; 'Hatch, Jenny'; 'Hayat, Zahra'; 'Hayden, Ann'; 'Hellam, Anita'; 'Heyne, Tim'; 'Holley, Thomas'; 'Holm, Lisa'; 'Horn, Jeff'; 'Horn, Timi'; 'Hudelson, Bill'; 'Hughes, Noah'; 'Hughes, Robert'; 'Hume, Noah'; 'Jackman, Jerry'; 'Jackson, Zac'; 'Jennings, William'; 'Jensen, Art'; 'Jensen, Laura'; 'Johannis, Mary'; 'Johnson, Brian'; 'Justin'; 'Keating, Janice'; 'Kempton, Kathryn'; 'Kinney, Teresa'; 'Koepele, Patrick'; 'Kordella, Lesley'; 'Lara, Marco'; 'Lein, Joseph'; 'Levin, Ellen'; 'Lewis, Reggie'; 'Linkard, David'; 'Looker, Mark'; 'Loy, Carin'; 'Lwanya, Roselynn'; 'Lyons, Bill'; 'Madden, Dan'; 'Manji, Annie'; 'Marko, Paul'; 'Marshall, Mike'; 'Martin, Michael'; 'Martin, Ramon'; 'Mathiesen, Lloyd'; 'McDaniel, Dan'; 'McDevitt, Ray'; 'McDonnell, Marty'; 'McLain, Jeffrey'; 'Mein Janis'; 'Mills, John'; 'Minami Amber'; 'Monheit, Susan'; 'Morningstar Pope, Rhonda'; 'Motola, Mary'; 'Murphrey, Gretchen'; 'O'Brien, Jennifer'; 'Orvis, Tom'; 'Ott, Bob'; 'Ott, Chris'; 'Paul, Duane'; 'Pavich, Steve'; 'Pinhey, Nick'; 'Pool, Richard'; 'Porter, Ruth'; 'Powell, Melissa'; 'Puccini, Stephen'; 'Raeder, Jessie'; 'Ramirez, Tim'; 'Rea, Maria'; 'Reed, Rhonda'; 'Richardson, Kevin'; 'Ridenour, Jim'; 'Robbins, Royal'; 'Romano, David O'; 'Roos-Collins, Richard'; 'Roseman, Jesse'; 'Rothert, Steve'; 'Sandkulla, Nicole'; 'Saunders, Jenan'; 'Schutte, Allison'; 'Sears, William'; 'Shakal, Sarah'; 'Shipley, Robert'; 'Shumway, Vern'; 'Shutes, Chris'; 'Sill, Todd'; 'Slay, Ron'; 'Smith, Jim'; 'Staples, Rose'; 'Steindorf, Dave'; 'Steiner, Dan'; 'Stone, Vicki'; 'Stork, Ron'; 'Stratton, Susan'; 'Taylor, Mary Jane'; 'Terpstra, Thomas'; 'TeVelde, George'; 'Thompson, Larry'; 'Vasquez, Sandy'; 'Verkuil, Colette'; 'Vierra, Chris'; 'Wantuck, Richard'; 'Welch, Steve'; 'Wesselman, Eric'; 'Wheeler, Dan'; 'Wheeler, Dave'; 'Wheeler, Douglas'; 'Wilcox, Scott'; 'Williamson, Harry'; 'Willy, Allison'; 'Wilson, Bryan'; 'Winchell, Frank'; 'Wooster, John'; 'Workman, Michelle'; 'Yoshiyama, Ron'; 'Zipser, Wayne'

Subject: Don Pedro: Lower Tuolumne accretion measurement data
Attachments: Accretion-Depletion Measurement Locations Memo_Review_120606.pdf; 2012-0725 Accretion_Q Summary.pdf

Attached please find results of accretion measurements collected by the Districts at the locations, and using the methods proposed by the Districts on June 6, 2012. No comments from relicensing participants on these locations and methods were received, so the Districts implemented the measurements as described in the June 6 proposal (attached) during the last week of June.

The Districts would like to propose an additional Relicensing Participant meeting on August 10 from 10 am – 12:30pm to discuss several items.

In the attached accretion measurement plan, the Districts committed to providing information by early-August. We are providing the field results early, in order to facilitate discussion of next steps sooner rather than later – and to allow for appropriate planning to meet any additional information needs.

During study plan development, NMFS requested, and the Districts agreed to provide, additional statistical analyses related to flows, where it is available. The Districts would like to review precisely which data are available with participants, and work with NMFS and other relicensing participants to confirm that the information requests are fully understood and analyses can be initiated in response to these requests.

Please reply by Wednesday, August 1 to Rose Staples (Rose.Staples@hdrinc.com) with your availability and interest in participating in the August 10 meeting. The meeting will be held at MID offices, and a conference line and web-link will be made available. Thank you.

P.S.: This message and the attached documents are also being uploaded to the relicensing website at www.donpedro-relicensing.com.

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Memo

To:	Don Pedro Relicensing Participants	
From:	Turlock Irrigation District / Modesto Irrigation District	Project: Don Pedro Hydroelectric Project
Date:	June 6, 2012	

RE: Study W&AR 2 Operations Model
Action Item from April 9, 2012, Hydrology Workshop
Proposed Lower Tuolumne Flow Accretion and Depletion Measurement Locations

In accordance with our Study Plan W&AR-2 (November 22, 2011), the FERC Study Plan Determination (December 22, 2011), and the most recent FERC Study Dispute Determination (May 24, 2012), we are planning to undertake between June 25 and 29, 2012, flow measurements along the lower Tuolumne River between La Grange Gage and the San Joaquin River confluence, as well as within Dry Creek, to develop estimates of flow accretions and/or depletions (Table 1 and Figure 1). Using accepted flow measurement methodologies, flows will be measured at permanent gage locations, established Instream Flow Incremental Methodology (IFIM) transect locations, and other sites where flow changes may be discernible. Fieldwork will consist of direct measurement of in-channel discharge at ten locations when flows of 100 cubic feet per second are scheduled, as well as opportunistic flow data acquisition at six additional irrigation canal outflow locations, if outflows are occurring. Discharge at each site will be measured using standard methods for collecting data in wadeable streams (Rantz 1982). Depths and mean column water velocities will be measured across each transect using the same methods as used in the co-occurring IFIM stream habitat assessment (Stillwater Sciences 2009). Where transects have a series of water depths greater than approximately 3.5 feet, depth and velocity may be measured using Acoustic Doppler Current Profiler methods (e.g., Simpson 2002). *Please provide suggestions or comments on this plan to John Devine (john.devine@hdrinc.com) by Wednesday, June 20th.* This data is targeted to be compiled, checked, and then shared with Relicensing Participants by the first week in August.

Table 1. Flow measurement and data acquisition June 2012.

River Mile	Location
51.5	Near La Grange Gage
49.1	Basso Pool
43.4	Bobcat Flat
39.5	Roberts Ferry Bridge
37.1	Santa Fe Aggregates
33	Waterford Main (MID) ¹
33	Hickman Spill (TID) ²
31.5	Waterford
20	Faith Home Spill (TID) ²
18	Lateral No. 1 (MID) ¹
17.2	Legion Park
16.4	Dry Creek Gage
16.2	Modesto Gage
11	Lateral 1 (TID) ²
3.4	Shiloh Road
2	Lateral No. 5 (MID) ¹

¹Opportunistic site. Flow data provided by MID if outflow is occurring during study period

²Opportunistic site. Flow data provided by TID if outflow is occurring during study period

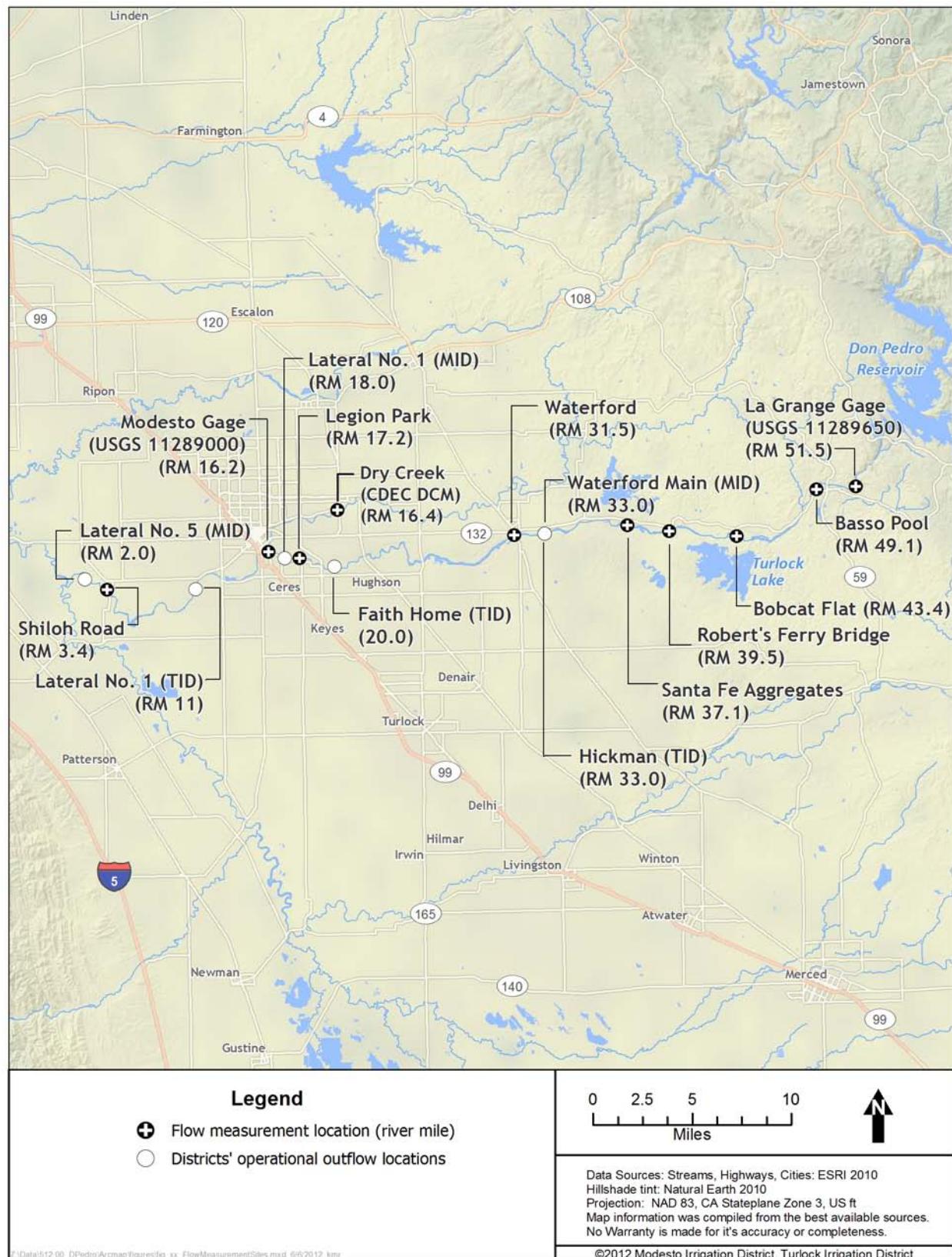


Figure 1. Flow measurement site locations along the lower Tuolumne River, June 2012.

References

- Rantz, S.E. 1982. Measurement and computation of streamflow: volume 1. Measurements of stage and discharge. USGS Water Supply Paper 2175. U.S. Geological Survey.
- Stillwater Sciences. 2009. Tuolumne River Instream Flow Studies. Final Study Plan. Prepared by Stillwater Sciences, Davis, California for Turlock Irrigation District and Modesto Irrigation Districts, California.
- Simpson, M.R., 2002, Discharge measurements using a Broad-Band Acoustic Doppler Current Profiler: U.S. Geological Survey Open-File Report 01-01, 123 p.

Tuolumne River and Dry Creek Flow Measurements

June 25, 2012

Site	Date	Dry Creek River Mile	Tuolumne River Mile	Time (military)	Field Measurements ^a					Discharge (ft ³ /sec)	Difference between Gage & Measured ^b (%)	
					Measured Discharge (ft ³ /sec)							
					Start	End	Q1 ^c	Q2	Q3	AVG		
Tuolumne River at La Grange gage house	6/25/12	--	51.5	0950	1120	119.2	110.6	--	114.9	114.9	--	
Tuolumne River at La Grange (USGS 11289650) ^d	6/25/12	--	51.5	0945	1130	--	--	--	--	130	12	
Tuolumne River at La Grange (CDEC LGN) ^e	6/25/12	--	51.5	0000	2345	--	--	--	--	94	22	
Tuolumne River at Basso Pool	6/25/12	--	49.1	1325	1440	101.3	103.7	--	102.5	102.5	--	
Tuolumne River at Bobcat Flat	6/25/12	--	43.4	1300	1625	93.3	105.5	99.0	99.2	99.2	--	
Tuolumne River at Roberts Ferry Bridge	6/25/12	--	39.5	1535	1635	128.6	122.4	--	125.5	125.5	--	
Tuolumne River at Santa Fe Aggregates	6/25/12	--	37.1	1720	1830	119.1	126.0	--	122.5	122.5	--	
Waterford Main (MID) ^f	6/25/12	--	33	1800	2000	--	--	--	--	8	--	
Hickman Spill (TID) ^g	6/25/12	--	33	0000	2345	--	--	--	--	0	--	
Tuolumne River at Waterford	6/25/12	--	31.5	1834	1932	122.0	118.5	--	120.2	120.2	--	
Tuolumne River at Delaware Road ^h	6/29/12	--	30.5	1045	1230	138.7	138.1	--	138.4	138.4	--	
Faith Home Spill (TID) ^g	6/25/12	--	20	0000	2345	--	--	--	--	0	--	
Lateral No. 1 (MID) ^f	6/25/12	--	18	1115	1230	--	--	--	--	1	--	
Tuolumne River at Legion Park	6/25/12	--	17.2	1115	1230	169.1	181.6	--	175.4	175.4	--	
Dry Creek (CDEC DCM) ^{g,i}	6/25/12	5.3	16.4	0000	2345	--	--	--	--	38	--	
Dry Creek ^k	6/25/12	0.0	16.4	0915	1015	56.4	54.7	--	55.5	55.5	46 ^k	
Tuolumne River at Modesto 9th St. Bridge	6/25/12	--	16.2	1300	1400	204.2	212.1	--	208.2	208.2	--	
Tuolumne River at Modesto (USGS 11290000) ^d	6/25/12	--	16.2	1300	1400	--	--	--	--	219	5	
Tuolumne River at Modesto (CDEC MOD) ^e	6/25/12	--	16.2	0000	2345	--	--	--	--	216	4	
Lateral 1 (TID) ^g	6/25/12	--	11	0000	2345	--	--	--	--	0	--	
Tuolumne River at Shiloh Bridge	6/25/12	--	3.7	1530	1700	241.3	251.3	--	246.3	246.3	--	
Lateral No. 5 (MID) ^f	6/25/12	--	2	0900	2000	--	--	--	--	26.5	--	

-- not measured or not applicable

Grey is used to highlight inflow locations and flows.

Notes:

^a Measurements collected by Stillwater Sciences using standard methods for collecting data in wadeable streams (Rantz 1982).

^b Percent Difference = $|Q_{\text{measured}}/Q_{\text{gage}}| * 100$, where Q_{measured} is the measured flow and Q_{gage} is the gage flow.

^c Q = flow. Q1, Q2, and Q3 are replicate measurements.

^d Average data for measurement time interval, downloaded from USGS NWIS website: <http://waterdata.usgs.gov/usa/nwis/sw>. Flows reflect a rating curve "shift" retroactively applied by USGS on or about June 28, 2012. The difference between flows reported under the old and new rating curves for that date and time is approximately 30 cfs.

^e Mean daily flow downloaded from CDEC website: <http://cdec.water.ca.gov/selectQuery.html>. Does not reflect La Grange gage's updated rating curve.

^f Average flow for the time interval, provided by MID (Ward, pers. comm. 2012)

^g Daily flow provided by TID (Boyd, pers. comm. 2012)

^h In Waterford downstream of Waterford Water Treatment Plant discharge. Data collected later than other sites; however, the temporary stage installed for the co-occurring IFIM study upstream at the Waterford site (RM 31.5) was within 1/100 ft between the two sample dates, indicating little change in flow between 6/29/12 versus 6/25/12.

ⁱ Dry Creek gage located upstream at Dry Creek RM 5.3 at Claus Rd., Modesto.

^j Measurements taken in Dry Creek at confluence with Tuolumne River.

^k Unlike the other locations, Dry Creek flow measurements were not taken at the gage. This number expresses how much flows increase below the gage. On June 25, flows increased almost 50% below the gage, accounting for 1/3 of the total flow.

From: Staples, Rose
Sent: Thursday, August 02, 2012 3:40 PM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Aud, John; Barnes, James; Barnes, Peter; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeier, Peter; Edmondson, Steve; Eicher, James; Fargo, James; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; Hughes, Robert; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koepele, Patrick; Kordella, Lesley; Lara, Marco; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Looker, Mark; Loy, Carin; Lwanya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne

Subject: Don Pedro - Preferred Date for Reschedule of Proposed Hydrology Workshop

On July 26, the Districts' issued a notice of a proposed Hydrology Workshop to be held on August 10, 2012 to review the recent Accretion Flow report issued on July 26, 2012 and to discuss additional hydrologic analyses as directed by the FERC Director in his May 24th decision on Dispute Resolution.

The Districts received comments from a number of Relicensing Participants that they are interested in participating in the Hydrology Workshop, but are not available on that date. The Districts recognize the very short time frame provided between the meeting notice and the meeting. Therefore, the Districts are proposing to reschedule the Workshop to later in September. If you are interested in participating in the Workshop to be held at the offices of Modesto Irrigation District, please let us know which date of those listed below you would prefer:

- Thursday, September 20th from 1 PM to 4:30 PM

- Friday, September 21st from 9:00 AM to 12:30 PM
- Monday, September 24th from 9:00 AM to 12:30 PM, or
- Monday, September 24th from 1:00 PM to 4:30 PM.

Please respond to rose.staples@hdrinc.com with your preference. For an up-to-date list of previously scheduled meetings for the Don Pedro relicensing, please go to <https://www.donpedro-relicensing.com/> / Introduction-Announcements.

Thank you.

ROSE STAPLES
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From: Staples, Rose
Sent: Monday, August 06, 2012 8:13 PM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Aud, John; Barnes, James; Barnes, Peter; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeier, Peter; Edmondson, Steve; Eicher, James; Fargo, James; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; Hughes, Robert; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koepele, Patrick; Kordella, Lesley; Lara, Marco; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Looker, Mark; Loy, Carin; Lwanya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne

Subject: Don Pedro - New Hydrology Workshop Date Set

On August 2nd I had emailed you regarding the rescheduling of the proposed Hydrology Workshop (previously announced for August 10, 2012), asking for your preference of Thursday September 20 afternoon, Friday September 21 morning, Monday September 24 morning or Monday September 24 afternoon.

Of those who responded (thank you), the date that most people could make is **Friday, September 21 from 9:00 a.m. to 12:30 p.m.** Therefore, the Districts will be rescheduling the workshop for that date.

Thank you.

ROSE STAPLES
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From: Staples, Rose
Sent: Tuesday, September 11, 2012 5:16 PM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Aud, John; Barnes, James; Barnes, Peter; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeier, Peter; Edmondson, Steve; Eicher, James; Fargo, James; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; Hughes, Robert; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koepele, Patrick; Kordella, Lesley; Lara, Marco; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Looker, Mark; Loy, Carin; Lwanya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne

Subject: Don Pedro Project September 21 Hydrologic Investigations Workshop AGENDA

The AGENDA for Don Pedro Project's Hydrologic Investigations Workshop, scheduled for Friday, September 21st at the MID Offices in Modesto from 9:00 a.m. to 12:30 p.m., is as follows:

Don Pedro Relicensing Participants Hydrologic Investigations Workshop

AGENDA

**September 21, 2012 - 9:00 a.m. – 12:30 p.m.
Modesto Irrigation District Offices
Conference Call-In Number 866-994-6437; Code 5424697994**

9:00 a.m.- 9:15 a.m.

Introductions & Purpose of Meeting

- (1) **Review of Accretion Flow Measurements Conducted on June 25, 2012**
- (2) **Discussion of Hydrologic Analyses the Districts are planning to undertake**

9:15 a.m.-10:30 a.m.	Discussion of Results and Path Forward Related to Accretion Flow Measurements Conducted on June 25, 2012 and Provided to Relicensing Participants on July 26, 2012
10:30 a.m.-11:30 a.m.	<p>Discussion of Hydrologic Analyses to be Conducted by the Districts in Accordance with FERC's Study Plan Determination and Dispute Resolution</p> <ul style="list-style-type: none"> (1) Available Streamflow Data Records/Sources Confirmed by Districts (2) Overview of FERC's Study Plan Determination and Dispute Decision as Relates to Hydrologic Analyses (3) Statistical Analyses to be Conducted for Existing Project Conditions <ul style="list-style-type: none"> a. Average, maximum and minimum monthly flows for 1971- 2009, 1996-2009, and by water year type b. Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type c. Average annual flows for 1971-2009 and 1996-2009 d. 1-, 3-, and 7-day maximum mean daily flow for each year of 1971-2009 e. 1-, 3-, and 7-day minimum mean daily flows for each year of 1971-2009 f. Julian date and magnitude of annual maximum and minimum (4) Watershed Locations for Statistical Analyses <ul style="list-style-type: none"> a. Tuolumne River, inflow to Don Pedro Reservoir b. Tuolumne River just above La Grange Dam c. Turlock Canal near La Grange CA (USGS gage) d. Modesto Canal near La Grange CA (USGS gage) e. Tuolumne River below La Grange Dam near La Grange CA (USGS gage) f. Dry Creek at Modesto (CDWR gage) g. Tuolumne River at Modesto CA (USGS gage)
11:30 a.m.-12:30 p.m.	<p>Other Hydrologic Analyses to be Conducted (these analyses need further clarification and discussion)</p> <ul style="list-style-type: none"> (1) Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California (2) Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records

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rose.staples@hdrinc.com | hdrinc.com

From: Staples, Rose
Sent: Tuesday, September 18, 2012 7:03 PM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Barnes, James; Barnes, Peter; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeier, Peter; Edmondson, Steve; Eicher, James; Fargo, James; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; Hughes, Robert; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koepele, Patrick; Kordella, Lesley; Lara, Marco; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Looker, Mark; Loy, Carin; Lwenya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne

Subject: Materials for Reference During Don Pedro Relicensing Hydrologic Investigations Workshop
September 21

We have uploaded the following documents to the www.donpedro-relicensing.com website (Introduction Tab/Announcements) for your reference during Friday's Don Pedro Relicensing Hydrologic Investigations Workshop.

AGENDA_Hydrologic Investigations Workshop_120921_Published 120911

Agenda for the Friday, September 21 Workshop, originally published on September 11 both as an email and as an announcement on the Don Pedro website

Accretion-Depletion Measurement Locations Memo_Published for Review 120606

This document was original published for review on June 6, and subsequently uploaded to the Don Pedro website, along with a summary of the June 25 measurements taken

June 25 Flow Measurements Summary_Published July 2012

This summary of the June 25 Tuolumne River and Dry Creek measurements, taken June 25, 2012, was originally published on the Don Pedro website in July

FlowTrends_Summer2007-2011_120918 and FlowTrends_Winter2007-2011_120918

Summer and winter flow trends for years 2007 to 2011, showing flow records from the Tuolumne River USGS Gage 11290000 at Modesto/9th Street, Tuolumne River USGS Gage 11289650 just downstream of La Grange, and Dry Creek CDEC Gage DCM (approximately 5.5 miles upstream from Dry Creek mouth at Modesto). Also included are accretion/depletion flow trend for each season occurring between La Grange and Modesto on the Tuolumne River, based on subtracting the Tuolumne River La Grange gage and Dry Creek gage (prorated to provide flow at Dry Creek mouth) from the Tuolumne River 9th Street gage flow.

Map_TR from DP Dam to SJ River_120918

Map of the Tuolumne River from the Don Pedro Dam to the San Joaquin River

If you have any problems accessing or downloading any of these files, please let me know. Thank you.

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**Don Pedro Relicensing Participants
Hydrologic Investigations Workshop
AGENDA**

September 21, 2012 - 9:00 a.m. – 12:30 p.m.

Modesto Irrigation District Offices

Conference Call-In Number 866-994-6437; Code 5424697994

9:00 a.m.- 9:15 a.m.

Introductions & Purpose of Meeting

- (1) Review of Accretion Flow Measurements Conducted on June 25, 2012
- (2) Discussion of Hydrologic Analyses the Districts are Planning to Undertake

9:15 a.m.-10:30 a.m.

Discussion of Results and Path Forward Related to Accretion Flow Measurements Conducted on June 25, 2012 and Provided to Relicensing Participants on July 26, 2012

10:30 a.m.-11:30 a.m.

Discussion of Hydrologic Analyses to be Conducted by the Districts in Accordance with FERC's Study Plan Determination and Dispute Resolution

- (1) Available Streamflow Data Records/Sources Confirmed by Districts
- (2) Overview of FERC's Study Plan Determination and Dispute Decision as Relates to Hydrologic Analyses
- (3) Statistical Analyses to be Conducted for Existing Project Conditions
 - a. Average, maximum and minimum monthly flows for 1971-2009, 1996-2009, and by water year type
 - b. Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type
 - c. Average annual flows for 1971-2009 and 1996-2009
 - d. 1-, 3-, and 7-day maximum mean daily flow for each year of 1971-2009
 - e. 1-, 3-, and 7-day minimum mean daily flows for each year of 1971-2009
 - f. Julian date and magnitude of annual maximum and minimum
- (4) Watershed Locations for Statistical Analyses
 - a. Tuolumne River, inflow to Don Pedro Reservoir
 - b. Tuolumne River just above La Grange Dam
 - c. Turlock Canal near La Grange CA (USGS gage)
 - d. Modesto Canal near La Grange CA (USGS gage)
 - e. Tuolumne River below La Grange Dam near La Grange CA (USGS gage)
 - f. Dry Creek at Modesto (CDWR gage)
 - g. Tuolumne River at Modesto CA (USGS gage)

11:30 a.m.-12:30 p.m.

Other Hydrologic Analyses to be Conducted (these analyses need further clarification and discussion)

- (1) Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California
- (2) Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records



Memo

To:	Don Pedro Relicensing Participants	
From:	Turlock Irrigation District / Modesto Irrigation District	Project: Don Pedro Hydroelectric Project
Date:	June 6, 2012	

RE: Study W&AR 2 Operations Model
Action Item from April 9, 2012, Hydrology Workshop
Proposed Lower Tuolumne Flow Accretion and Depletion Measurement Locations

In accordance with our Study Plan W&AR-2 (November 22, 2011), the FERC Study Plan Determination (December 22, 2011), and the most recent FERC Study Dispute Determination (May 24, 2012), we are planning to undertake between June 25 and 29, 2012, flow measurements along the lower Tuolumne River between La Grange Gage and the San Joaquin River confluence, as well as within Dry Creek, to develop estimates of flow accretions and/or depletions (Table 1 and Figure 1). Using accepted flow measurement methodologies, flows will be measured at permanent gage locations, established Instream Flow Incremental Methodology (IFIM) transect locations, and other sites where flow changes may be discernible. Fieldwork will consist of direct measurement of in-channel discharge at ten locations when flows of 100 cubic feet per second are scheduled, as well as opportunistic flow data acquisition at six additional irrigation canal outflow locations, if outflows are occurring. Discharge at each site will be measured using standard methods for collecting data in wadeable streams (Rantz 1982). Depths and mean column water velocities will be measured across each transect using the same methods as used in the co-occurring IFIM stream habitat assessment (Stillwater Sciences 2009). Where transects have a series of water depths greater than approximately 3.5 feet, depth and velocity may be measured using Acoustic Doppler Current Profiler methods (e.g., Simpson 2002). *Please provide suggestions or comments on this plan to John Devine (john.devine@hdrinc.com) by Wednesday, June 20th.* This data is targeted to be compiled, checked, and then shared with Relicensing Participants by the first week in August.

Table 1. Flow measurement and data acquisition June 2012.

River Mile	Location
51.5	Near La Grange Gage
49.1	Basso Pool
43.4	Bobcat Flat
39.5	Roberts Ferry Bridge
37.1	Santa Fe Aggregates
33	Waterford Main (MID) ¹
33	Hickman Spill (TID) ²
31.5	Waterford
20	Faith Home Spill (TID) ²
18	Lateral No. 1 (MID) ¹
17.2	Legion Park
16.4	Dry Creek Gage
16.2	Modesto Gage
11	Lateral 1 (TID) ²
3.4	Shiloh Road
2	Lateral No. 5 (MID) ¹

¹Opportunistic site. Flow data provided by MID if outflow is occurring during study period

²Opportunistic site. Flow data provided by TID if outflow is occurring during study period

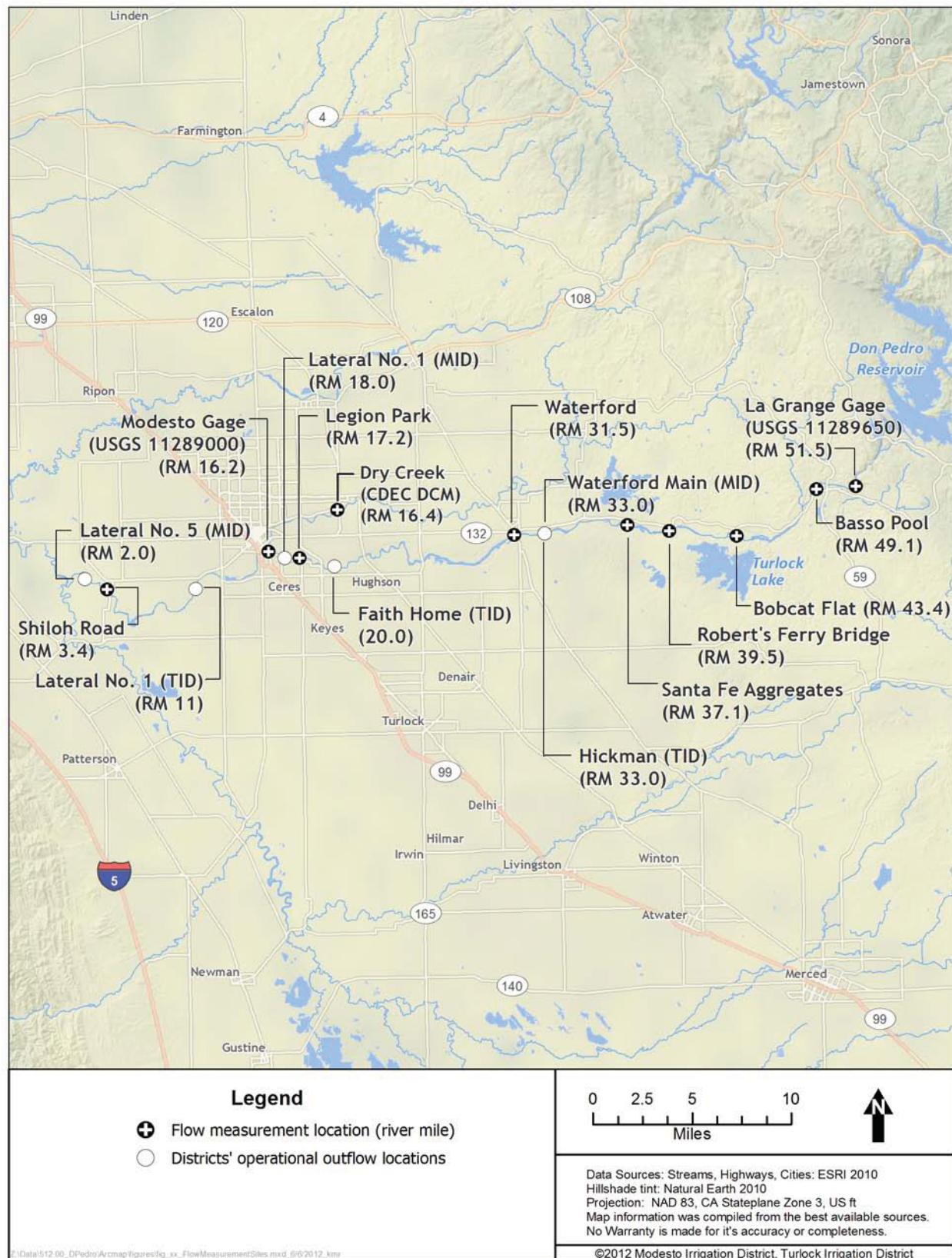
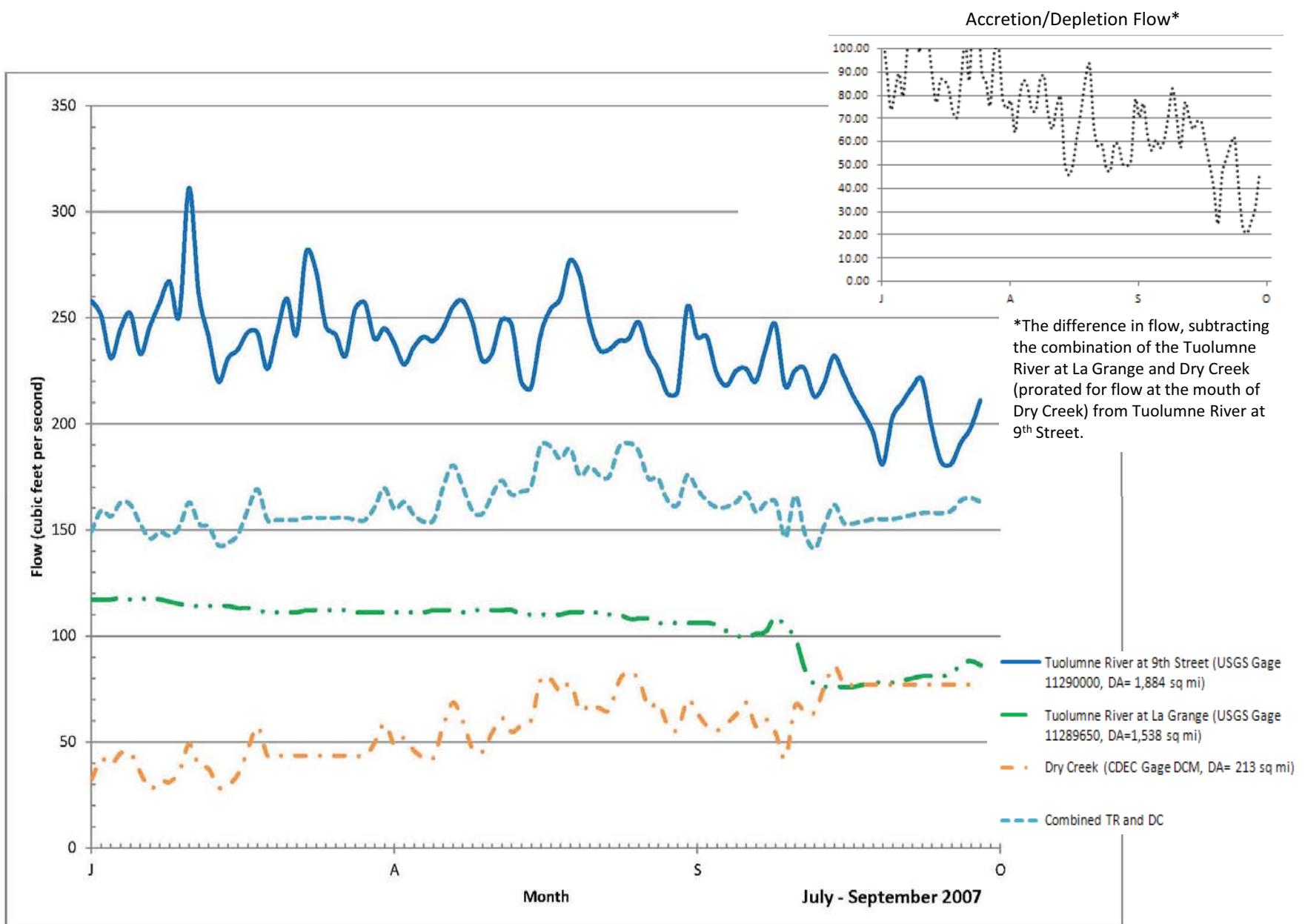
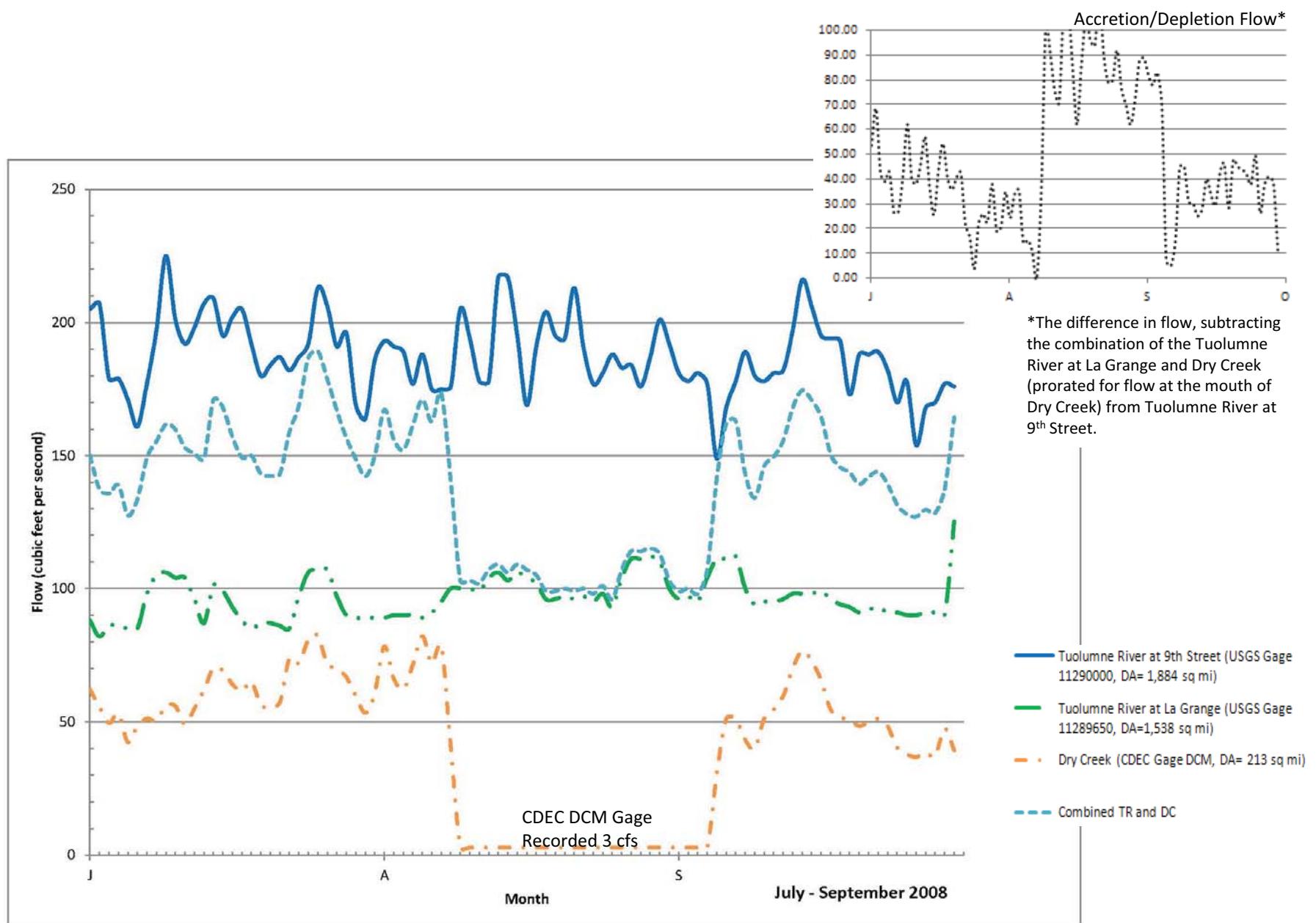


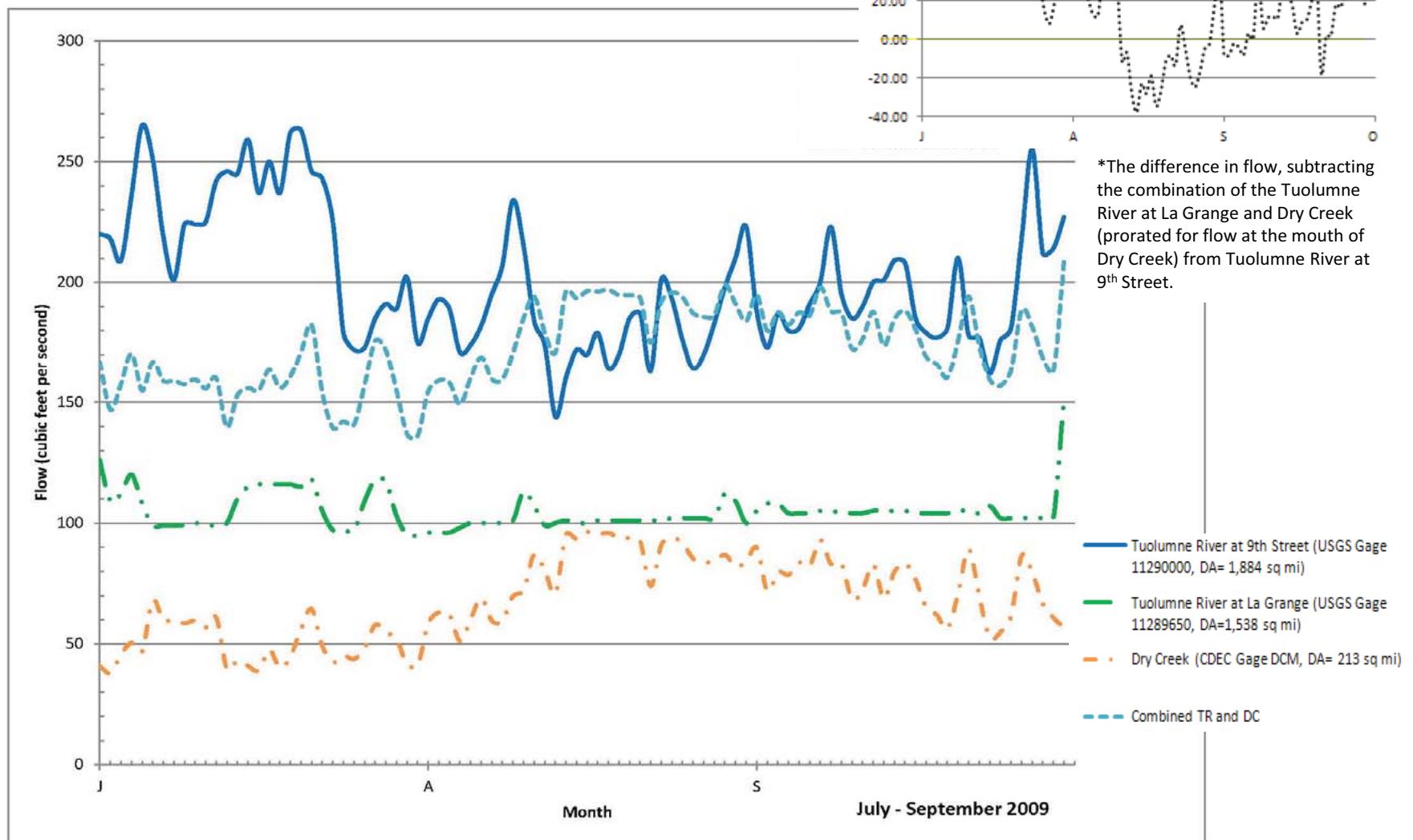
Figure 1. Flow measurement site locations along the lower Tuolumne River, June 2012.

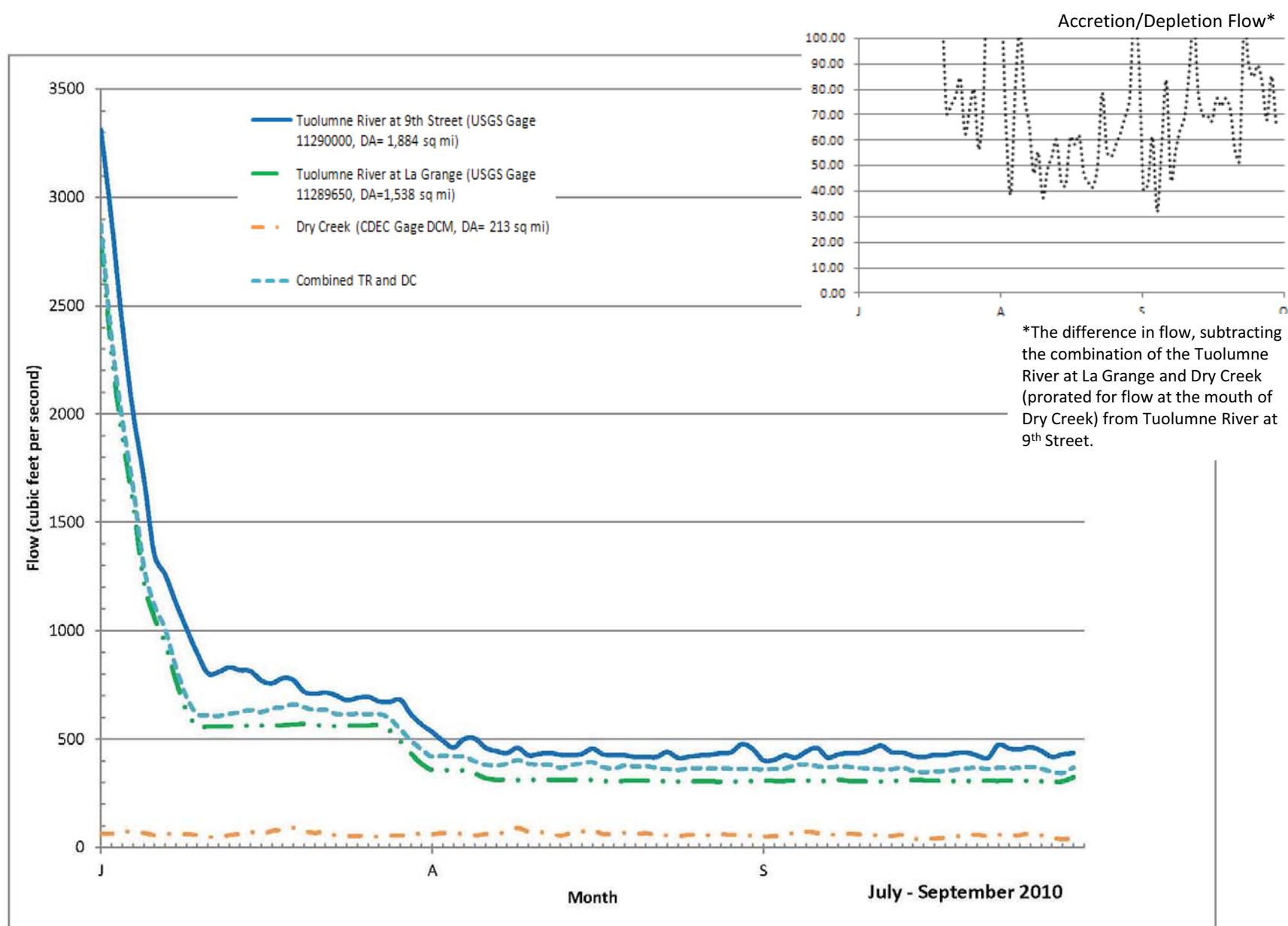
References

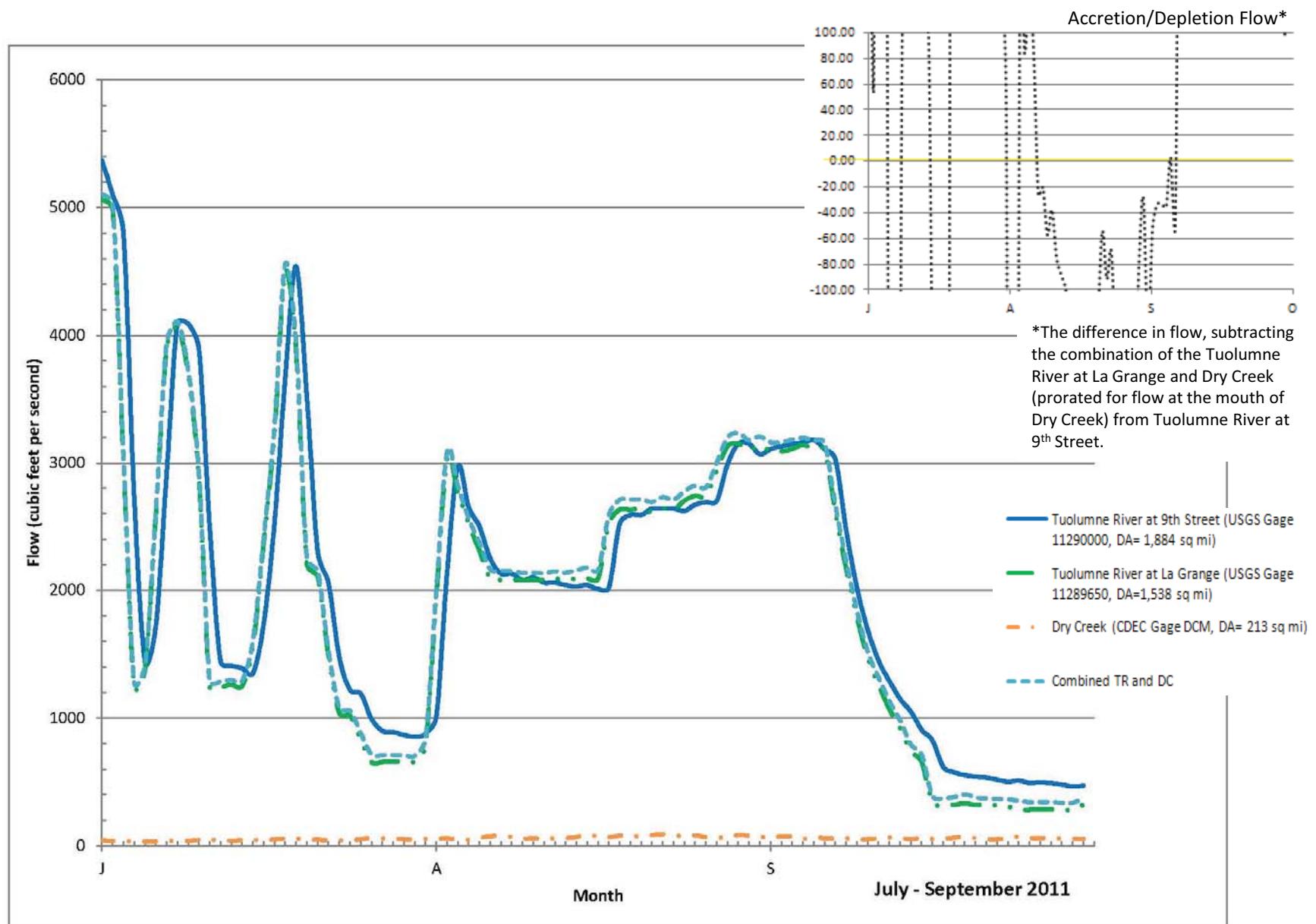
- Rantz, S.E. 1982. Measurement and computation of streamflow: volume 1. Measurements of stage and discharge. USGS Water Supply Paper 2175. U.S. Geological Survey.
- Stillwater Sciences. 2009. Tuolumne River Instream Flow Studies. Final Study Plan. Prepared by Stillwater Sciences, Davis, California for Turlock Irrigation District and Modesto Irrigation Districts, California.
- Simpson, M.R., 2002, Discharge measurements using a Broad-Band Acoustic Doppler Current Profiler: U.S. Geological Survey Open-File Report 01-01, 123 p.

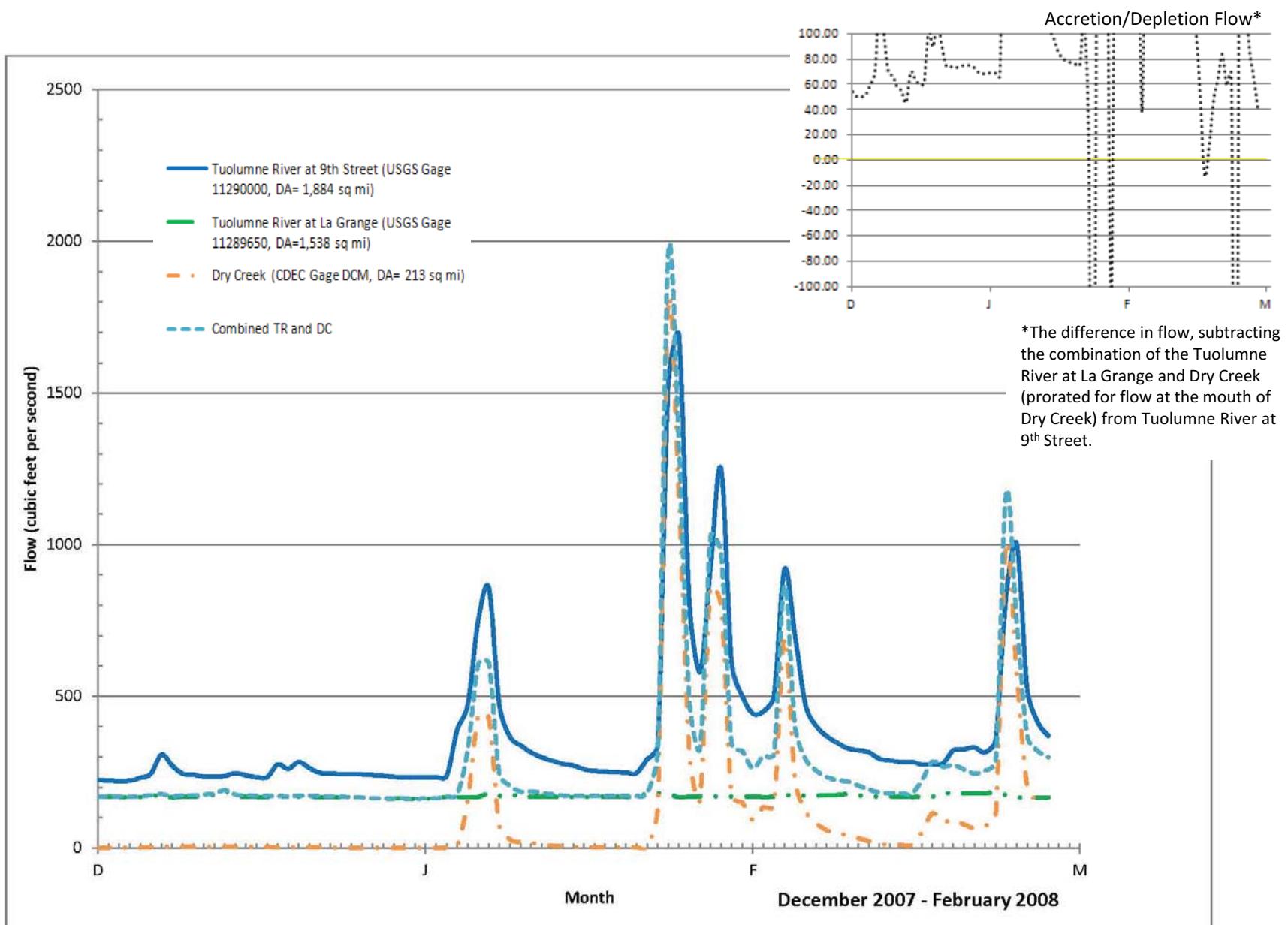


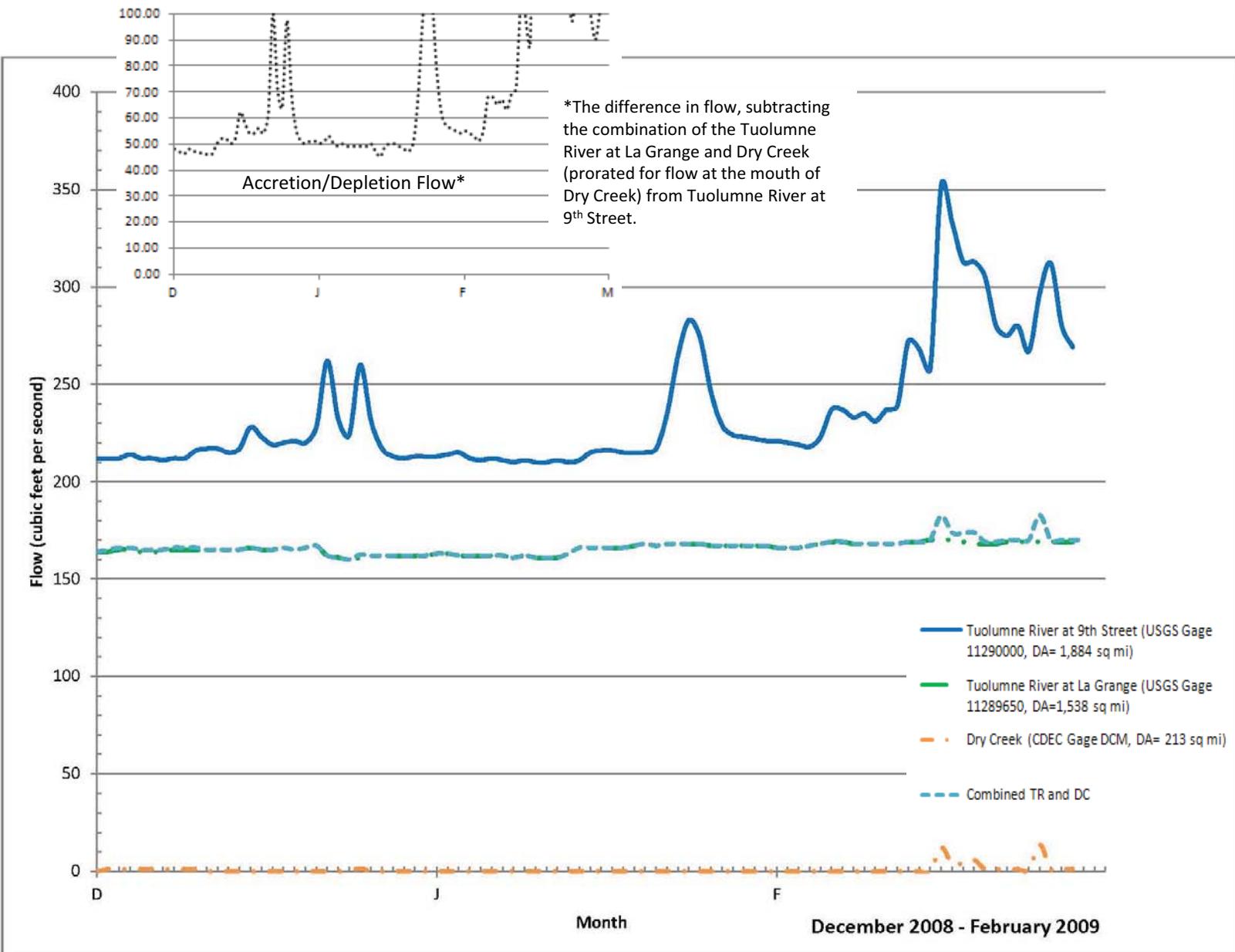


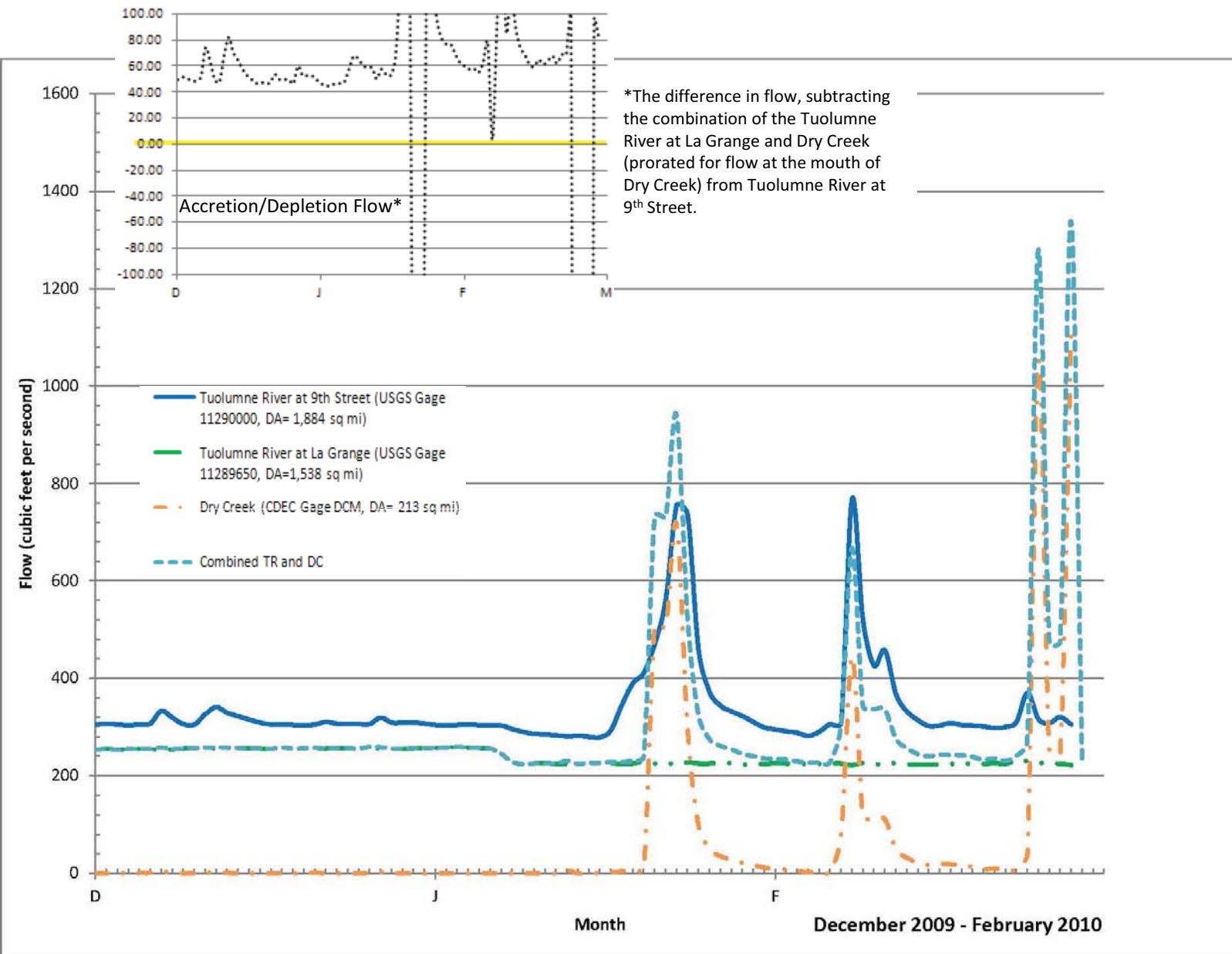


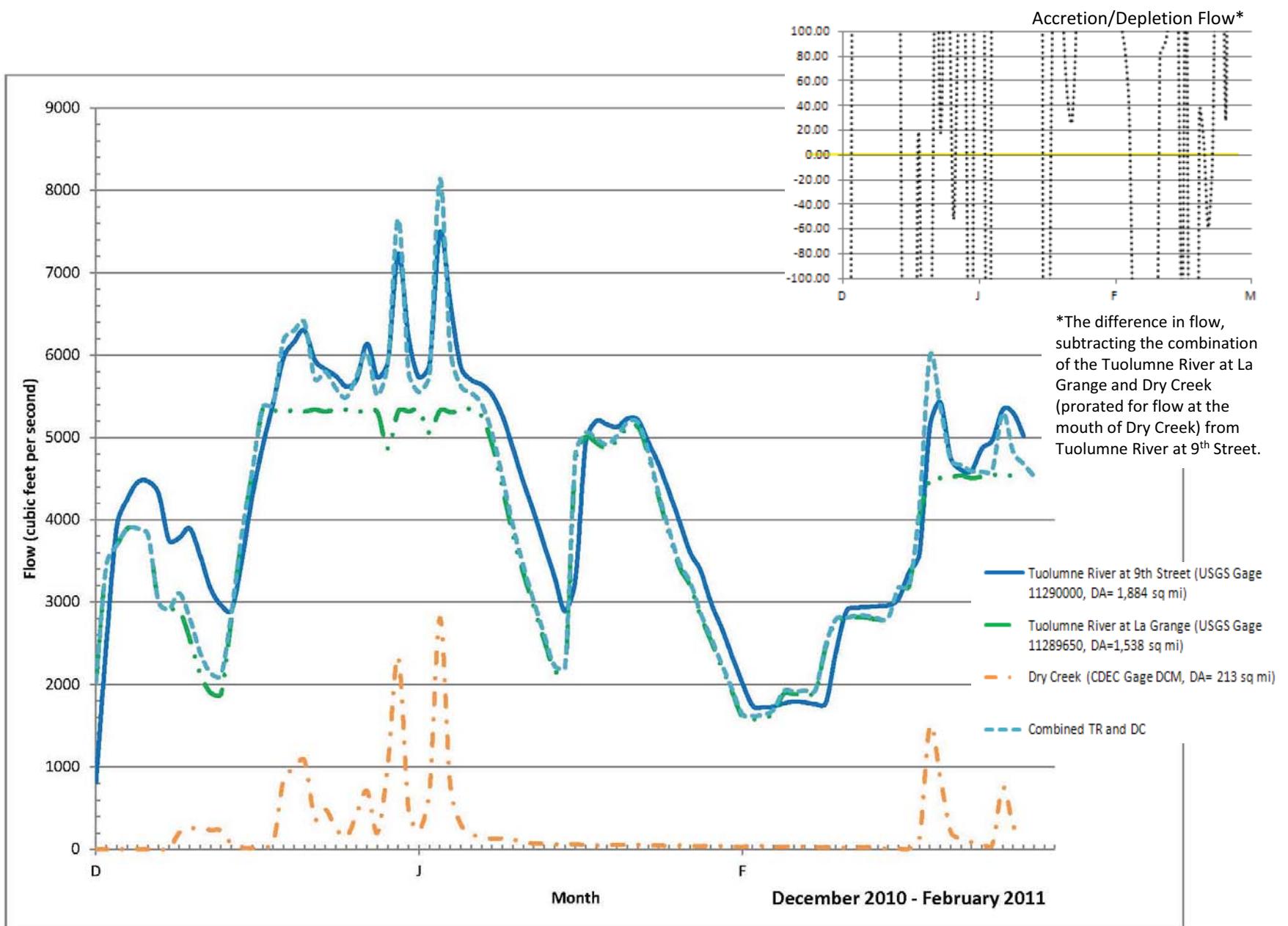


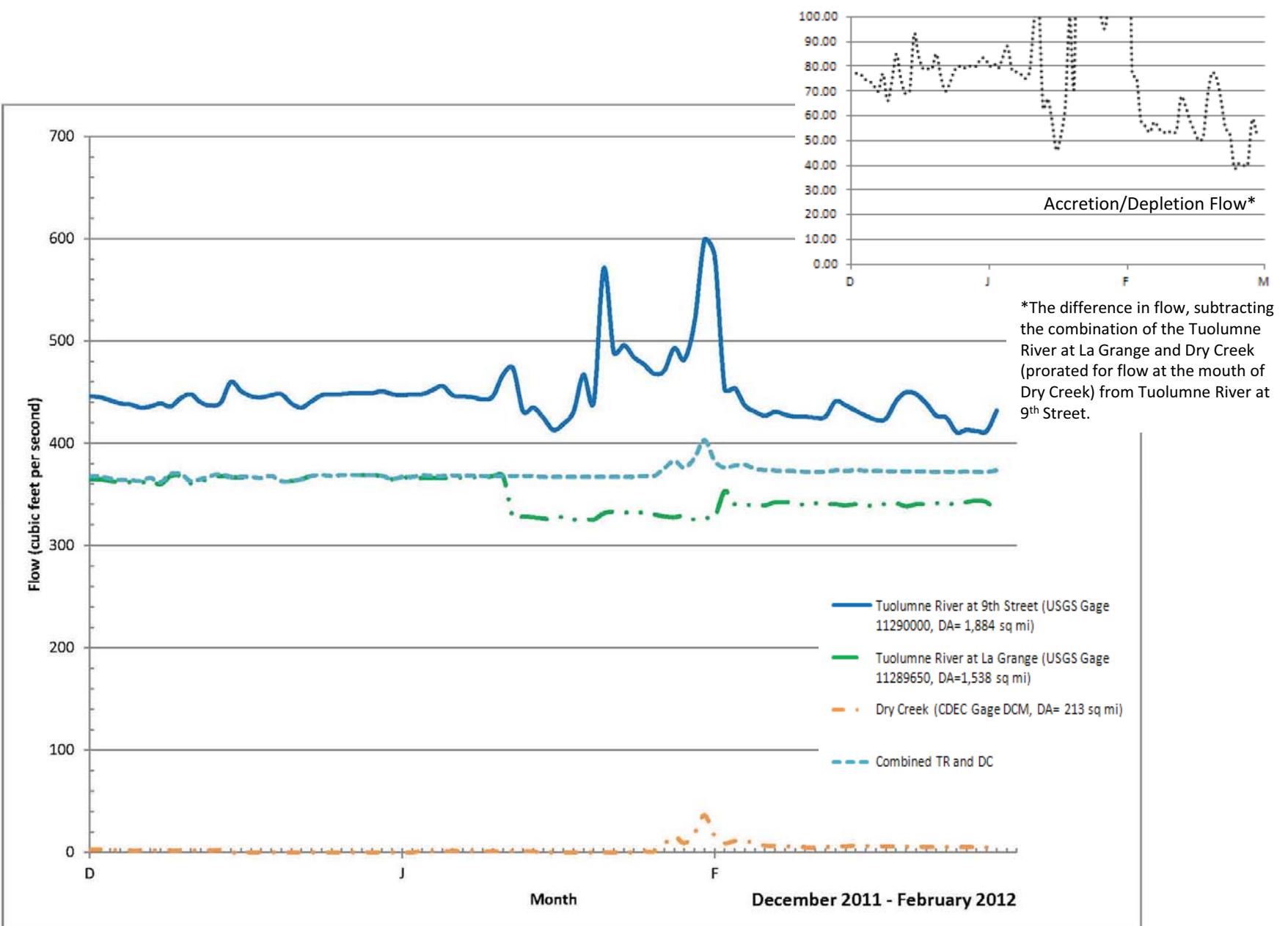












*The difference in flow, subtracting the combination of the Tuolumne River at La Grange and Dry Creek (prorated for flow at the mouth of Dry Creek) from Tuolumne River at 9th Street.

Tuolumne River and Dry Creek Flow Measurements

June 25, 2012

Site	Date	Dry Creek River Mile	Tuolumne River Mile	Time (military)	Field Measurements ^a					Discharge (ft ³ /sec)	Difference between Gage & Measured ^b (%)	
					Measured Discharge (ft ³ /sec)							
					Start	End	Q1 ^c	Q2	Q3	AVG		
Tuolumne River at La Grange gage house	6/25/12	--	51.5	0950	1120	119.2	110.6	--	114.9	114.9	--	
Tuolumne River at La Grange (USGS 11289650) ^d	6/25/12	--	51.5	0945	1130	--	--	--	--	130	12	
Tuolumne River at La Grange (CDEC LGN) ^e	6/25/12	--	51.5	0000	2345	--	--	--	--	94	22	
Tuolumne River at Basso Pool	6/25/12	--	49.1	1325	1440	101.3	103.7	--	102.5	102.5	--	
Tuolumne River at Bobcat Flat	6/25/12	--	43.4	1300	1625	93.3	105.5	99.0	99.2	99.2	--	
Tuolumne River at Roberts Ferry Bridge	6/25/12	--	39.5	1535	1635	128.6	122.4	--	125.5	125.5	--	
Tuolumne River at Santa Fe Aggregates	6/25/12	--	37.1	1720	1830	119.1	126.0	--	122.5	122.5	--	
Waterford Main (MID) ^f	6/25/12	--	33	1800	2000	--	--	--	--	8	--	
Hickman Spill (TID) ^g	6/25/12	--	33	0000	2345	--	--	--	--	0	--	
Tuolumne River at Waterford	6/25/12	--	31.5	1834	1932	122.0	118.5	--	120.2	120.2	--	
Tuolumne River at Delaware Road ^h	6/29/12	--	30.5	1045	1230	138.7	138.1	--	138.4	138.4	--	
Faith Home Spill (TID) ^g	6/25/12	--	20	0000	2345	--	--	--	--	0	--	
Lateral No. 1 (MID) ^f	6/25/12	--	18	1115	1230	--	--	--	--	1	--	
Tuolumne River at Legion Park	6/25/12	--	17.2	1115	1230	169.1	181.6	--	175.4	175.4	--	
Dry Creek (CDEC DCM) ^{g,i}	6/25/12	5.3	16.4	0000	2345	--	--	--	--	38	--	
Dry Creek ^k	6/25/12	0.0	16.4	0915	1015	56.4	54.7	--	55.5	55.5	46 ^k	
Tuolumne River at Modesto 9th St. Bridge	6/25/12	--	16.2	1300	1400	204.2	212.1	--	208.2	208.2	--	
Tuolumne River at Modesto (USGS 11290000) ^d	6/25/12	--	16.2	1300	1400	--	--	--	--	219	5	
Tuolumne River at Modesto (CDEC MOD) ^e	6/25/12	--	16.2	0000	2345	--	--	--	--	216	4	
Lateral 1 (TID) ^g	6/25/12	--	11	0000	2345	--	--	--	--	0	--	
Tuolumne River at Shiloh Bridge	6/25/12	--	3.7	1530	1700	241.3	251.3	--	246.3	246.3	--	
Lateral No. 5 (MID) ^f	6/25/12	--	2	0900	2000	--	--	--	--	26.5	--	

-- not measured or not applicable

Grey is used to highlight inflow locations and flows.

Notes:

^a Measurements collected by Stillwater Sciences using standard methods for collecting data in wadeable streams (Rantz 1982).

^b Percent Difference = $|Q_{\text{measured}}/Q_{\text{gage}}| * 100$, where Q_{measured} is the measured flow and Q_{gage} is the gage flow.

^c Q = flow. Q1, Q2, and Q3 are replicate measurements.

^d Average data for measurement time interval, downloaded from USGS NWIS website: <http://waterdata.usgs.gov/usa/nwis/sw>. Flows reflect a rating curve "shift" retroactively applied by USGS on or about June 28, 2012. The difference between flows reported under the old and new rating curves for that date and time is approximately 30 cfs.

^e Mean daily flow downloaded from CDEC website: <http://cdec.water.ca.gov/selectQuery.html>. Does not reflect La Grange gage's updated rating curve.

^f Average flow for the time interval, provided by MID (Ward, pers. comm. 2012)

^g Daily flow provided by TID (Boyd, pers. comm. 2012)

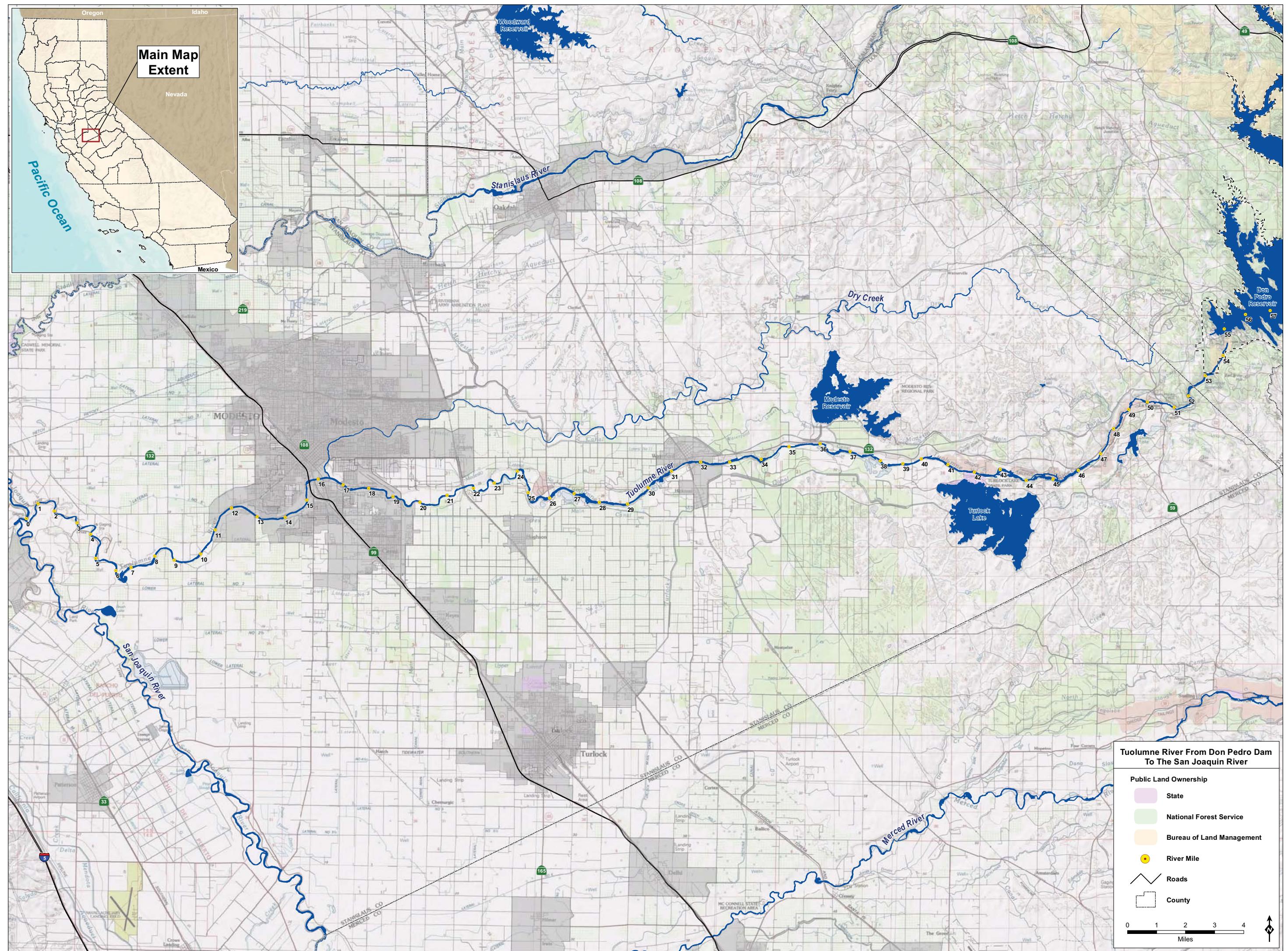
^h In Waterford downstream of Waterford Water Treatment Plant discharge. Data collected later than other sites; however, the temporary stage installed for the co-occurring IFIM study

upstream at the Waterford site (RM 31.5) was within 1/100 ft between the two sample dates, indicating little change in flow between 6/29/12 versus 6/25/12.

ⁱ Dry Creek gage located upstream at Dry Creek RM 5.3 at Claus Rd., Modesto.

^j Measurements taken in Dry Creek at confluence with Tuolumne River.

^k Unlike the other locations, Dry Creek flow measurements were not taken at the gage. This number expresses how much flows increase below the gage. On June 25, flows increased almost 50% below the gage, accounting for 1/3 of the total flow.



From: Staples, Rose
Sent: Thursday, September 20, 2012 6:23 PM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Barnes, James; Barnes, Peter; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeier, Peter; Edmondson, Steve; Eicher, James; Fargo, James; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; Hughes, Robert; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koepele, Patrick; Kordella, Lesley; Lara, Marco; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Looker, Mark; Loy, Carin; Lwanya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne

Subject: Additional Material on Don Pedro Relicensing Website for September 21 Workshop

For those attending or calling in to tomorrow's Don Pedro Relicensing Hydrologic Investigations Workshop, please note that I have just uploaded to the relicensing website (both under INTRODUCTION/ANNOUNCEMENTS and attached to the MEETING date) ten (10) additional graphs. You will want to have these graphs and the material uploaded on September 18th with you tomorrow as these documents will be referenced during the workshop. If you have any problems accessing and/or downloading the information, please do let me know. Thank you.

P.S.: The graphs will be further explained during the workshop, but as a brief introduction, they are:

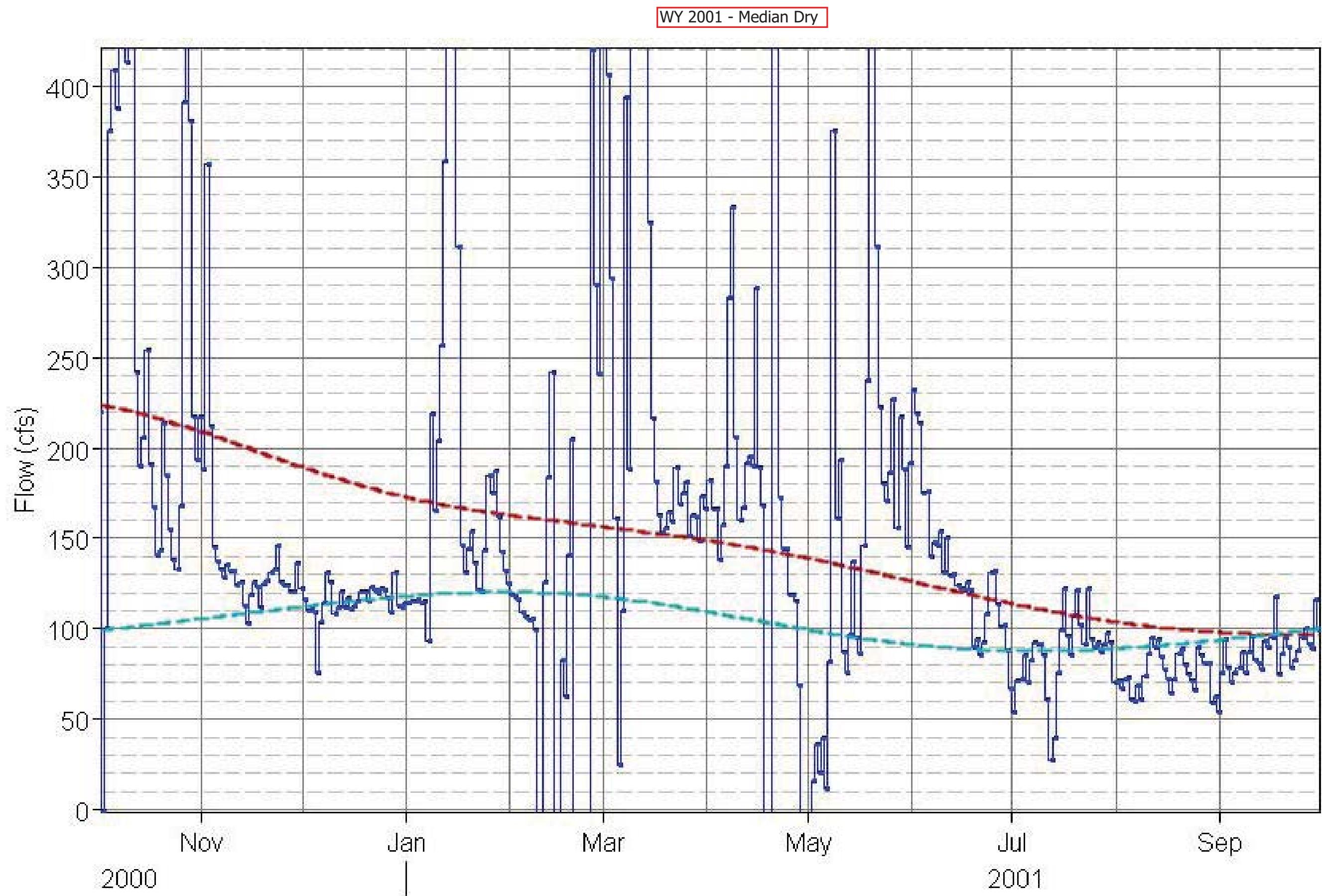
Plots of the lower Tuolumne gage calculation for water years 2001 to 2010. Note the water year type is at the top of each page. The light blue dashed line

is the synthetic dataset (consistent year-to-year), and the dashed dark red line is 1-year Gaussian smoothed gage data.

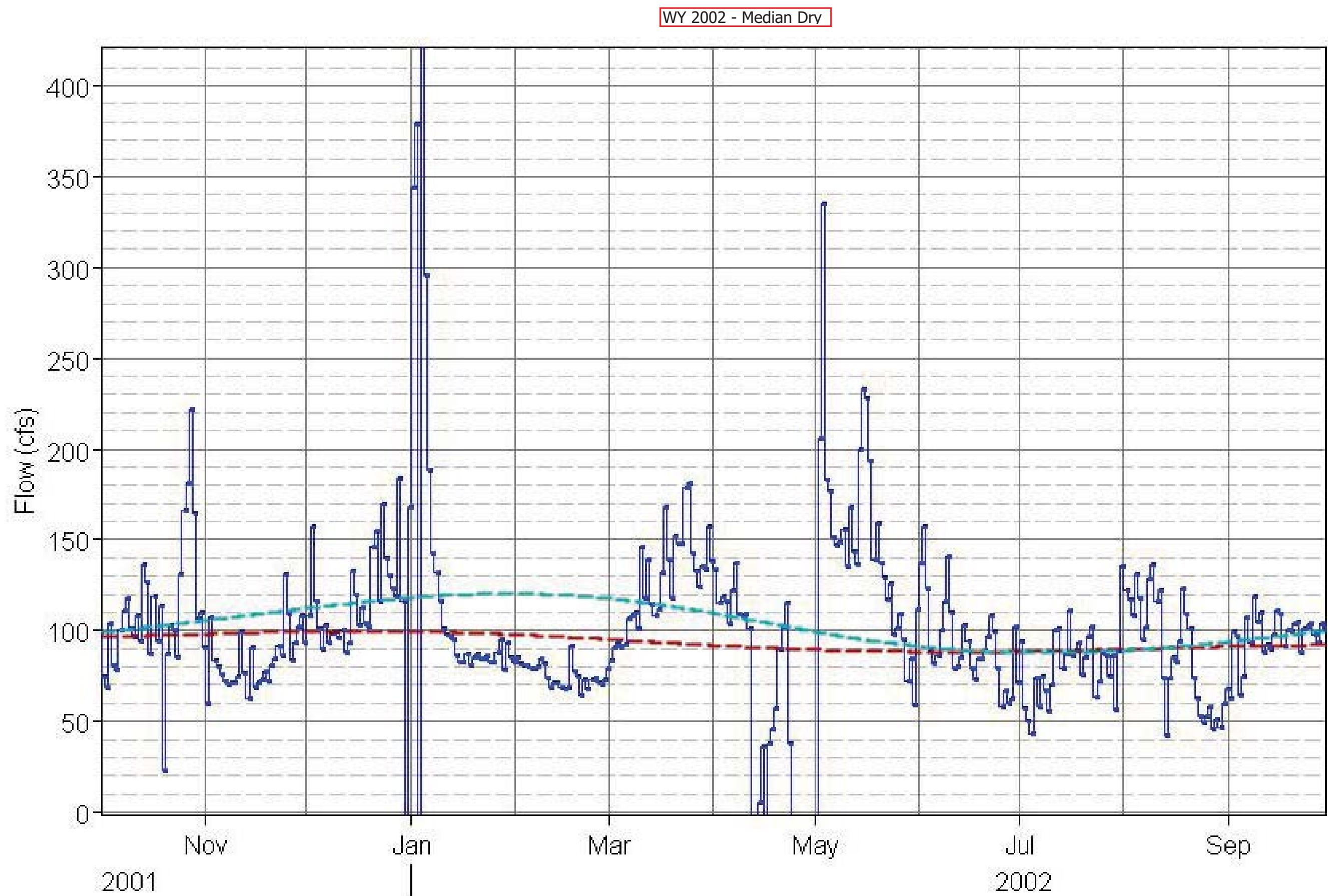
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Executive Assistant, Hydropower Services

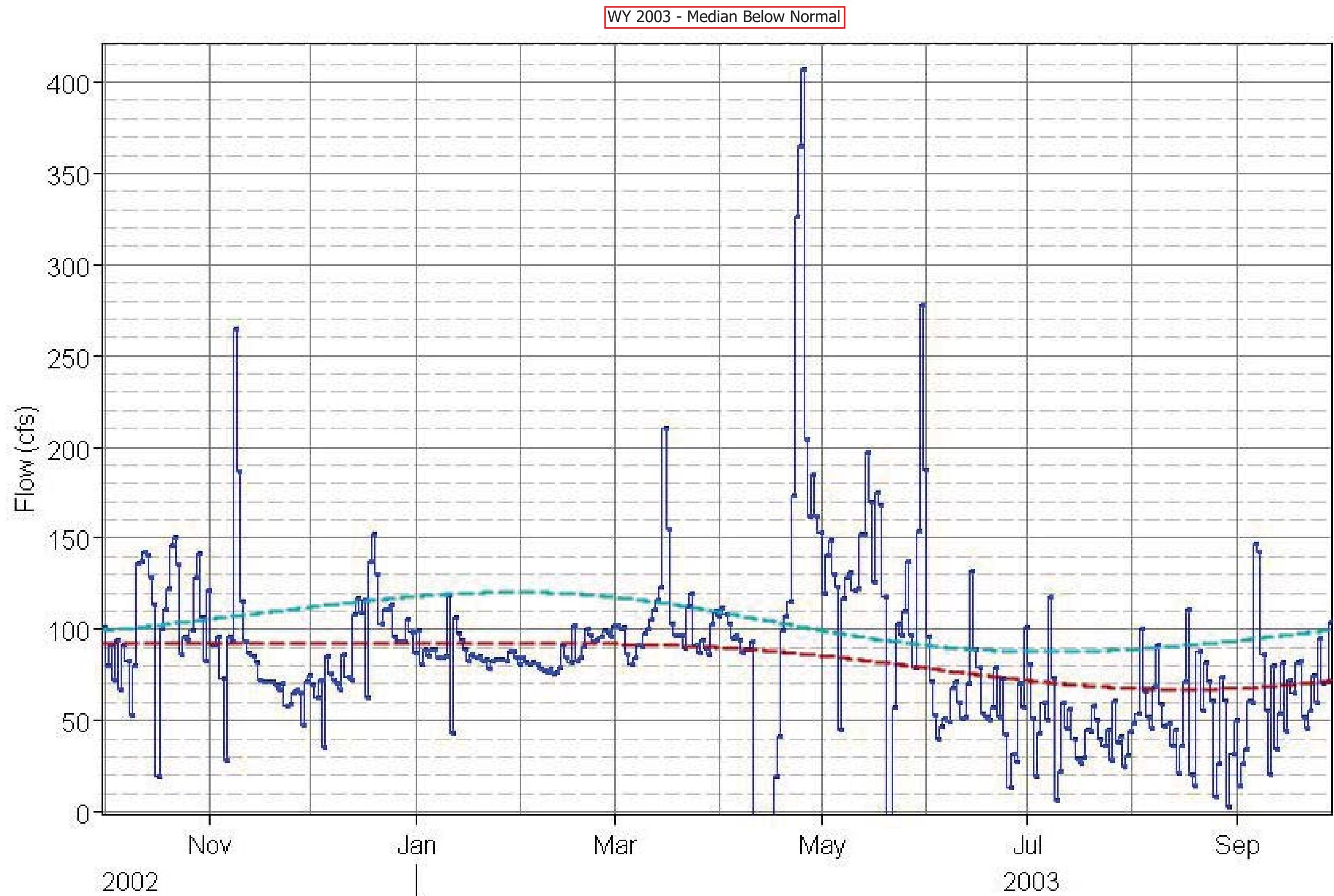
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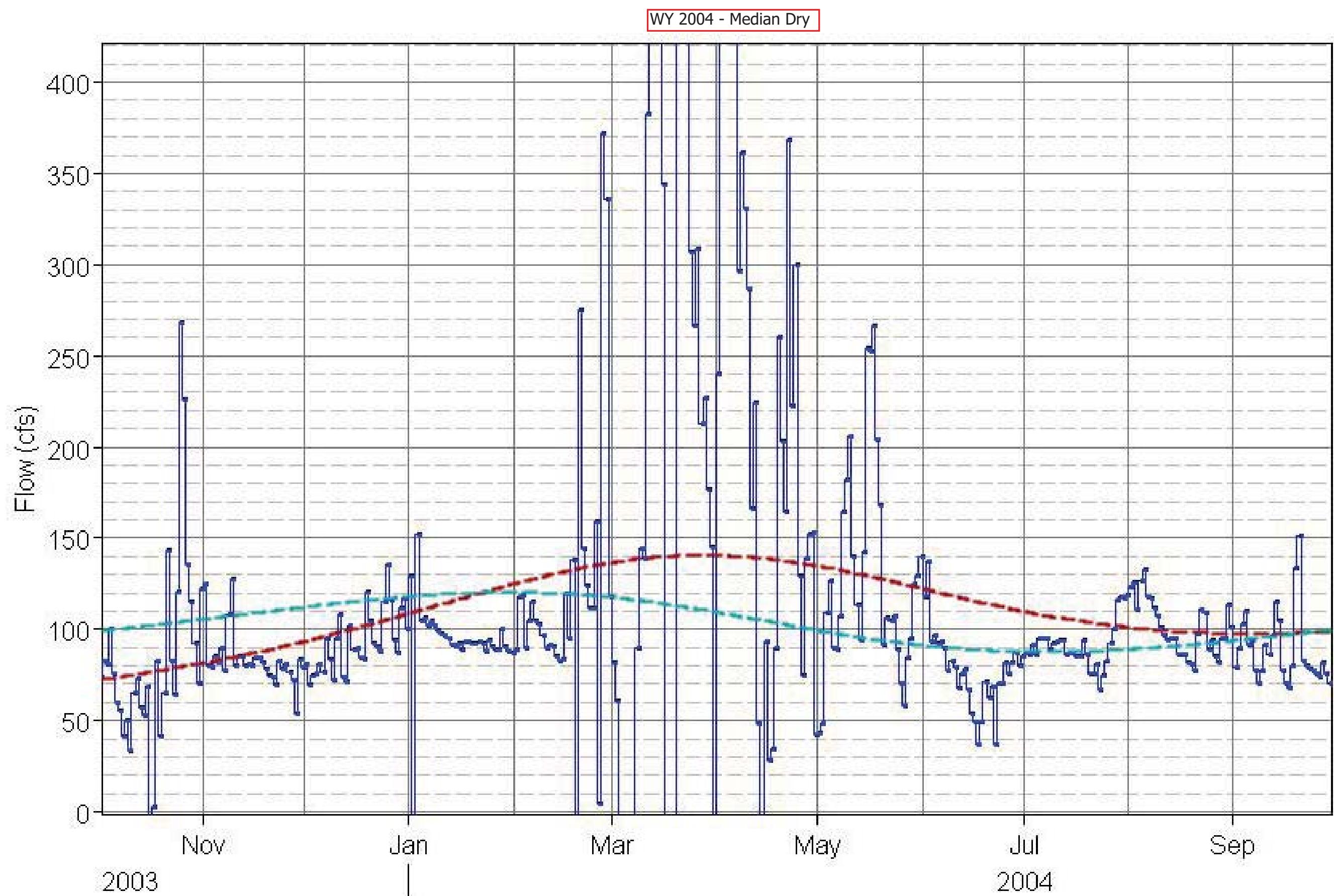
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- - TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- · TUOLUMNE ACCRETION SYNTHETIC FLOW



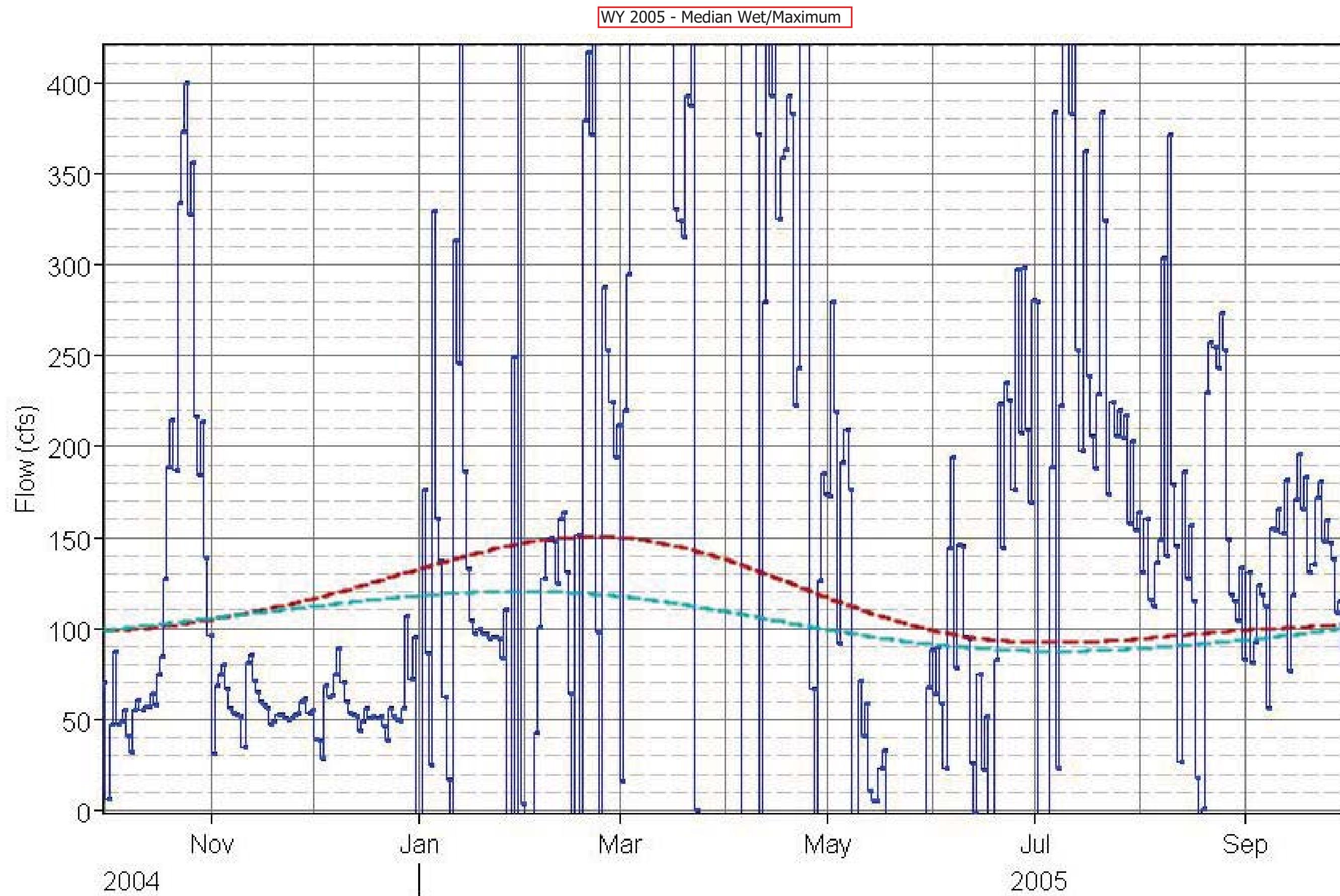
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- - - TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- · - TUOLUMNE ACCRETION SYNTHETIC FLOW



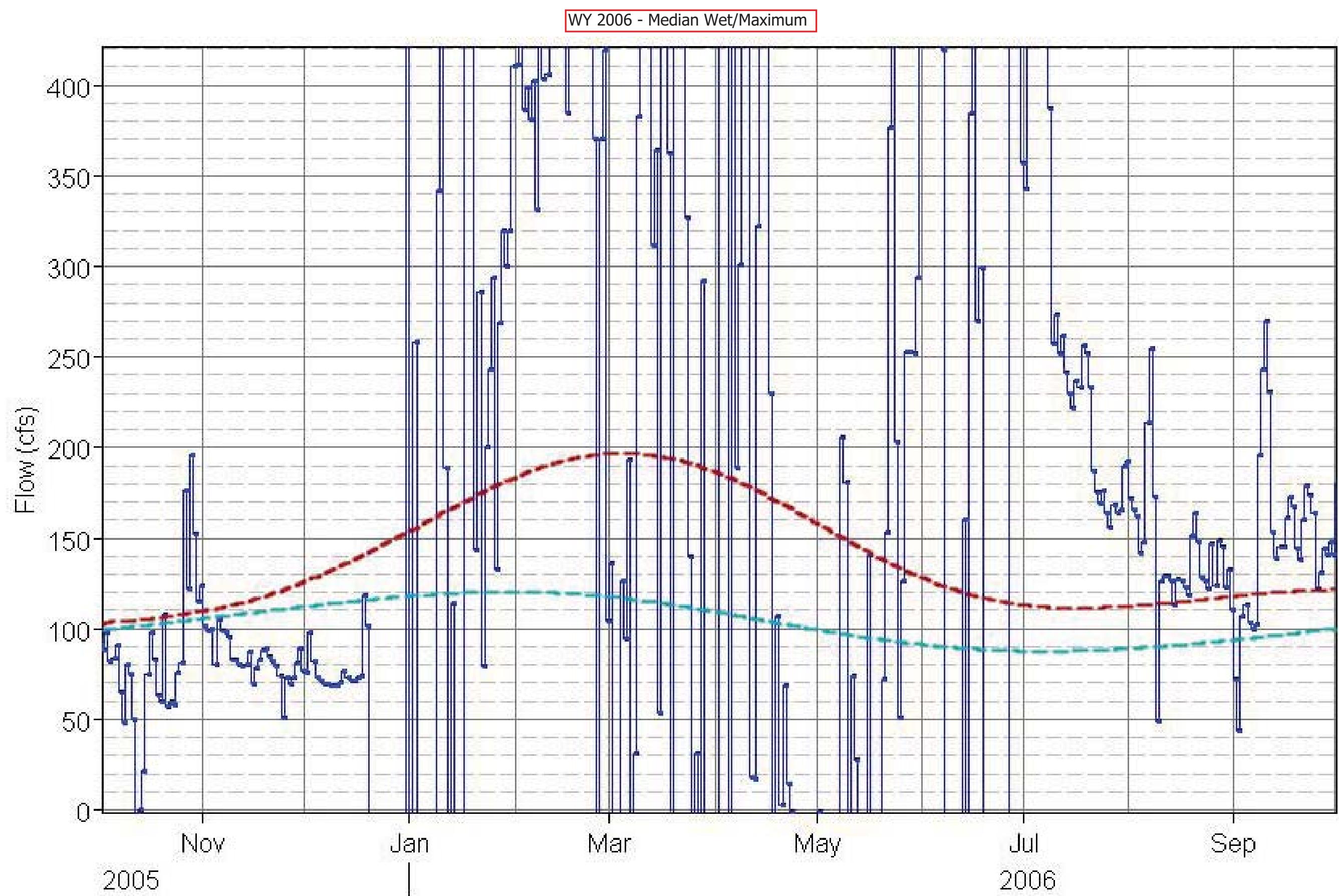
- TUOLUMNE ACCRETION COMPUTED FLOW
- - TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- - TUOLUMNE ACCRETION SYNTHETIC FLOW



- TUOLUMNE ACCRETION COMPUTED FLOW
- - TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- · TUOLUMNE ACCRETION SYNTHETIC FLOW



- TUOLUMNE ACCRETION COMPUTED FLOW
- TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- TUOLUMNE ACCRETION SYNTHETIC FLOW



- TUOLUMNE ACCRETION COMPUTED FLOW
- TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- TUOLUMNE ACCRETION SYNTHETIC FLOW

From: Staples, Rose
Sent: Friday, September 21, 2012 10:30 AM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Barnes, James; Barnes, Peter; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeier, Peter; Edmondson, Steve; Eicher, James; Fargo, James; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; Hughes, Robert; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jauregui, Julia; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koeppele, Patrick; Kordella, Lesley; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Looker, Mark; Loy, Carin; Lwanya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne

Subject: Additional Document Posted to Don Pedro Relicensing Website for Today's Workshop

I have just posted to the Don Pedro Relicensing Website (Under INTRODUCTION/ANNOUNCEMENTS and attached to the MEETING calendar date) an additional document (data table) for reference during today's Don Pedro Relicensing Hydrologic Investigations Workshop. If you have any difficulty accessing and/or downloading the document file, please let me know. Thank you.

ROSE STAPLES
CAP-OM

HDR Engineering, Inc.
Executive Assistant, Hydropower Services

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207.239.3857 | f: 207.775.1742
rose.staples@hdrinc.com | [hdrinc.com](http://www.hdrinc.com)

Data Table for the Don Pedro Project

As of 20120920

Station Name	Parameter (Subject)	Time Series				Source	Start MM/DD/YYYY	END MM/DD/YYYY
		Parameter Description	Unit of Measure	Type of Data or Reading	Time Step			
*****	*****	*****	*****	*****	*****	*****	*****	*****
La Grange Powerhouse								
La Grange Power House	Unit 1 Generation	Energy	MW	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
La Grange Power House	Unit 2 Generation	Energy	MW	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
La Grange Power House	Total Gen	Energy	(KWh ⁻¹)xDay ⁻¹	Integration	Daily	TID EMS	01/01/1990	12/31/2011
La Grange Power House	Release Volume	Volume	AFxDay ⁻¹	Calculation	Daily	TID EMS	01/01/1990	12/31/2011
La Grange Power House	Release Flow	Flow/Discharge	(CFS)xDay ⁻¹	Calculation	Daily	TID EMS	01/01/1990	12/31/2011
La Grange Sluice Gates	Gate 1 Opening	Percentage	%	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
La Grange Sluice Gates	Gate 2 Opening	Percentage	%	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
Tuolumne River At La Grange								
Tuolumne River La Grange	River Depth	Stage/Gage Height	feet	Instantaneous	15 Minutes	TID Records	1997	04/2012
Tuolumne River La Grange	River Depth-Sea Level Reference	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Tuolumne River La Grange	River Depth-Sea Level Reference	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
Tuolumne River La Grange	River Depth-Sea Level Reference	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005

Data Table for the Don Pedro Project

As of 20120920

Station Name	Parameter (Subject)	Time Series				Source	Start MM/DD/YYYY	END MM/DD/YYYY
		Parameter Description	Unit of Measure	Type of Data or Reading	Time Step			
*****	*****	*****	*****	*****	*****	*****	*****	*****
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Daily Average	Daily	Final USGS	10/01/1979	09/30/2010
TID Main Canal At La Grange								
TID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
TID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
TID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
TID Canal	Release Flow	Delivered amount	(CFS)	Daily Average	Daily	Final USGS	10/01/1979	09/30/2010
MID Main Canal At La Grange								
MID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
MID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
MID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
MID Canal	Release Flow	Delivered amount	(CFS)	Daily Average	Daily	Final USGS	10/01/1979	09/30/2010
Don Pedro Reservoir								
Don Pedro	Reservoir Elevation	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Don Pedro	Reservoir Elevation	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
Don Pedro	Reservoir Elevation	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
Don Pedro	Reservoir Storage	Volume	AF	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Don Pedro	Reservoir Storage	Volume	AF	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
Don Pedro	Reservoir Storage	Volume	AF	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011

From: Staples, Rose
Sent: Monday, October 22, 2012 7:51 PM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Barnes, James; Barnes, Peter; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeier, Peter; Edmondson, Steve; Eicher, James; Fargo, James; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; Hughes, Robert; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jauregui, Julia; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koeppele, Patrick; Kordella, Lesley; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Loy, Carin; Lwanya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne

Subject: Don Pedro Sept 2012 Hydrologic Investigations Workshop Draft Notes for Review
Attachments: [DonPedro_HydrologicInvestigationsWorkshop_20121022_Draft Notes.pdf](#)

Attached please find the DRAFT Meeting Notes from the Don Pedro Project Relicensing *Hydrologic Investigations Workshop* held on September 21, 2012.

I have not included the meeting materials provided for meeting discussion, but if you would like to review, the documents can be found as attachments to the September 21st meeting date on the Don Pedro relicensing website calendar (www.donpedro-relicensing.com / MEETINGS tab / click on Meetings Calendar, then use the left arrow to back up one month to September); or they can be found as attachments to the September 18, 20, and 21 Announcements under the INTRODUCTION tab—click on “(more announcements)” to see these older announcements.

Please provide any comments on the draft workshop notes to me at rose.staples@hdrinc.com by no later than Wednesday, November 21. Thank you.

ROSE STAPLES
CAP-OM

HDR Engineering, Inc.
Executive Assistant, Hydropower Services

970 Baxter Boulevard, Suite 301 | Portland, ME 04103

Don Pedro Project Relicensing
Hydrologic Investigations Workshop
Draft Meeting Notes

Friday, September 21, 2012
9:00 a.m. to 1:00 p.m.

Attendees

John Devine (HDR)	Zac Jackson (USFWS)
Jenna Borovansky (HDR)	Bob Hughes (DFG)
Jenn Gagnon (HDR)	Art Godwin (TID)
Bob Hackamack	Bob Nees (TID)
John Buckley (CSERC)	Steve Boyd (TID)
Chris Shutes (CSPA)	Bill Johnston (MID)
Patrick Koepele (TRT)	Bill Paris (MID)
Ramon Martin (USFWS)	Joy Warren (MID)
Peter Barnes (SWRCB)	Greg Dias (MID)
<i>Attended via phone:</i>	
Annie Manji (CFG)	Annee Ferranti (CDFG)
Bill Sears (CCSF)	Donn Furman (CCSF)
Russ Liebig (Stillwater Sciences)	John Wooster (NMFS)
Jim Fargo (FERC)	Gretchen Murphy (CDFG)
Jim Alves (City of Modesto)	Ellen Levin (CCSF)
Tim Findley (Bay Area)	Richard Roos-Collins – partial online
Tim Heyne (CDFG) – partial online	

Purpose of Meeting

The Hydrologic Investigations Workshop was held to discuss with the Don Pedro Relicensing Participants the following items:

- 1) Review of accretion flow measurements conducted on June 25, 2012 (results provided to Relicensing Participants July 26, 2012)
- 2) Path forward related to additional accretion flow measurements
- 3) Hydrologic analysis the Districts are planning in accordance with FERC's Study Plan Determination and Dispute Resolution
- 4) Available Streamflow Data Records/Sources confirmed by the Districts

Meeting Materials

Materials provided to Relicensing Participants to support the meeting discussion:

- Meeting Agenda
- Map of the Tuolumne River from Don Pedro Lake to San Joaquin River
- Accretion/Depletion Measurement Locations Memo (Posted June 6, 2012)
- June 25 Flow Measurements Summary (Posted July 26, 2012)
- Lower Tuolumne River summer and winter flow trend plots for Water Years 2007 – 2011
- Lower Tuolumne Gage Calculation plots for Water Years 2001-2010

Meeting Notes

The purpose of the accretion flow measurements and the gage trend plots (discussed below) are to investigate where changes in flow occur in the lower Tuolumne River between La Grange and Modesto, quantify the flow change, and begin to identify potential locations for flow nodes in the Project Operations Model.

Accretion Flow Measurements Discussion

John Devine summarized the results of the June 25, 2012 field measurements:

- Study methods are described in the June 6 memo to relicensing participants. Efforts were made by the Districts to keep operational outflows to a minimum so measurements would reflect only accretions due to groundwater inflows.
- Accretion measurements map and table were discussed, walking through each measurement location.
- USGS conducted flow measurements at the USGS' La Grange gage the day before accretion field measurements, USGS decided a shift change was necessary based on the USGS gage measurements. Therefore, the USGS gage data reported in the table reflect this shift change.
- The June 25, 2012 field accretion flow measurements used the same flow measurement standards as the USGS.
 - The flow measurements have good consistency for measurements from cross section to cross section
 - The same team was used to conduct the measurements on the same day, with a systematic approach
 - Some difference between gage records and field measurements can be expected. USGS gage records are daily while the field measurements are instantaneous
 - The far right column in data table of accretion measurements compares the measured flows to the recorded gage readings

- It was agreed that additional field measurements would provide useful information; the June measurements are illustrative of conditions and were used to discuss additional measurement locations and information needs with relicensing participants.
- Based on a SWRCB April 1989 report, there are few identified pumping withdrawal points within the lower Tuolumne River reach. Depletions due to irrigation pumping do not appear to play a role in the area where the field measurements were taken.
- Participants reviewed measurements throughout the river and discussed the available data and potential influences on river flows in the reaches where changes in flow were observed.
- John Devine summarized the information gained from the accretion measurements:
 - The lower Tuolumne River is an accreting river
 - The data are showing zones of accretion which appear consistent with potential groundwater source areas (cross-referenced the USGS Scientific Investigations Report 2004-5232 entitled *Hydrogeologic Characterization of the Modesto Area*)
- After review of the June measurements and discussion with relicensing participants, the Districts agreed to perform accretion measurements (to be collected in early October) at the following locations:
 - All locations sampled during June 2012 will be revisited
 - Somewhere between RM 46 and 49: to target potential depletion/recharge area, final location to be based on accessibility
 - *Patrick Koeppe to provide document indicating potential groundwater influence to assist in choosing location*
 - Somewhere between RM 25 and 26: to provide additional information on conditions between RM 30.5 and RM 17 stations.
 - Approximately RM 10: to provide additional information on conditions between the gage at RM 16 and RM 3.7 station
 - Dry Creek gage (field measurement to check accuracy of gage)
 - Approximately RM 2 on Dry Creek
- If conditions allow, the Districts will target measurements during a dry period in January-February 2013.

Additional information requested by relicensing participants during discussion of accretion measurements is summarized in the action items at the end of these notes.

Flow Trend Plots

John Devine reviewed preliminary information regarding available gage data, and potential methods of estimating annual flow inputs at locations where relicensing participants have requested modeling nodes, but where gages do not exist to provide long term records. This preliminary information and how it could be used was discussed with relicensing participants.

HDR will provide a background technical memo to explain the flow plots discussed during the meeting. The purpose of the Lower Tuolumne accretion flow estimates and Dry Creek gage synthesis is to attempt to address the Relicensing Participants questions of where flow nodes could be located in the Project Operations Model, and whether the Dry Creek information can be useful. Information contained in the plots includes:

- The plots demonstrate that during dry periods there appears to be a seasonal pattern of consistent base flow.
- Components of the Dry Creek synthetic gage estimates are base flow, supported by groundwater accretions, and a natural flow component.
- The mathematical difference between the Modesto gage and the sum of the Dry Creek and La Grange gages was reviewed to begin to identify accretion flows in the lower Tuolumne River. These data demonstrate that this approach does not provide a reasonably consistent estimate of accretion flows.
- The data were further investigated using two Gaussian-smoothing functions and then reviewed for monthly trends of base flow component; the “smoothed” plots appear to indicate seasonal components to flow.
- The field accretion measurements are being collected to try to come to a common understanding of the lower Tuolumne River where there are no established gages and provide additional information to supplement flow trends analysis. The approach is to use the combination of the field measurements and the gage synthesis to develop a reasonable representation of accretion flows to the lower Tuolumne River.

The “smoothed” plots are a way to develop flow quantities and locations on the Tuolumne River between La Grange and Modesto. The flow measurements, taken at locations where there are no established gages, are a way to identify where specific zones of accretion flows are occurring.

In past comments, relicensing participants have expressed interest in identifying operation model node locations at Roberts Ferry Bridge, above Dry Creek, Shiloh, and the infiltration gallery. To be meaningful in the model, the nodes must be located to reflect change in hydrology. Accretion measurements provide an idea of where the change in flow is occurring. Future October and January measurements will provide opportunity to observe patterns (consistent base flow, seasonal trends). The data sources available are gage records and these accretion measurements.

The trend plots are not the only way to estimate the necessary information. Relicensing participants were asked to provide additional ideas on methods by which the desired information for the additional modeling nodes may be derived. John Devine emphasized that the information was being shared in preliminary form in order to share the status of information development and gather feedback. The districts emphasized that they would welcome other ideas to addressing this issue.

Hydrologic Analysis Previously Requested by Relicensing Participants

The goal of this agenda item was to review prior data requests from relicensing participants, as summarized on the agenda, and to develop a common understanding of the exact analyses to be conducted.

Available Data

A table of all available data sources was posted to the relicensing website, and is attached to these meeting notes.

Additional discussion on streamflow data:

- For La Grange gage location -- Districts have 15-minute stage data, will contact USGS for 15-minute flow data or use gage rating to calculate flow if unavailable.
- The Districts have hourly La Grange powerhouse release data.
- The Districts were requested to provide general description of the range of operation of the La Grange pool; Districts will provide the La Grange pool headwater duration curve.

Statistical analysis to be conducted for existing project conditions

The agenda summarized the statistical analysis to be conducted:

- a) Average, maximum and minimum monthly flows for 1971- 2009, 1996-2009, and by water year type
- b) Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type
- c) Average annual flows for 1971-2009 and 1996-2009
- d) 1-3, and 7-day maximum mean daily flow for each year of 1971-2009
- e) 1-3, and 7-day minimum mean daily flows for each year of 1971-2009
- f) Julian date and magnitude of annual maximum and minimum

Discussion and confirmation of the above analyses are summarized below:

- Relicensing Participants agreed that the two time periods (1971-2009 and 1996-2009) were sufficient, but that analysis should be extended to 2011.
- The average annual flows for the two time periods are available in the PAD.
 - When the operations models are run, the output will include this data
- It was acknowledged that the Districts may not have full 100 points for exceedance when different time periods are run.
- Relicensing participants agreed on a moving average (for 1, 3, 7 day max/min mean daily flows 1971-2011).
 - The moving values will be averaged, and the analysis will report max/min/ mean daily flow value of the mean daily flows for each year
 - Relicensing participants requested data output as exceedance plots instead of time series

Watershed locations for statistical analysis

The agenda summarized the statistical analysis to be conducted:

- a) Tuolumne River, inflow to Don Pedro Reservoir
- b) Tuolumne River just above La Grange Dam
- c) Turlock Canal near La Grange CA (USGS gage)
- d) Modesto Canal near La Grange CA (USGS gage)
- e) Tuolumne River below La Grange Dam near La Grange CA (USGS gage)
- f) Dry Creek at Modesto (CDWR gage)
- g) Tuolumne River at Modesto CA (USGS gage)

Discussion and confirmation of the above locations are summarized below:

- Relicensing participants agreed with the identified locations.
- For the inflow to Don Pedro Reservoir, relicensing participants requested that it be reported as regulated and unregulated inflow. It was explained that in the operations model, Don Pedro inflows are divided into the two actual components (a regulated portion from CCSF facilities and an unregulated component).
- In the previous hydrology discussions the Districts provided a schematic of the CCSF and Districts facilities; relicensing participants requested information on which elements of the schematic would be provided in the operations model. The October meeting on WAR-2 will include this discussion. The model combines the outflows from O'Shaughnessey and outflows from Eleanor/Cherry into a single node, model users can adjust value of flow at this node.

Other hydrologic analyses to be conducted needing further clarification

John Devine requested discussion and clarification from relicensing participants regarding the following analyses requested by the National Marine Fisheries Service, and summarized on the agenda as:

- Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California.
- Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records.

Discussion and confirmation of the requested information is summarized below:

Peak flow analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations using USGS Regional skew for California. The data processing clarifications at the meeting are summarized below:

- The outflow of La Grange diversion dam is recorded at the La Grange gage.
- The Relicensing Participants want log-Pearson type III flood flow analysis based on both USGS Regional skew and USGS analysis to bump daily measurements. (*John Wooster to provide the 2011 Report referenced regarding USGS analysis to bump daily to instantaneous – this has been provided.*)

Rate of Stage Change analysis using the Tuolumne River below La Grange Dam near La Grange gage for 1971-2009 using 15-minute gage records. Discussion included the following clarifications:

- Request based on desire for results to provide relicensing participants an indication of how quickly flow changes occur.
- The Districts use Real-time USGS data currently to ensure flow change rate compliance per the FERC license.
- Relicensing Participants questioned whether the existing condition in License Article 38 rate of stage change component could be analyzed. Districts did not believe it could be analyzed, but will reevaluate this.
- Article 38: fluctuation in stage to daily period (45 day, November 5 – December 20) spawning issue; stage change is limited.
- John Wooster has 4 years of La Grange gage stage data, will run analysis and identify desired tabular ranges (“bins”) for these analyses.

- Tabular measure of stage change – bins will be picked for histogram depending on the range of population (suggested initial 10-15 bins).
- Rolling hour, 15-minute increments is preferred.
- A monthly basis analysis is of most importance, but an additional plot for annual will be included.

La Grange project data analysis (regarding the flow through the different conduits, per Relicensing Participants request Element 2 in Study Plan Request)

- There is not enough data to split flow to various conduits (no records on Modesto or long term records on TID gates).
 - Districts will supply hourly flow data records for the powerhouse and flow in MID and TID canals and gage data downstream of La Grange Dam to satisfy this request; relicensing participants agreed since data is not available

Additional Items

Bob Hughes noted for the record that CDF&G's participation in the meeting does not change positions expressed in comments recently filed with the SWRB regarding the methods used to calculate unimpaired inflow to Don Pedro.

Relicensing participants requested that the Districts provide an update on the schedule for completion of the Lower Tuolumne River instream flow study being undertaken as part of the July 2009 FERC Order on Rehearing. (*Response: Draft report is scheduled to be issued for review in early February, 2013.*)

Action Items

All items are for the Districts team, except those with ***bold italic***.

- 1) The Districts will provide the following information, where available, for the time period(s) during the June 25, 2012 accretion flow measurements:
 - Modesto and Turlock Lake elevations;
 - Determine whether discharge occurred from the City of Waterford Treatment Plant on June 25;
 - Canal records of irrigation delivery (the Districts can report diversions from La Grange reservoir on June 25);
 - Confirm the discharge records for MID's Lateral #5. (i.e., was the flow of 26.5 cfs provided in the July 26 report the amount at the time of the flow measurement [circa

1700 hours] or was it average daily; confirm that it was the actual amount of spill and not the flow in the canal).

- 2) The Districts will estimate an average accretion per mile for each reach and add it to the table.
- 3) The Districts plan to conduct two additional field accretion measurements as described below:
 - o Two additional events to capture additional flow conditions:
 - 1st week in October to target low-irrigation season and before beginning of fall/winter rains and with river flows at approximately 150 cfs;
 - Early 2013 (January-February) targeting a time with no/minimal irrigation deliveries and very low precipitation, if possible.
 - o All locations sampled during June 2012 will be revisited, with the following additional sites (exact locations may vary due to access and field conditions):
 - ***Patrick Koepele to provide document indicating potential groundwater influence to assist in choosing location.***
 - o Somewhere between RM 46 and 49 to target potential depletion/recharge area, final location to be based on accessibility
 - o Somewhere between RM 25 and 26 to provide additional information on conditions between RM 30.5 and RM 17 stations.
 - o Approximately RM 10 to provide additional information on conditions between the gage at RM 16 and RM 3.7 station.
 - o Dry Creek gage (field measurement to check accuracy of gage)
 - o Approximately RM 2 on Dry Creek
- 4) The Districts will identify locations of operational spills to Dry Creek.
- 5) The Districts will check with CDEC on the reliability of Dry Creek gage DCM.
- 6) The Districts will provide the normal operating range for the La Grange Reservoir.
- 7) The Districts will provide a technical memo to describe the preliminary development of the accretion flows into the Tuolumne River between La Grange gage and Dry Creek and a synthesized flow record for Dry Creek as discussed in the meeting. Additional information

- will be provided regarding the components of flow being estimated, and the potential use of the information in the operations model.
- 8) The Districts will provide data analysis and statistics as described in the meeting notes in response to relicensing participant's data requests.
 - 9) ***John Wooster will send HDR and the Districts the 2011 USGS report referenced during meeting regarding USGS analysis method to convert daily flow to instantaneous. (This was completed.)***
 - 10) ***John Wooster to provide the Districts with additional information on suggested flow categories for the rate of stage change data analysis (i.e., the number of “bins” for the histograms).***
 - 11) The Districts will provide relicensing participants with an update regarding the status of Lower Tuolumne River IFIM study. (*Response: Draft report is scheduled to be issued for review in early February, 2013.*)

Attachments

- Agenda.
- The meeting PowerPoint presentation and materials provided prior to the meeting are posted on the Don Pedro relicensing web-site.

From: Staples, Rose
Sent: Tuesday, October 23, 2012 3:26 PM
To: 'Alves, Jim'; 'Anderson, Craig'; 'Asay, Lynette'; 'Barnes, James'; 'Barnes, Peter'; 'Beniamine Beronia'; 'Blake, Martin'; 'Bond, Jack'; Borovansky, Jenna; 'Boucher, Allison'; 'Bowes, Stephen'; 'Bowman, Art'; 'Brenneman, Beth'; 'Brewer, Doug'; 'Buckley, John'; 'Buckley, Mark'; 'Burt, Charles'; 'Byrd, Tim'; 'Cadagan, Jerry'; 'Carlin, Michael'; 'Charles, Cindy'; 'Colvin, Tim'; 'Costa, Jan'; 'Cowan, Jeffrey'; 'Cox, Stanley Rob'; 'Cranston, Peggy'; 'Cremeen, Rebecca'; 'Damin Nicole'; 'Day, Kevin'; 'Day, P'; 'Denean'; 'Derwin, Maryann Moise'; Devine, John; 'Donaldson, Milford Wayne'; 'Dowd, Maggie'; 'Drekmeier, Peter'; 'Edmondson, Steve'; 'Eicher, James'; 'Fargo, James'; 'Ferranti, Annee'; 'Ferrari, Chandra'; 'Fety, Lauren'; 'Findley, Timothy'; 'Fuller, Reba'; 'Furman, Donn W'; 'Ganteinbein, Julie'; 'Giglio, Deborah'; 'Gorman, Elaine'; 'Grader, Zeke'; 'Gutierrez, Monica'; 'Hackamack, Robert'; 'Hastreiter, James'; 'Hatch, Jenny'; 'Hayat, Zahra'; 'Hayden, Ann'; 'Hellam, Anita'; 'Heyne, Tim'; 'Holley, Thomas'; 'Holm, Lisa'; 'Horn, Jeff'; 'Horn, Timi'; 'Hudelson, Bill'; 'Hughes, Noah'; 'Hughes, Robert'; 'Hume, Noah'; 'Jackman, Jerry'; 'Jackson, Zac'; 'Jauregui, Julia'; 'Jennings, William'; 'Jensen, Art'; 'Jensen, Laura'; 'Johannis, Mary'; 'Johnson, Brian'; 'Justin'; 'Keating, Janice'; 'Kempton, Kathryn'; 'Kinney, Teresa'; 'Koepele, Patrick'; 'Kordella, Lesley'; 'Lein, Joseph'; 'Levin, Ellen'; 'Lewis, Reggie'; 'Linkard, David'; 'Loy, Carin'; 'Lwenya, Roselynn'; 'Lyons, Bill'; 'Madden, Dan'; 'Manji, Annie'; 'Marko, Paul'; 'Marshall, Mike'; 'Martin, Michael'; 'Martin, Ramon'; 'Mathiesen, Lloyd'; 'McDaniel, Dan'; 'McDevitt, Ray'; 'McDonnell, Marty'; 'McLain, Jeffrey'; 'Mein Janis'; 'Mills, John'; 'Minami Amber'; 'Monheit, Susan'; 'Morningstar Pope, Rhonda'; 'Motola, Mary'; 'Murphey, Gretchen'; 'O'Brien, Jennifer'; 'Orvis, Tom'; 'Ott, Bob'; 'Ott, Chris'; 'Paul, Duane'; 'Pavich, Steve'; 'Pinhey, Nick'; 'Pool, Richard'; 'Porter, Ruth'; 'Powell, Melissa'; 'Puccini, Stephen'; 'Raeder, Jessie'; 'Ramirez, Tim'; 'Rea, Maria'; 'Reed, Rhonda'; 'Richardson, Kevin'; 'Ridenour, Jim'; 'Robbins, Royal'; 'Romano, David O'; 'Roos-Collins, Richard'; 'Roseman, Jesse'; 'Rothert, Steve'; 'Sandkulla, Nicole'; 'Saunders, Jenan'; 'Schutte, Allison'; 'Sears, William'; 'Shakal, Sarah'; 'Shipley, Robert'; 'Shumway, Vern'; 'Shutes, Chris'; 'Sill, Todd'; 'Slay, Ron'; 'Smith, Jim'; Staples, Rose; 'Steindorf, Dave'; 'Steiner, Dan'; 'Stone, Vicki'; 'Stork, Ron'; 'Stratton, Susan'; 'Taylor, Mary Jane'; 'Terpstra, Thomas'; 'TeVelde, George'; 'Thompson, Larry'; 'Vasquez, Sandy'; 'Verkuil, Colette'; 'Vierra, Chris'; 'Wantuck, Richard'; 'Welch, Steve'; 'Wesselman, Eric'; 'Wheeler, Dan'; 'Wheeler, Dave'; 'Wheeler, Douglas'; 'Wilcox, Scott'; 'Williamson, Harry'; 'Willy, Allison'; 'Wilson, Bryan'; 'Winchell, Frank'; 'Wooster, John'; 'Workman, Michelle'; 'Yoshiyama, Ron'; 'Zipser, Wayne'

Subject: Don Pedro Workshops PPT Presentations

We have uploaded today to the www.donpedro-relicensing.com website (under the MEETINGS Tab / Meetings Calendar / September 21 and October 26 Calendar Dates) the following:

September 21

The PowerPoint presentation used in the September 21 Hydrologic Investigations Workshop

October 26

The two PowerPoint presentations to be used at the October 26 Don Pedro Reservoir and Lower Tuolumne River Temperature Models Workshops

If you have any problems accessing/downloading these documents, please let me know.

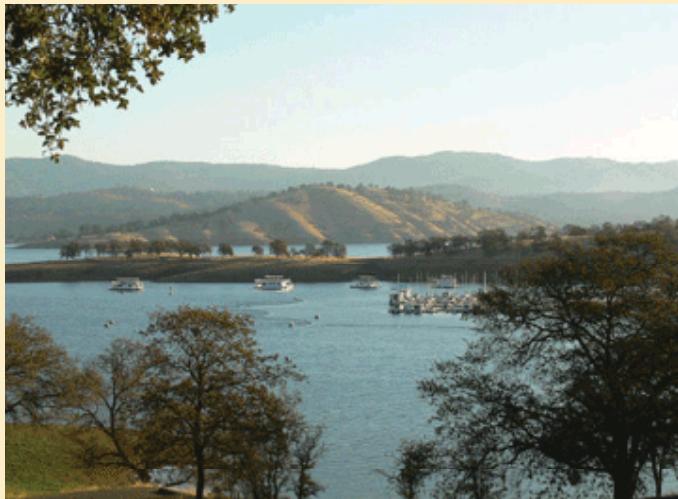
ROSE STAPLES

Don Pedro Project Relicensing

Hydrologic Investigations Workshop

September 21, 2012

MODESTO IRRIGATION DISTRICT | TURLOCK IRRIGATION DISTRICT



**FERC
PROJECT
No. 2299**





AGENDA



9:00 a.m.- 9:15 a.m.

Introductions & Purpose of Meeting

- Review of Accretion Flow Measurements
Conducted on June 25, 2012**

- Discussion of Hydrologic Analyses
the Districts are Planning to Undertake**



AGENDA



9:15 a.m.-10:30 a.m.

**Discussion of Results and Path Forward
Related to Accretion Flow Measurements
Conducted on June 25, 2012 and
Provided to Relicensing Participants
on July 26, 2012**



AGENDA



10:30 a.m.-11:30 a.m.

**Discussion of Hydrologic Analyses
to be Conducted by the Districts
in Accordance with
FERC's Study Plan Determination
and Dispute Resolution**



AGENDA



- Available Streamflow Data Records/Sources Confirmed by Districts**

- Overview of FERC's Study Plan Determination and Dispute Decision as Relates to Hydrologic Analyses**



AGENDA



Statistical Analyses to be Conducted for Existing Project Conditions

- Average, maximum and minimum monthly flows for 1971-2009, 1996-2009, and by water year type
- Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type
- Average annual flows for 1971-2009 and 1996-2009
- 1-, 3-, and 7-day maximum mean daily flow for each year of 1971-2009
- 1-, 3-, and 7-day minimum mean daily flows for each year of 1971-2009
- Julian date and magnitude of annual maximum and minimum



AGENDA



□ Watershed Locations for Statistical Analyses

- Tuolumne River, inflow to Don Pedro Reservoir
- Tuolumne River just above La Grange Dam
- Turlock Canal near La Grange CA (USGS gage)
- Modesto Canal near La Grange CA (USGS gage)
- Tuolumne River below La Grange Dam near La Grange CA (USGS gage)
- Dry Creek at Modesto (CDWR gage)
- Tuolumne River at Modesto CA (USGS gage)



AGENDA



11:30 a.m.-12:30 p.m.

Other Hydrologic Analyses to be Conducted (these analyses need further clarification and discussion)

- Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California**

- Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records**



June 6 Memo to RPs Proposed Measurement Locations



ONE COMPANY
Many SolutionsSM

Memo

To: Don Pedro Relicensing Participants
From: Turlock Irrigation District / Modesto Irrigation District Project: Don Pedro Hydroelectric Project
Date: June 6, 2012

**RE: Study W&AR 2 Operations Model
Action Item from April 9, 2012, Hydrology Workshop
Proposed Lower Tuolumne Flow Accretion and Depletion Measurement Locations**

In accordance with our Study Plan W&AR-2 (November 22, 2011), the FERC Study Plan Determination (December 22, 2011), and the most recent FERC Study Dispute Determination (May 24, 2012), we are planning to undertake between June 25 and 29, 2012, flow measurements along the lower Tuolumne River between La Grange Gage and the San Joaquin River confluence, as well as within Dry Creek, to develop estimates of flow accretions and/or depletions (Table 1 and Figure 1). Using accepted flow measurement methodologies, flows will be measured at permanent gage locations, established Instream Flow Incremental Methodology (IFIM) transect locations, and other sites where flow changes may be discernible. Fieldwork will consist of direct measurement of in-channel discharge at ten locations when flows of 100 cubic feet per second are scheduled, as well as opportunistic flow data acquisition at six additional irrigation canal outflow locations, if outflows are occurring. Discharge at each site will be measured using standard methods for collecting data in wadeable streams (Rantz 1982). Depths and mean column water velocities will be measured across each transect using the same methods as used in the co-occurring IFIM stream habitat assessment (Stillwater Sciences 2009). Where transects have a series of water depths greater than approximately 3.5 feet, depth and velocity may be measured using Acoustic Doppler Current Profiler methods (e.g., Simpson 2002). **Please provide suggestions or comments on this plan to John Devine (john.devine@hdrinc.com) by Wednesday, June 20th.** This data is targeted to be compiled, checked, and then shared with Relicensing Participants by the first week in August.



June 6 Memo to RPs

Locations



Table 1. Flow measurement and data acquisition June 2012.

River Mile	Location
51.5	Near La Grange Gage
49.1	Basso Pool
43.4	Bobcat Flat
39.5	Roberts Ferry Bridge
37.1	Santa Fe Aggregates
33	Waterford Main (MID) ¹
33	Hickman Spill (TID) ²
31.5	Waterford
20	Faith Home Spill (TID) ²
18	Lateral No. 1 (MID) ¹
17.2	Legion Park
16.4	Dry Creek Gage
16.2	Modesto Gage
11	Lateral 1 (TID) ²
3.4	Shiloh Road
2	Lateral No. 5 (MID) ¹

¹Opportunistic site. Flow data provided by MID if outflow is occurring during study period

²Opportunistic site. Flow data provided by TID if outflow is occurring during study period



June 6 Memo to RPs

Map of Site Locations

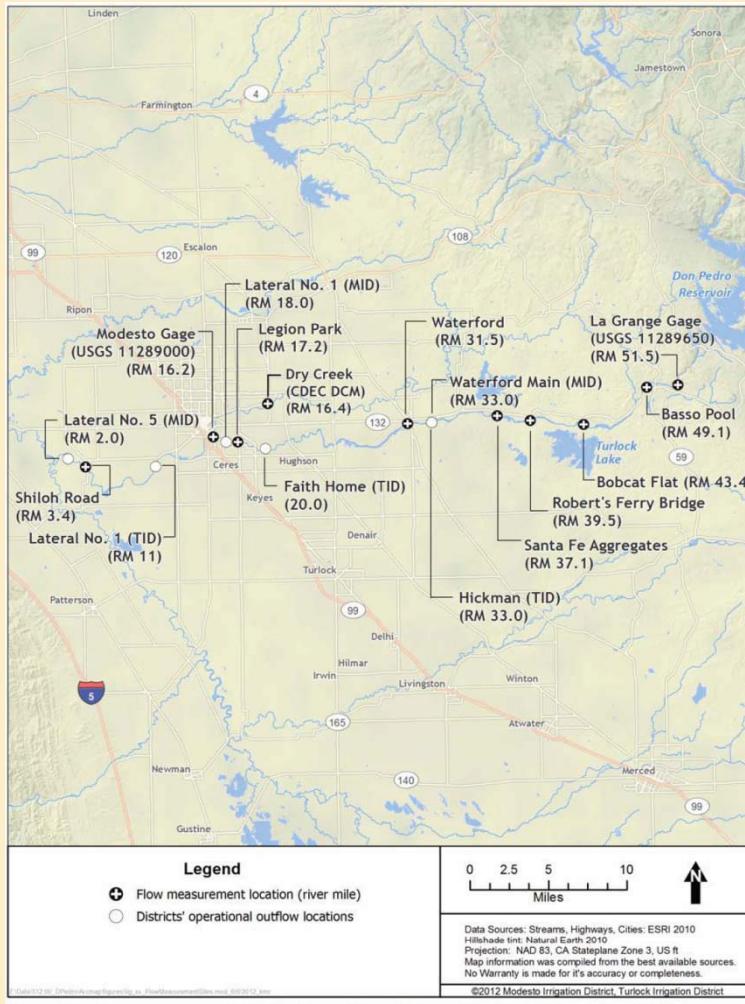


Figure 1. Flow measurement site locations along the lower Tuolumne River, June 2012.



June 6 Memo to RPs

References



References

- Rantz, S.E. 1982. Measurement and computation of streamflow: volume 1. Measurements of stage and discharge. USGS Water Supply Paper 2175. U.S. Geological Survey.
- Stillwater Sciences. 2009. Tuolumne River Instream Flow Studies. Final Study Plan. Prepared by Stillwater Sciences, Davis, California for Turlock Irrigation District and Modesto Irrigation Districts, California.
- Simpson, M.R., 2002, Discharge measurements using a Broad-Band Acoustic Doppler Current Profiler: U.S. Geological Survey Open-File Report 01-01, 123 p.



Tuolumne River & Dry Creek Flow Measurements 6-25-2012

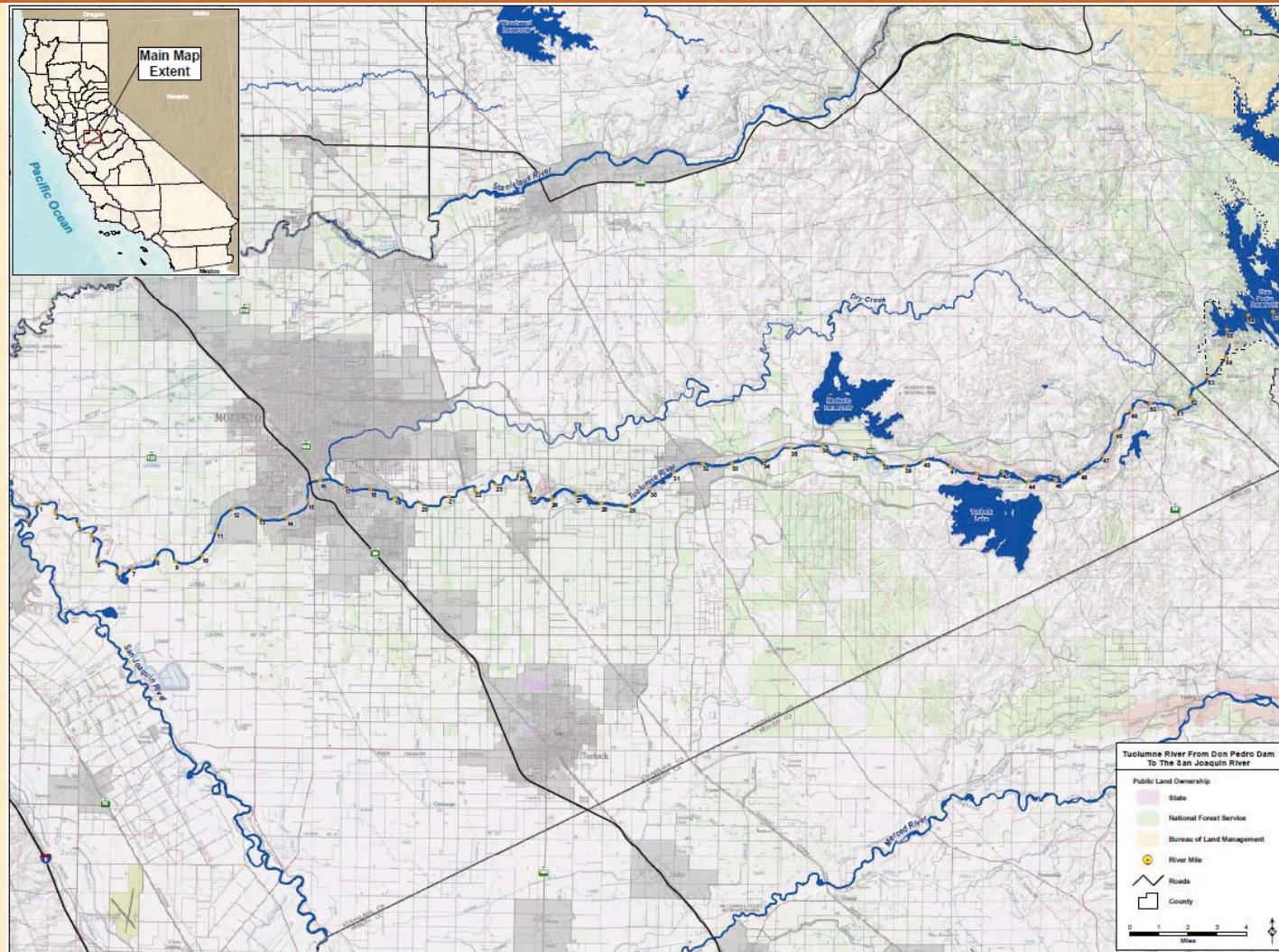


Site	Date	Dry Creek River Mile	Tuolumne River Mile	Time (military)	Field Measurements ^a				Discharge (ft ³ /sec)	Difference between Gage & Measured ^b (%)	
					Measured Discharge (ft ³ /sec)						
					Start	End	Q1 ^c	Q2	Q3	Avg	
Tuolumne River at La Grange gage house	6/25/12	--	51.5	0950	1120	119.2	110.6	--	114.9	114.9	--
Tuolumne River at La Grange (USGS 11289650) ^d	6/25/12	--	51.5	0945	1130	--	--	--	--	130	12
Tuolumne River at La Grange (CDEC LGN) ^e	6/25/12	--	51.5	0000	2345	--	--	--	--	94	22
Tuolumne River at Basso Pool	6/25/12	--	49.1	1325	1440	101.3	103.7	--	102.5	102.5	--
Tuolumne River at Bobcat Flat	6/25/12	--	43.4	1300	1625	93.3	105.5	99.0	99.2	99.2	--
Tuolumne River at Roberts Ferry Bridge	6/25/12	--	39.5	1535	1635	128.6	122.4	--	125.5	125.5	--
Tuolumne River at Santa Fe Aggregates	6/25/12	--	37.1	1720	1830	119.1	126.0	--	122.5	122.5	--
Waterford Main (MID) ^f	6/25/12	--	33	1800	2000	--	--	--	--	8	--
Hickman Spill (TID) ^g	6/25/12	--	33	0000	2345	--	--	--	--	0	--
Tuolumne River at Waterford	6/25/12	--	31.5	1834	1932	122.0	118.5	--	120.2	120.2	--
Tuolumne River at Delaware Road ^h	6/29/12	--	30.5	1045	1230	138.7	138.1	--	138.4	138.4	--
Faith Home Spill (TID) ^g	6/25/12	--	20	0000	2345	--	--	--	--	0	--
Lateral No. 1 (MID) ⁱ	6/25/12	--	18	1115	1230	--	--	--	--	1	--
Tuolumne River at Legion Park	6/25/12	--	17.2	1115	1230	169.1	181.6	--	175.4	175.4	--
Dry Creek (CDEC DCM) ^j	6/25/12	5.3	16.4	0000	2345	--	--	--	--	38	--
Dry Creek ^k	6/25/12	0.0	16.4	0915	1015	56.4	54.7	--	55.5	55.5	46 ^k
Tuolumne River at Modesto 9th St. Bridge	6/25/12	--	16.2	1300	1400	204.2	212.1	--	208.2	208.2	--
Tuolumne River at Modesto (USGS 11290000) ^d	6/25/12	--	16.2	1300	1400	--	--	--	--	219	5
Tuolumne River at Modesto (CDEC MOD) ^e	6/25/12	--	16.2	0000	2345	--	--	--	--	216	4
Lateral 1 (TID) ^g	6/25/12	--	11	0000	2345	--	--	--	--	0	--
Tuolumne River at Shiloh Bridge	6/25/12	--	3.7	1530	1700	241.3	251.3	--	246.3	246.3	--
Lateral No. 5 (MID) ⁱ	6/25/12	--	2	0900	2000	--	--	--	--	26.5	--

- not measured or not applicable



Tuolumne River Don Pedro to San Joaquin River





Summer & Winter Flow Trends

Years 2007 - 2011



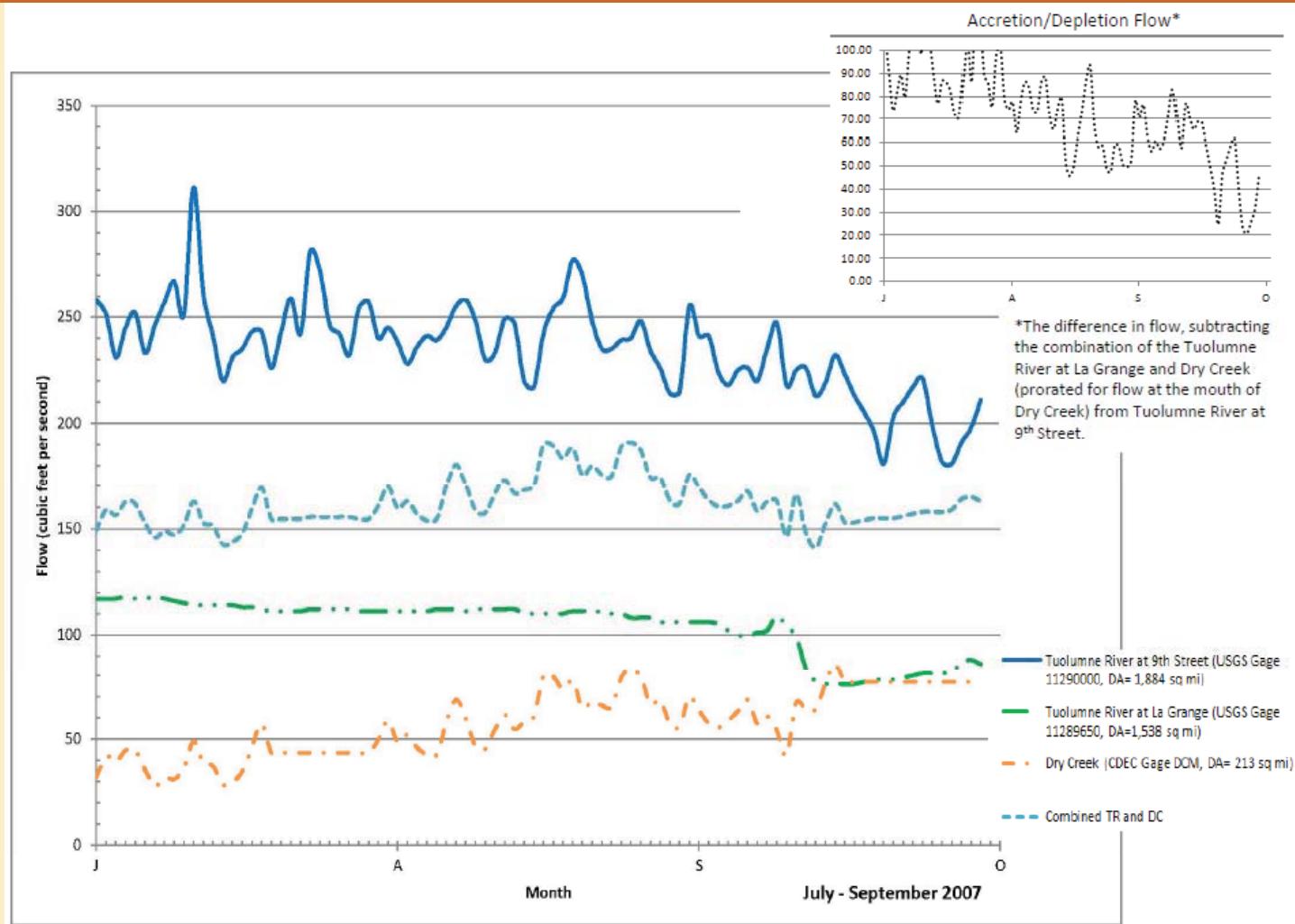
Summer and winter flow trends for years 2007 to 2011, showing flow records from the Tuolumne River USGS Gage 11290000 at Modesto/9th Street, Tuolumne River USGS Gage 11289650 just downstream of La Grange, and Dry Creek CDEC Gage DCM (approximately 5.5 miles upstream from Dry Creek mouth at Modesto).

Also included are accretion/depletion flow trends for each season occurring between La Grange and Modesto on the Tuolumne River, based on subtracting the Tuolumne River La Grange gage and Dry Creek gage (prorated to provide flow at Dry Creek mouth) from the Tuolumne River 9th Street gage flow.



Summer Flow Trends

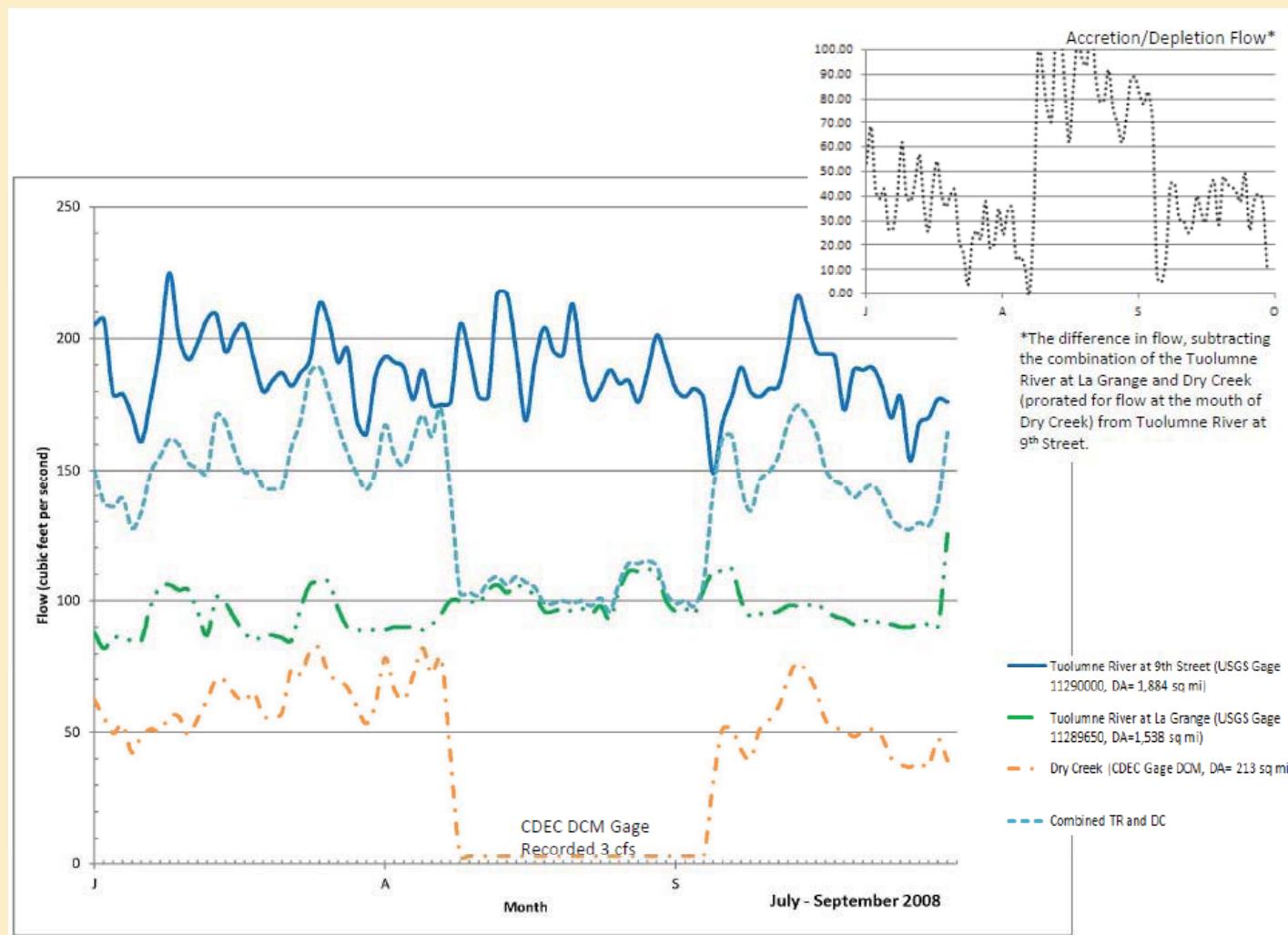
July – September 2007





Summer Flow Trends

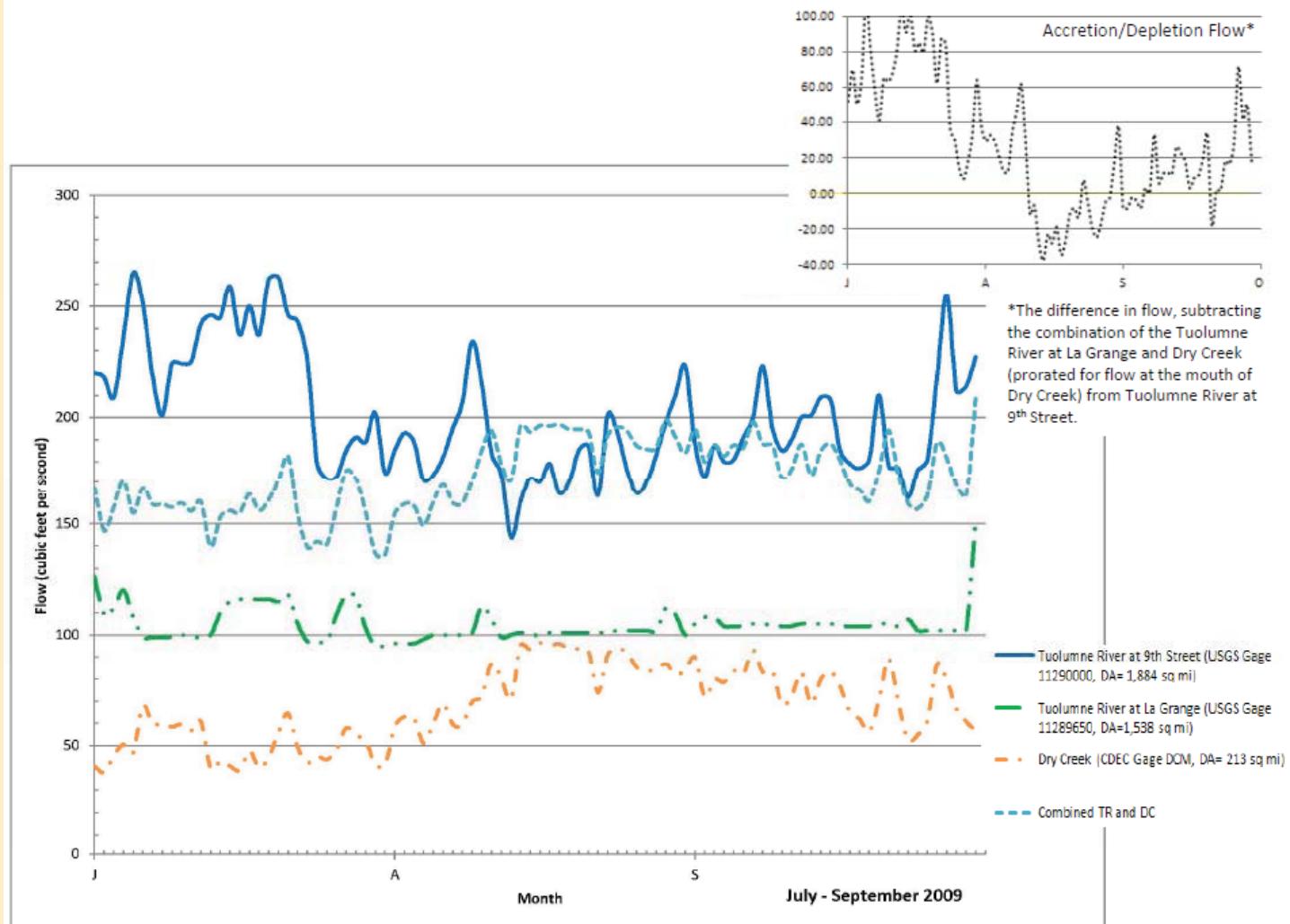
July – September 2008





Summer Flow Trends

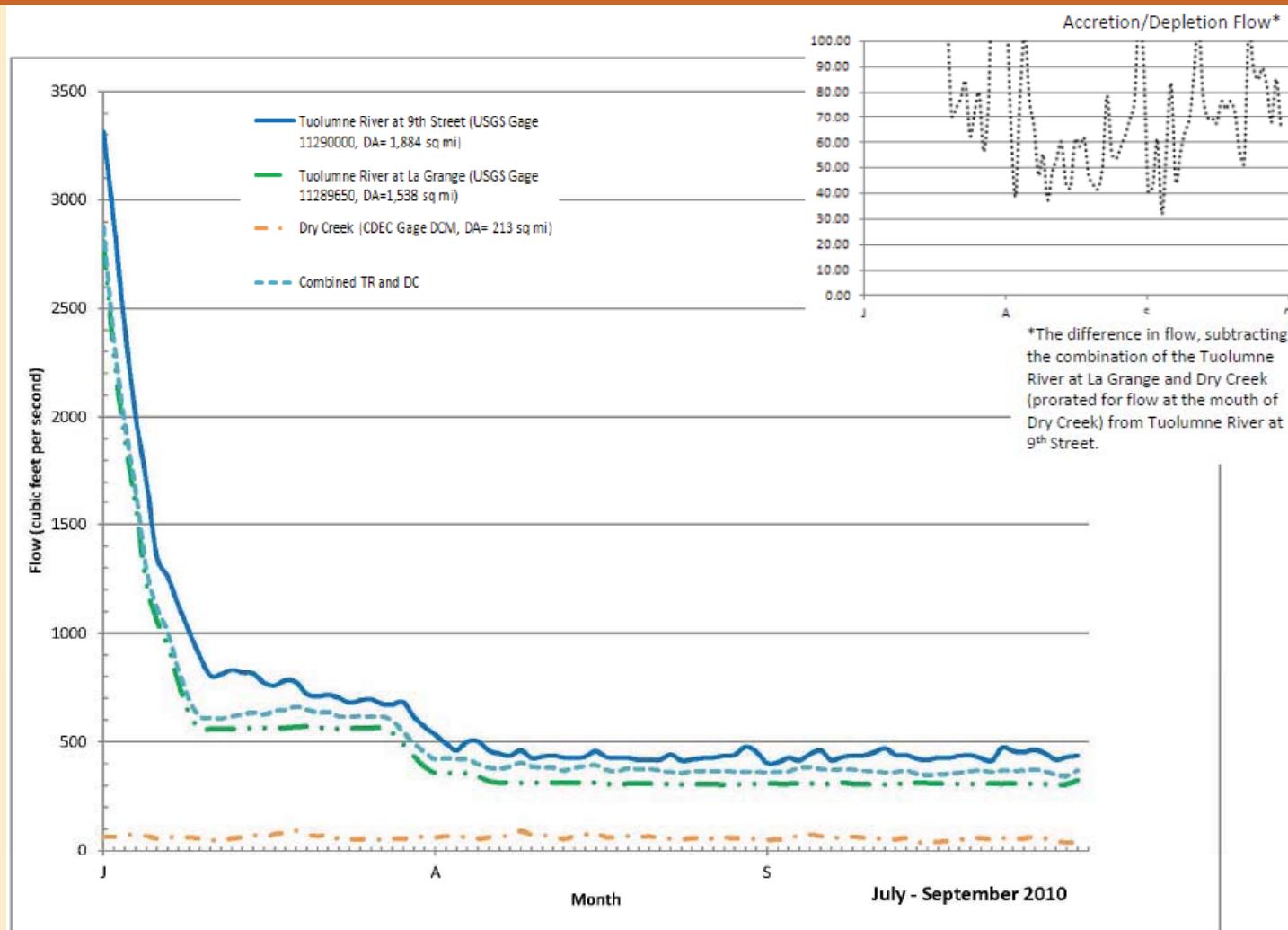
July – September 2009





Summer Flow Trends

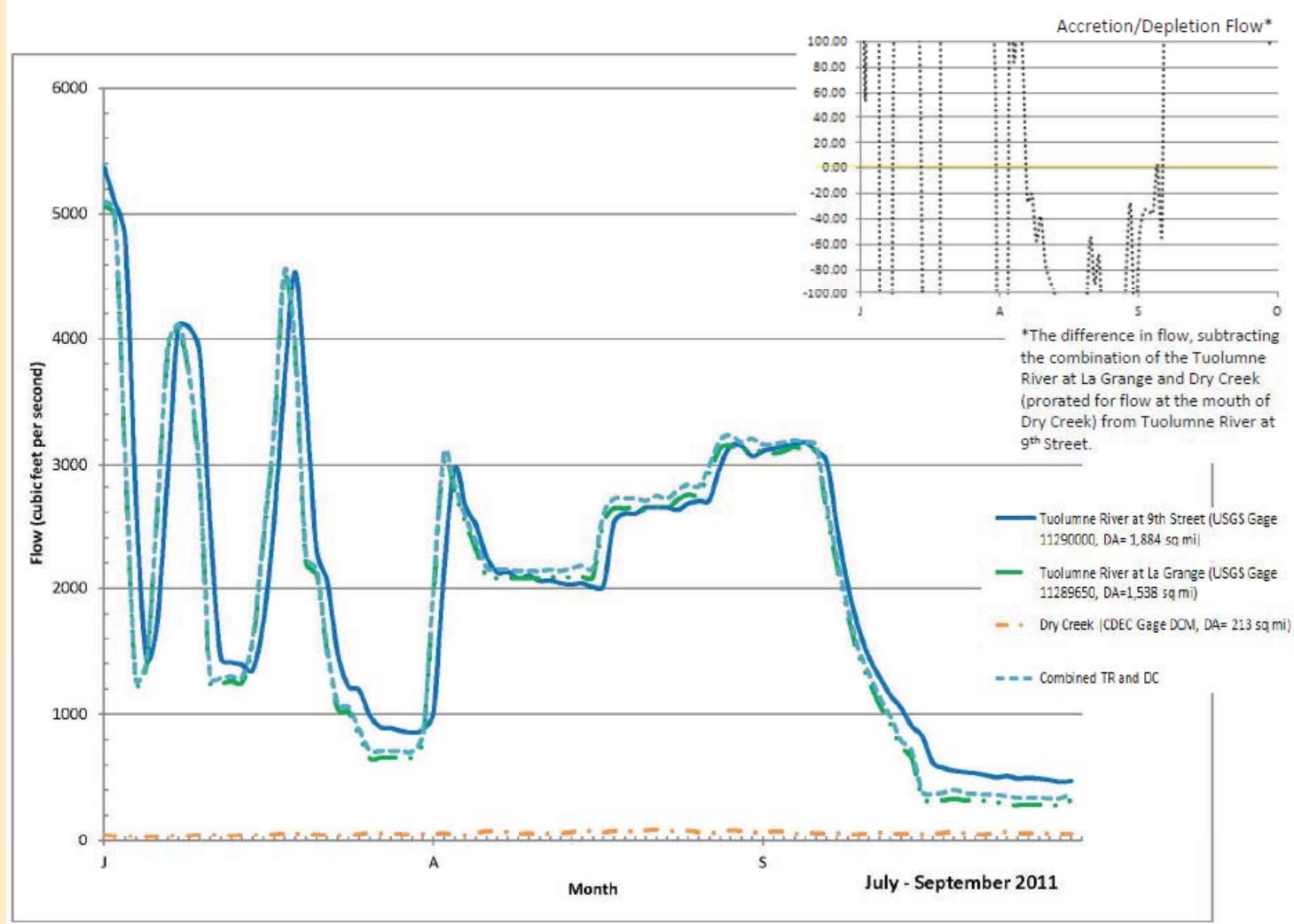
July – September 2010





Summer Flow Trends

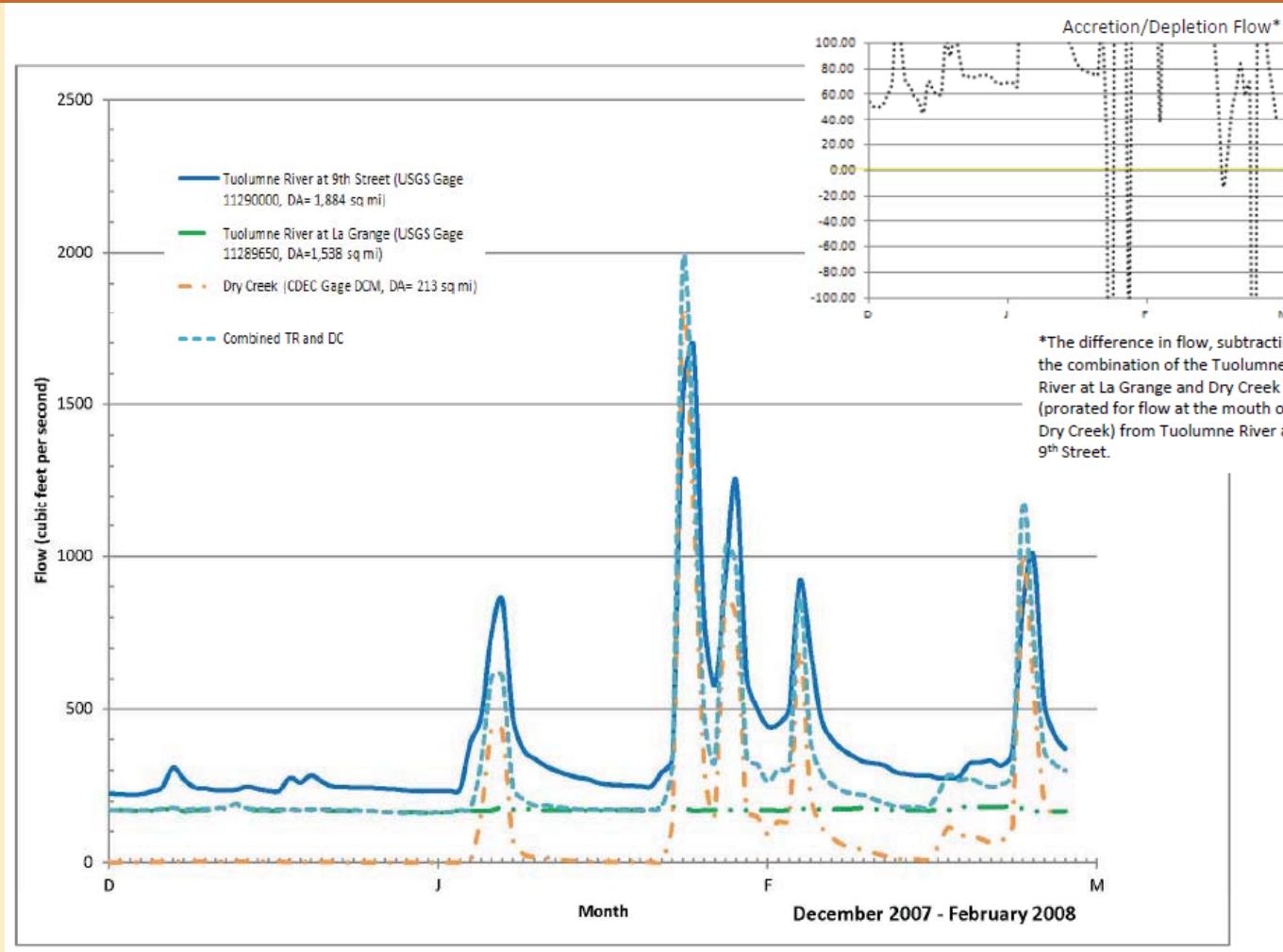
July – September 2011





Winter Flow Trends

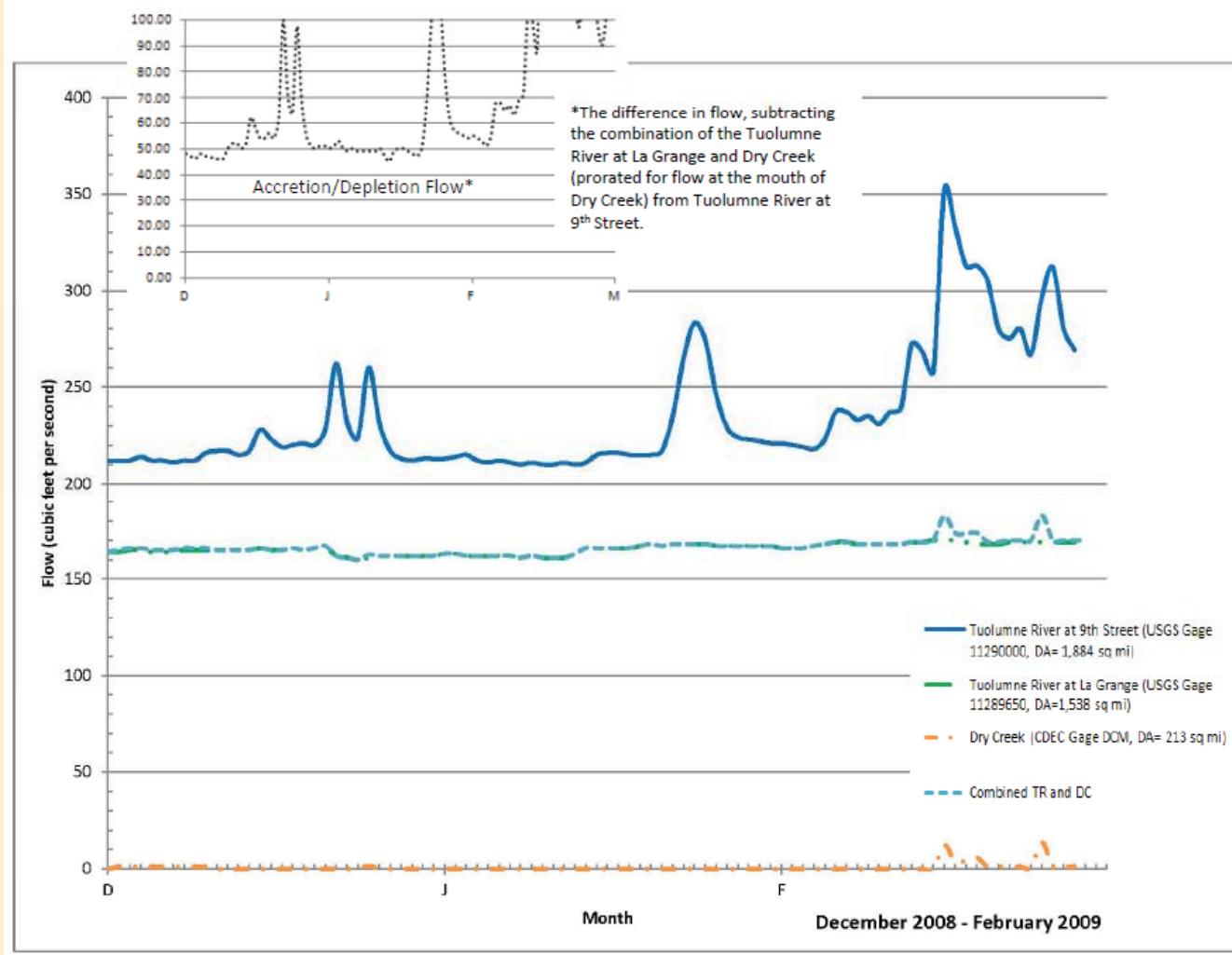
December 2007 – February 2008





Winter Flow Trends

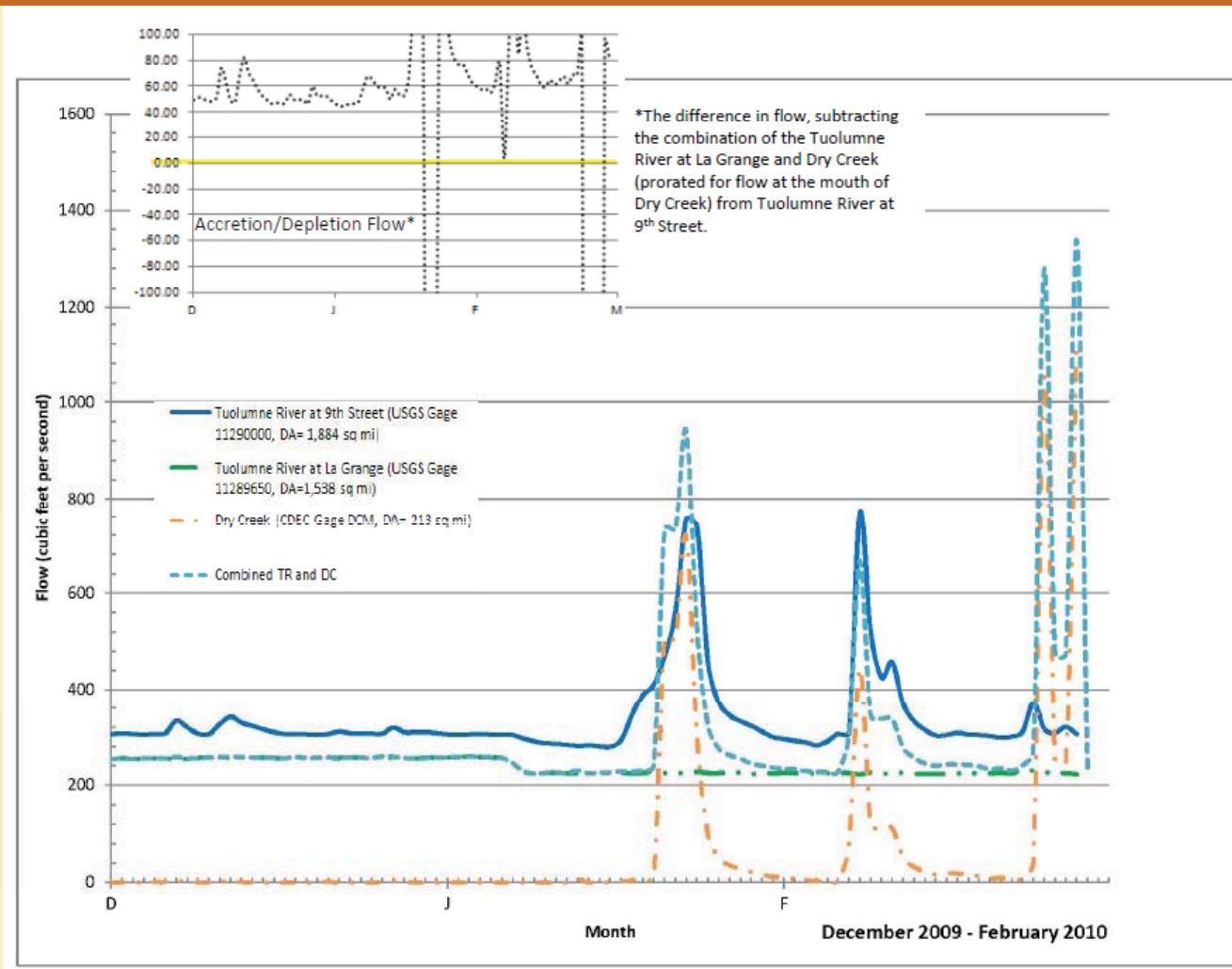
December 2008 – February 2009





Winter Flow Trends

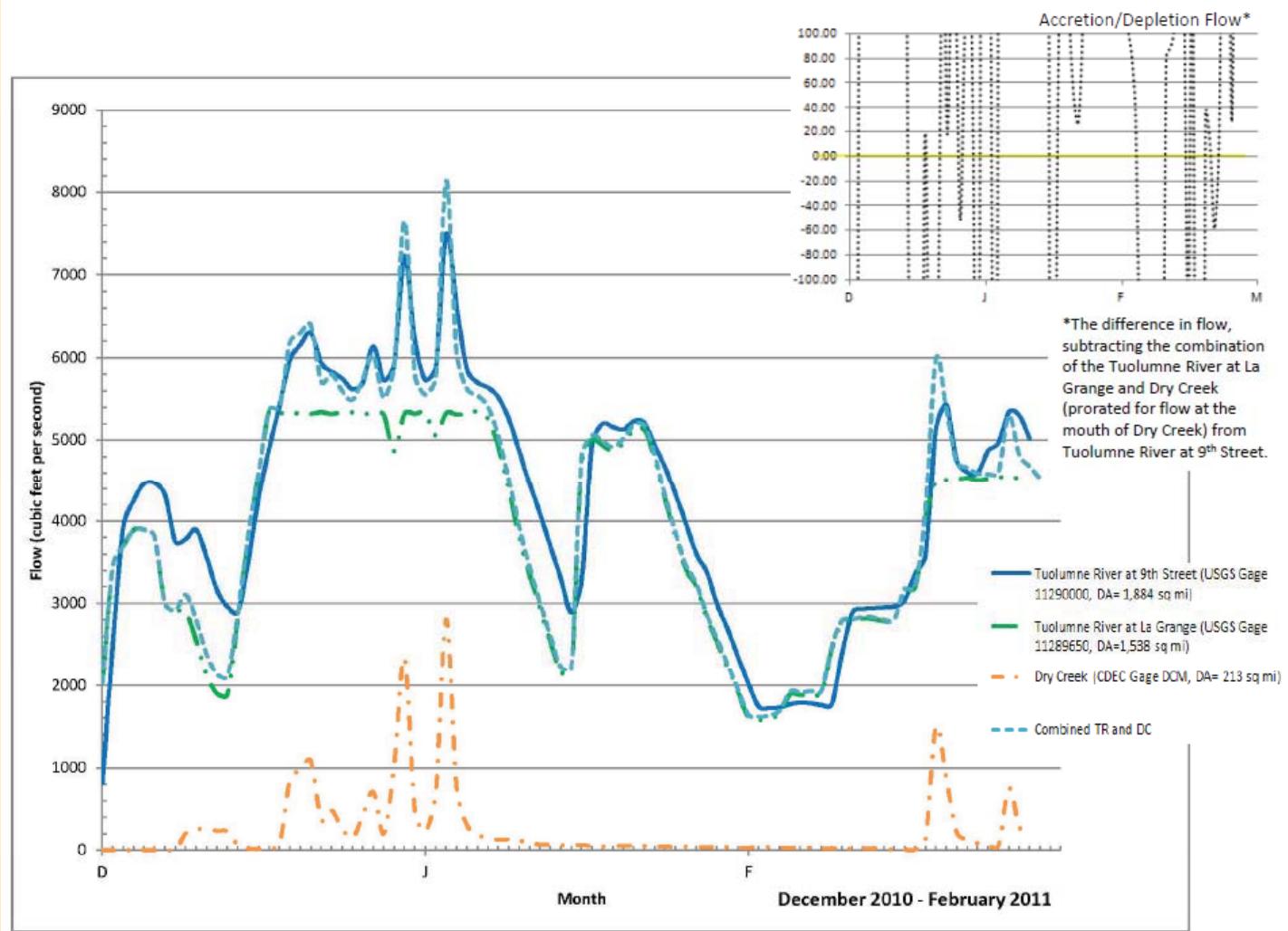
December 2009 – February 2010





Winter Flow Trends

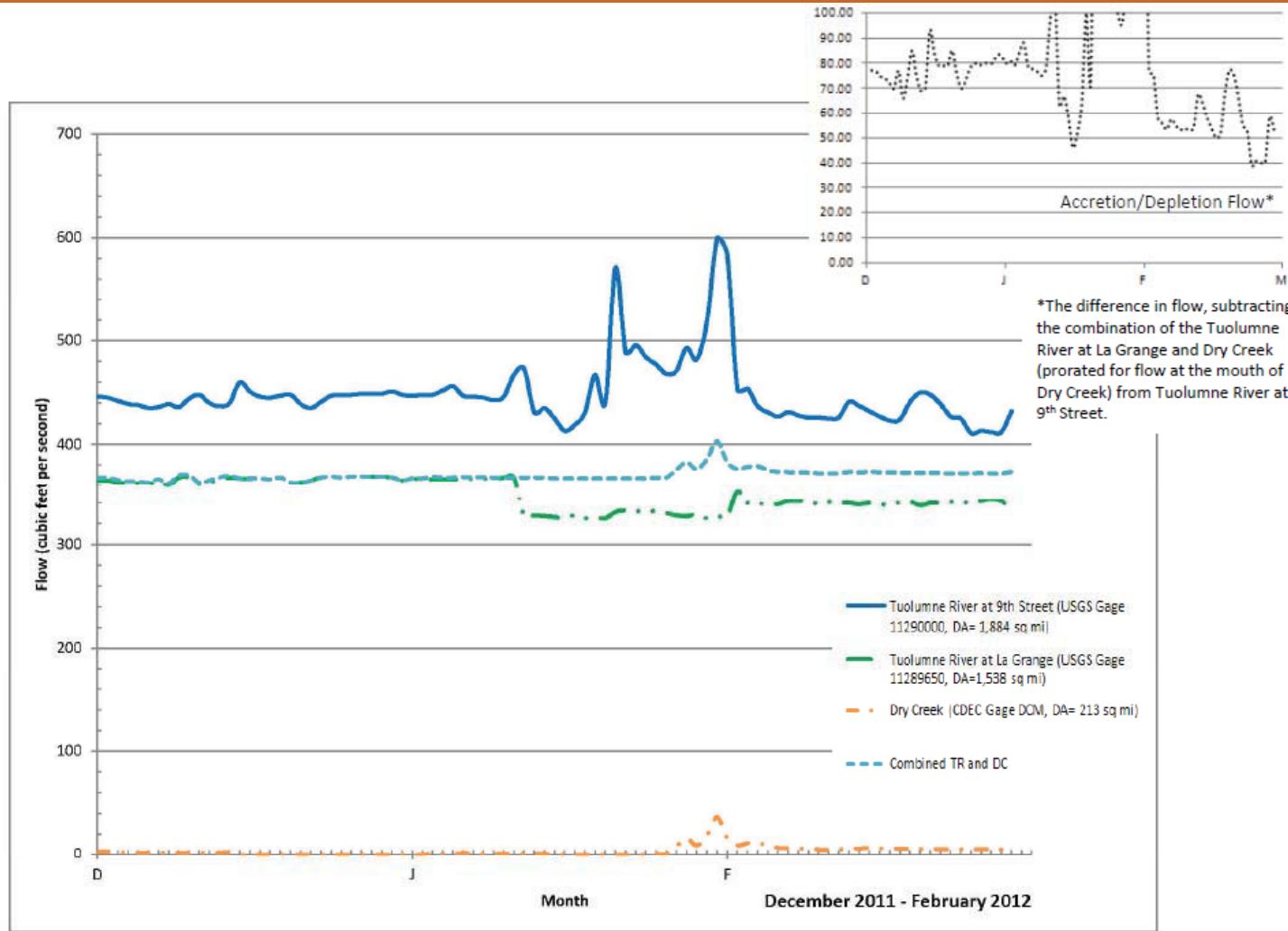
December 2010 – February 2011





Winter Flow Trends

December 2011 – February 2012





Lower Tuolumne Gage Calculations

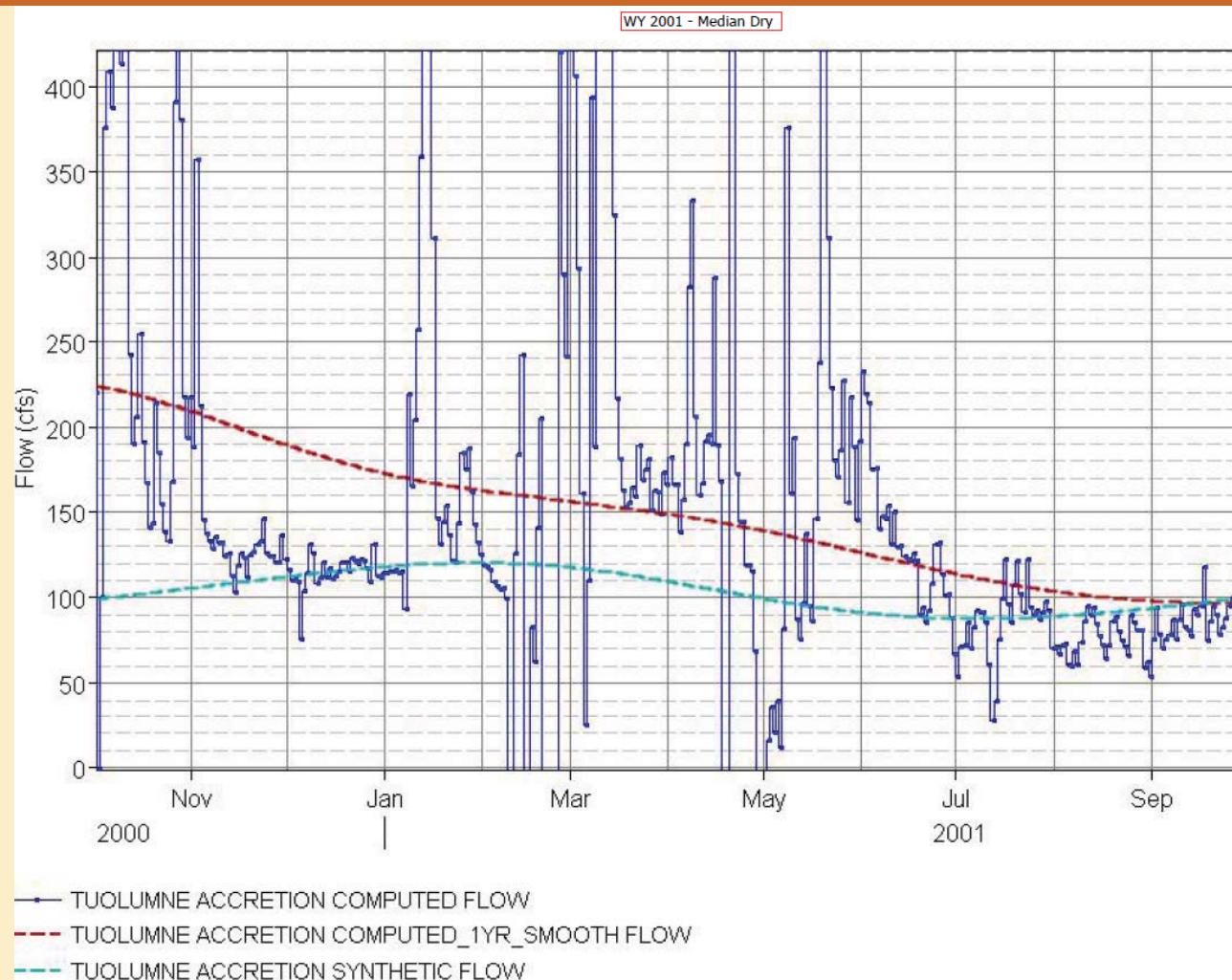
Water Years 2001-2010



Plots of the lower Tuolumne gage calculation for water years 2001 to 2010. Note the water year type is at the top of each page. The light blue dashed line is the synthetic dataset (consistent year-to-year), and the dashed dark red line is 1-year Gaussian smoothed gage data.

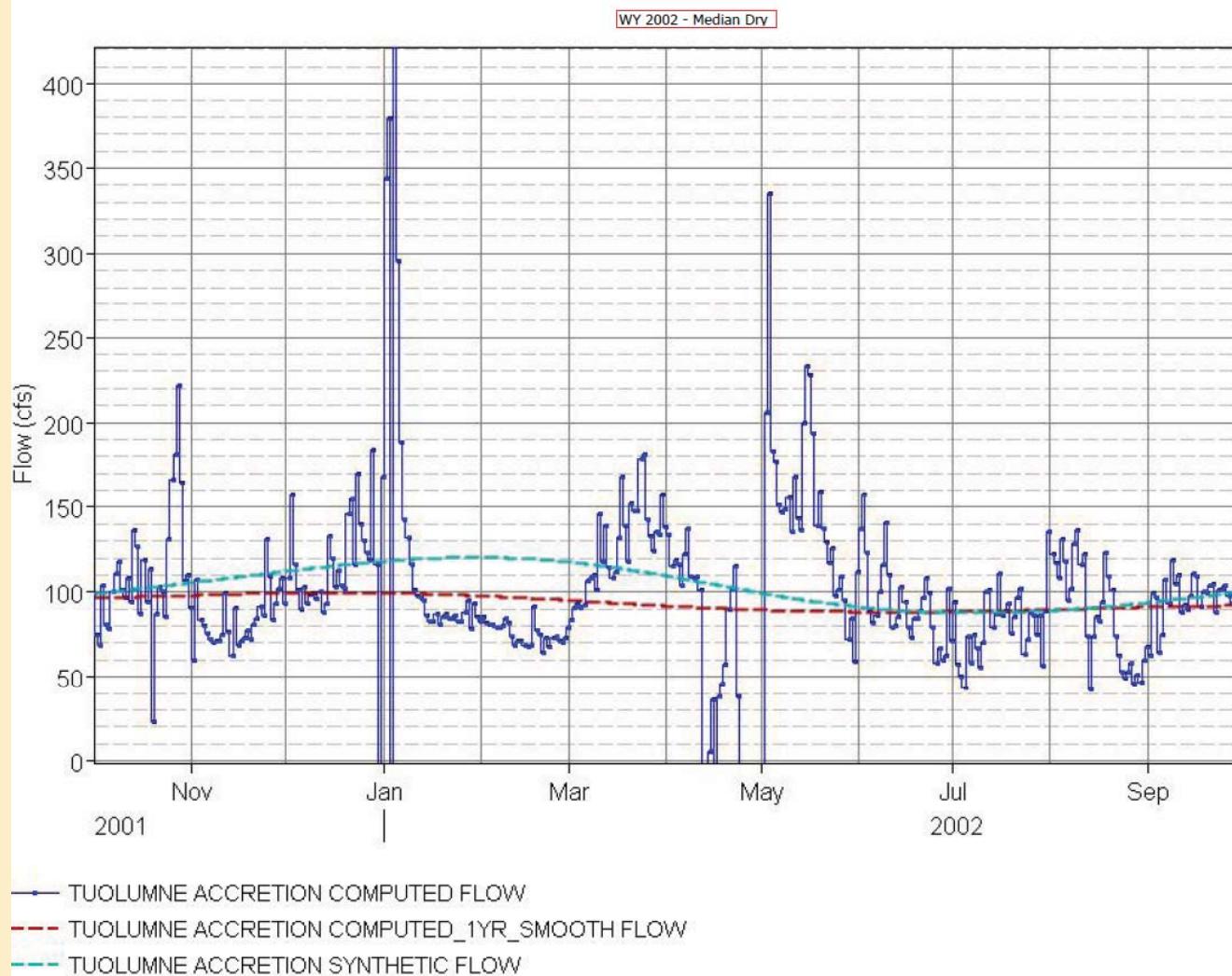


Lower Tuolumne Gage Calculations Water Year 2001



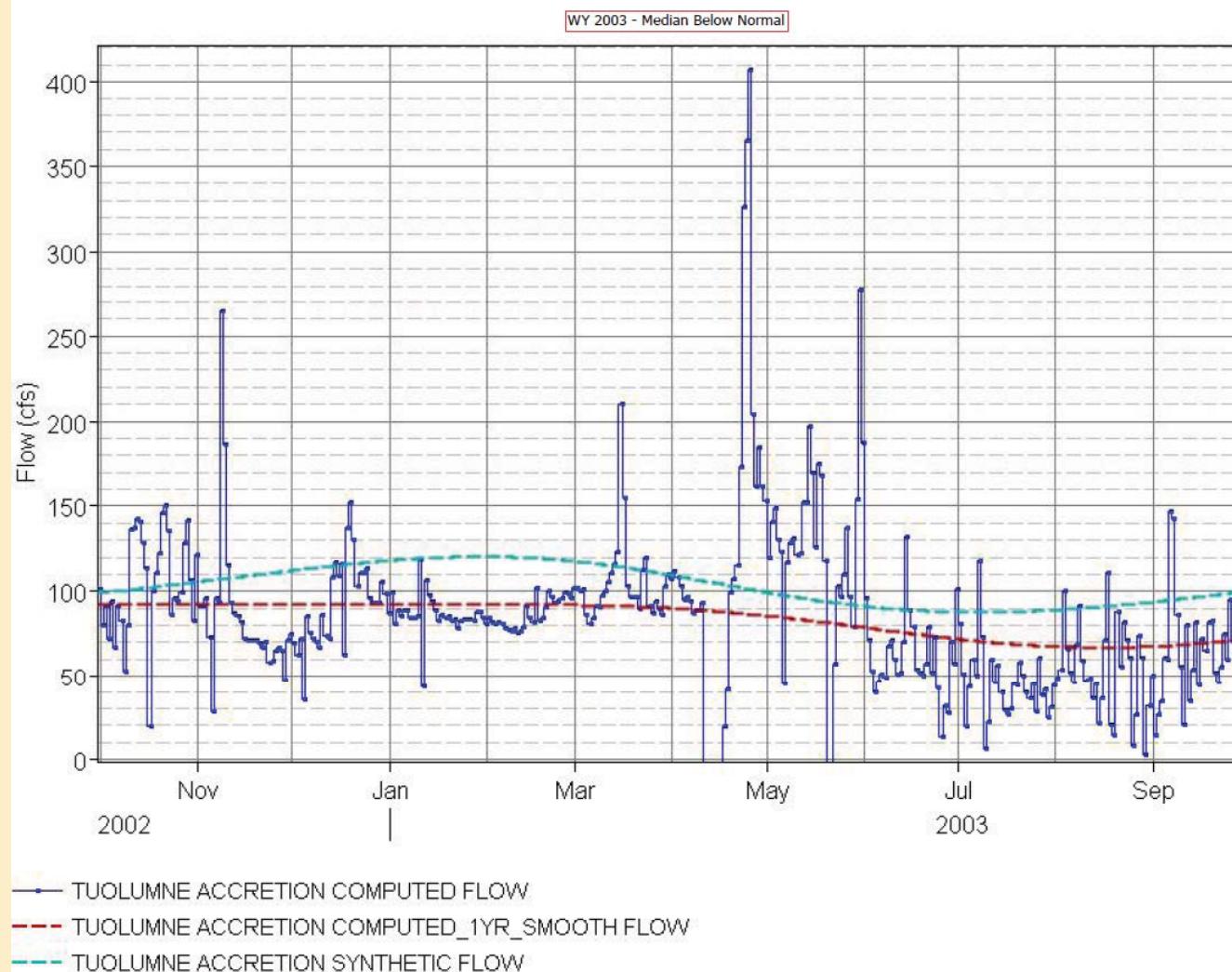


Lower Tuolumne Gage Calculations Water Year 2002





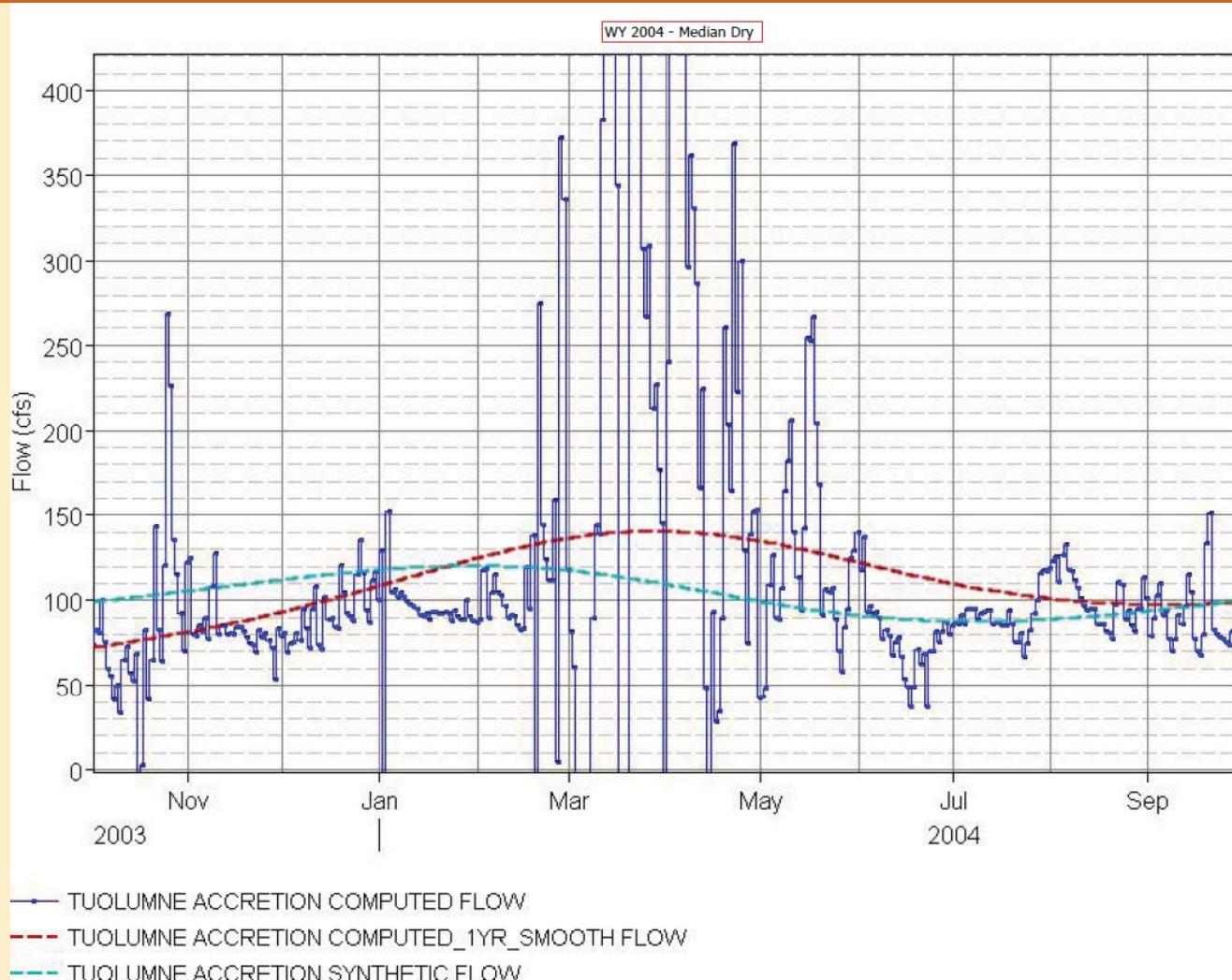
Lower Tuolumne Gage Calculations Water Year 2003





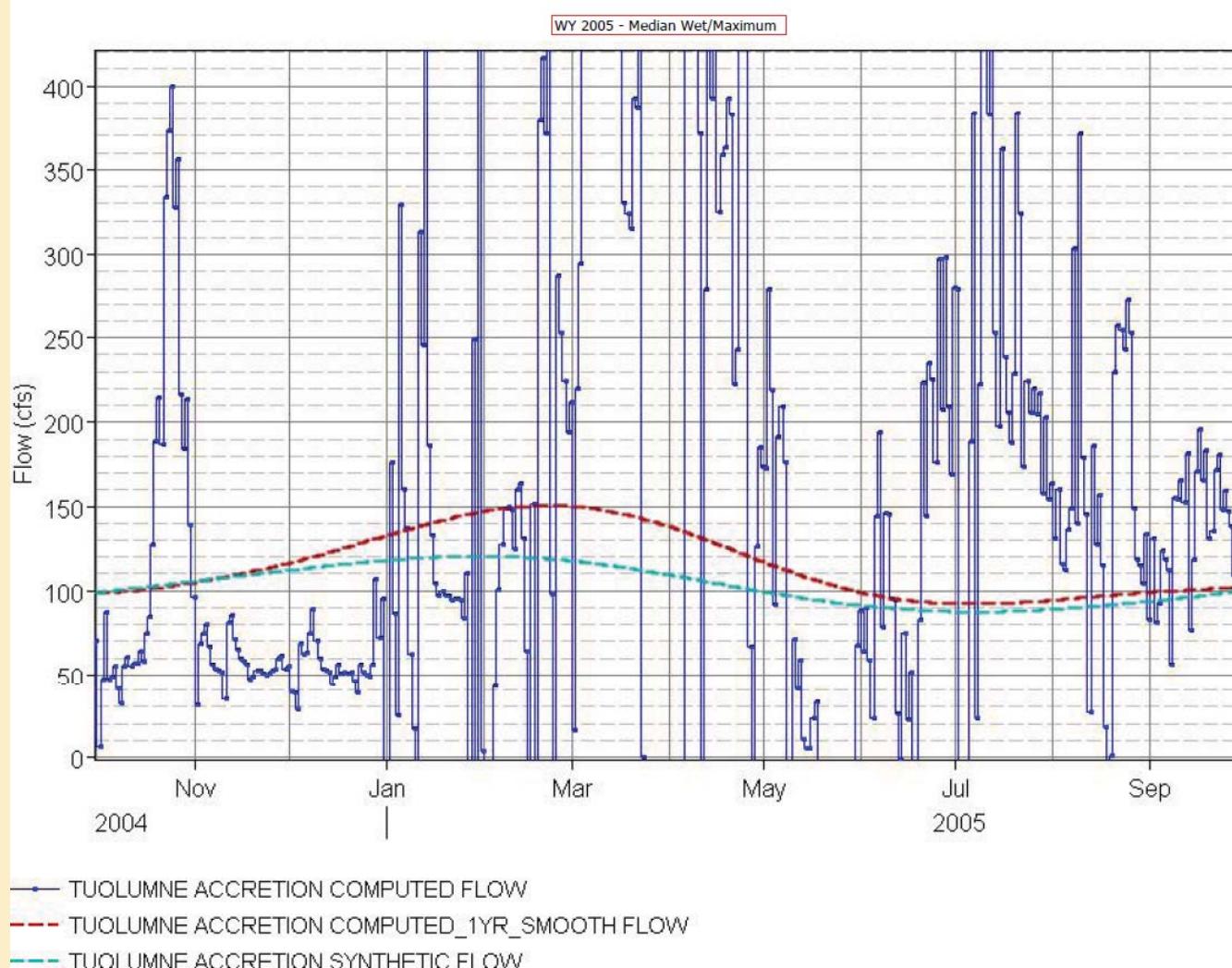
Lower Tuolumne Gage Calculations

Water Year 2004



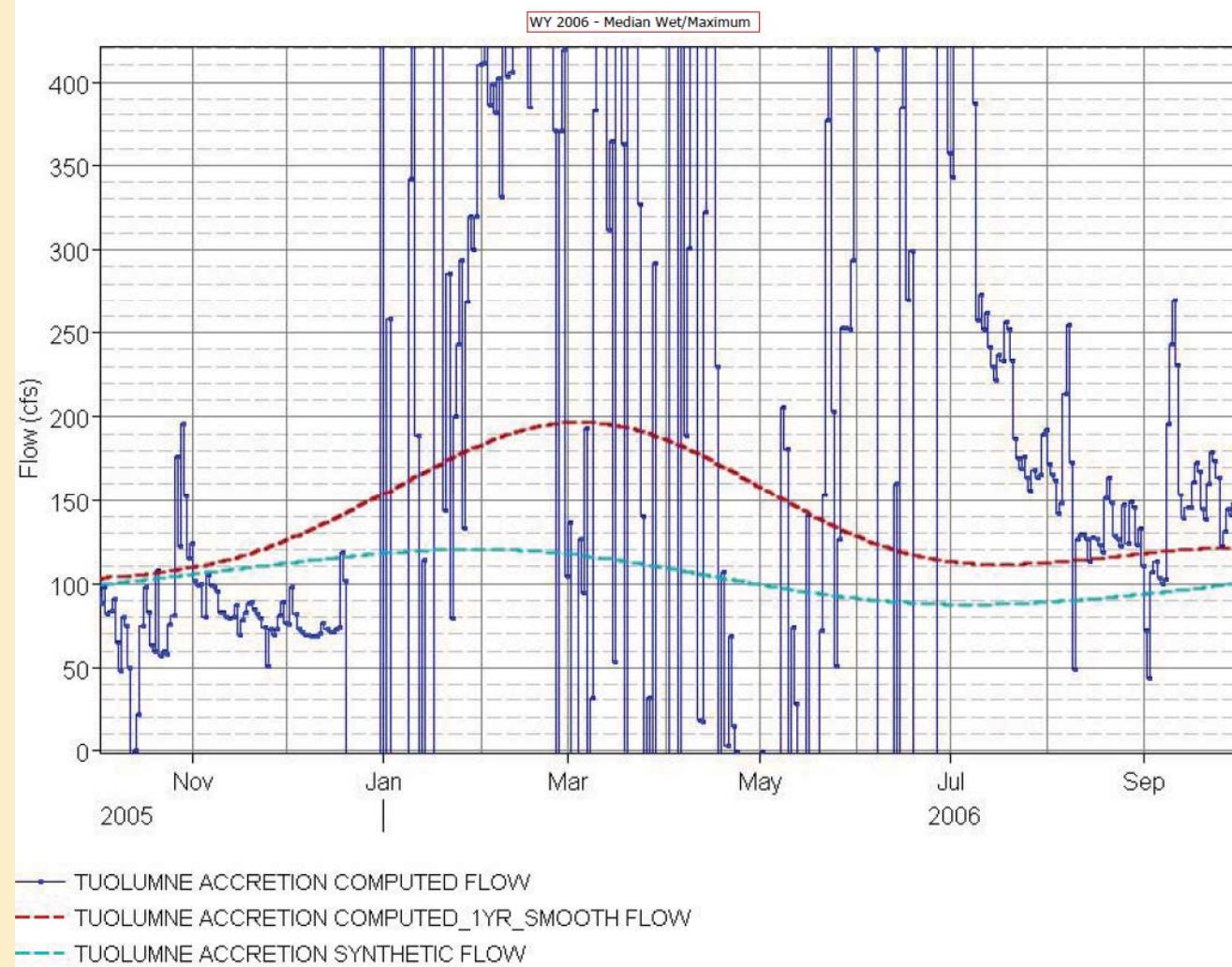


Lower Tuolumne Gage Calculations Water Year 2005



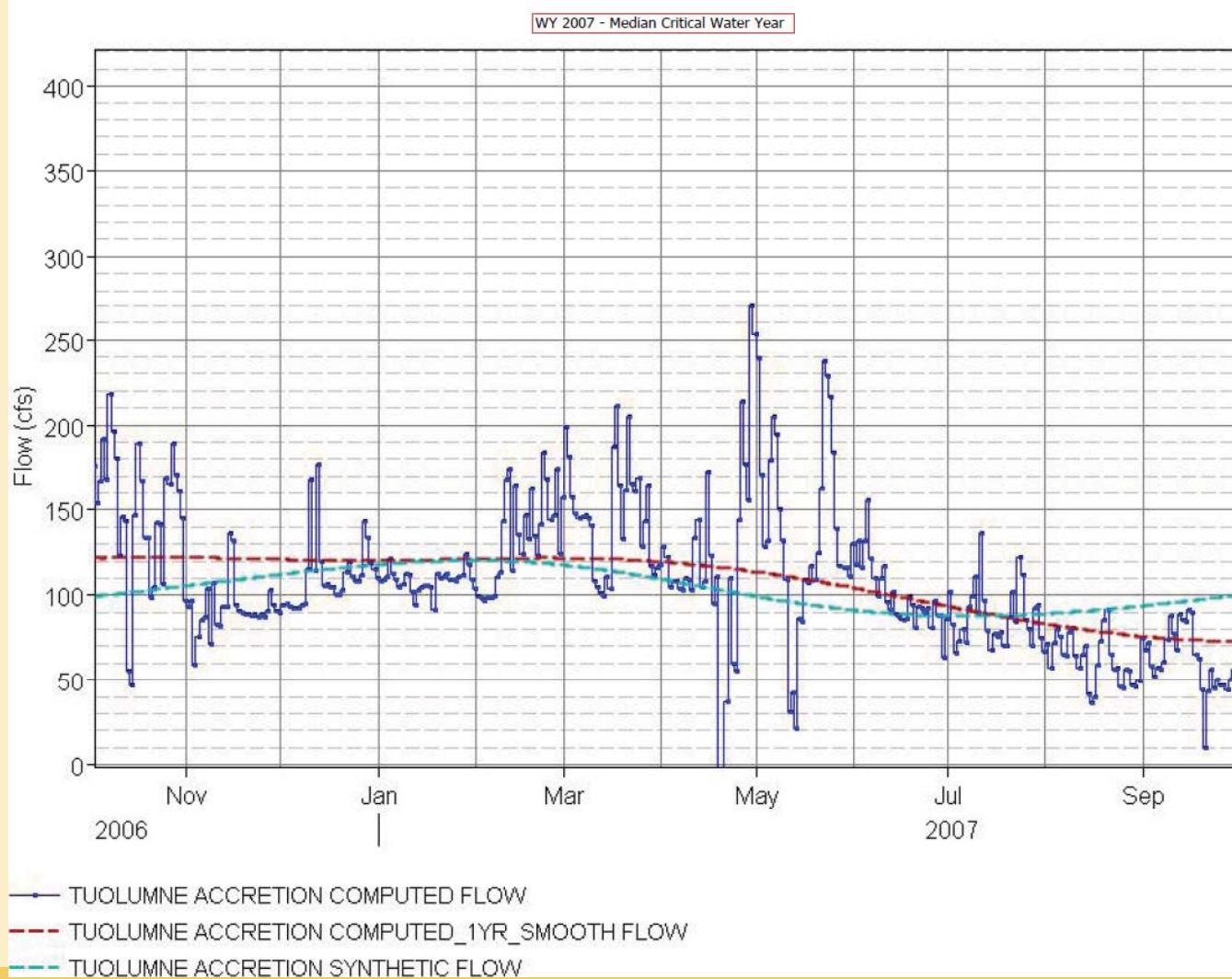


Lower Tuolumne Gage Calculations Water Year 2006



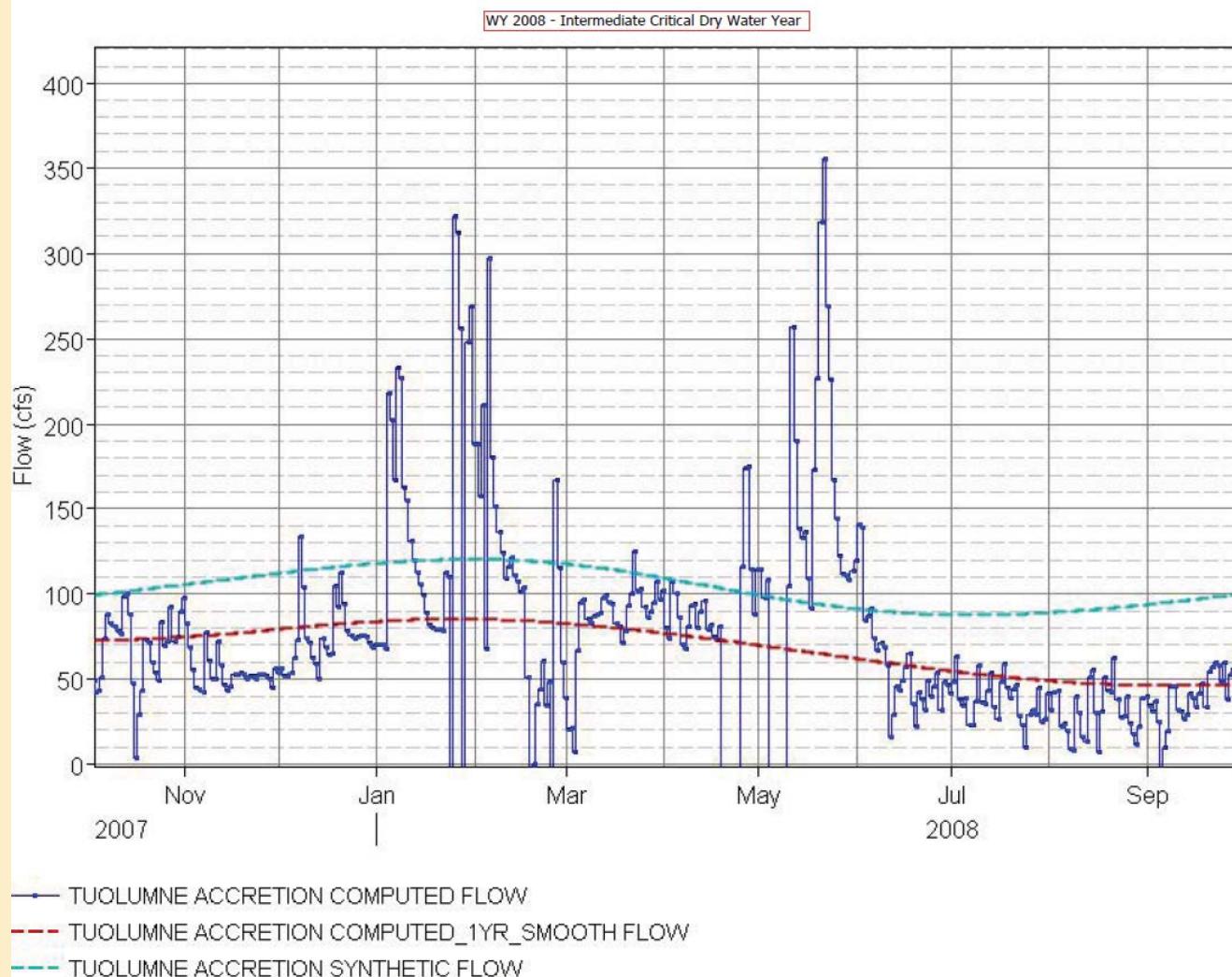


Lower Tuolumne Gage Calculations Water Year 2007



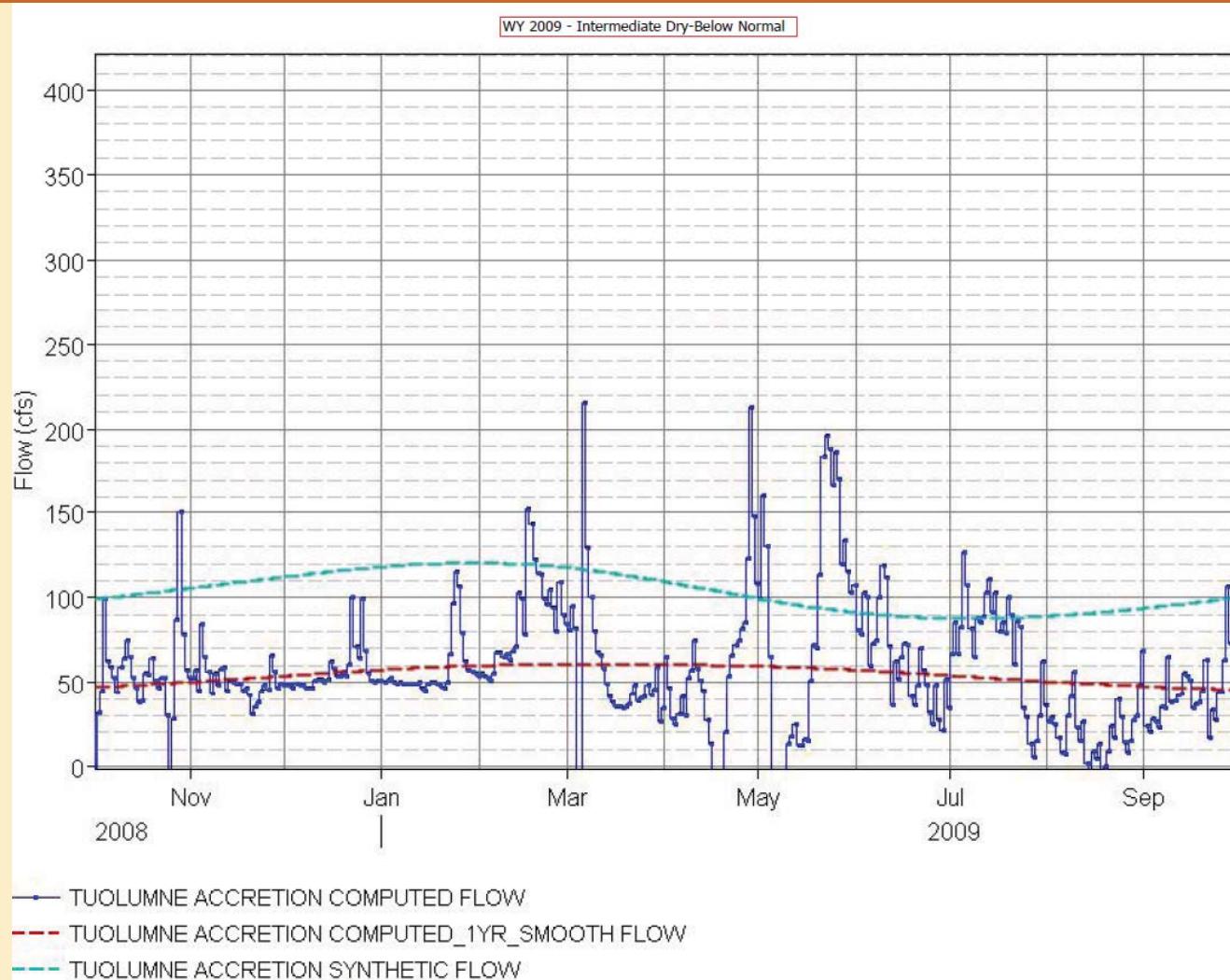


Lower Tuolumne Gage Calculations Water Year 2008



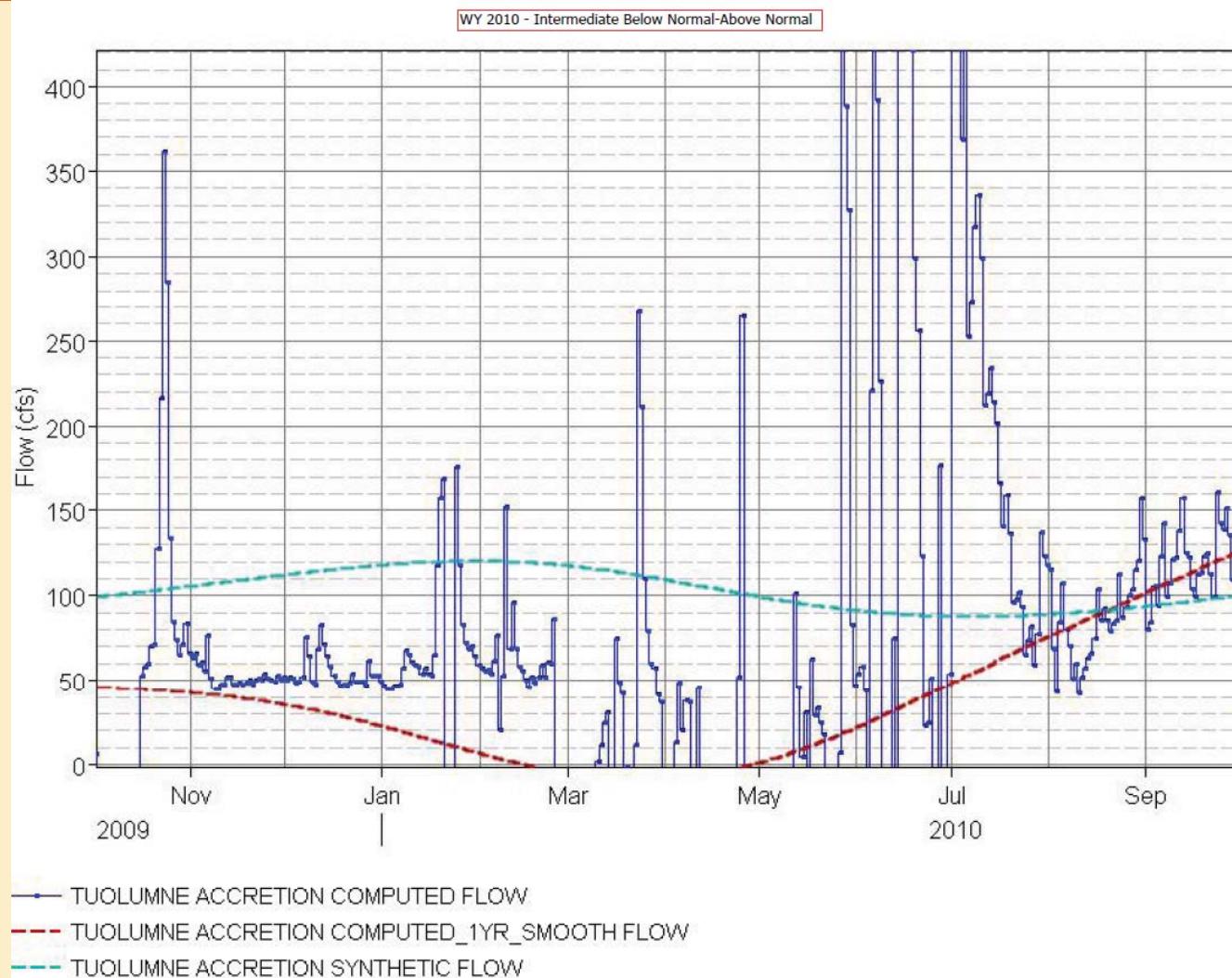


Lower Tuolumne Gage Calculations Water Year 2009





Lower Tuolumne Gage Calculations Water Year 2010



From: Staples, Rose
Sent: Tuesday, November 06, 2012 7:50 PM
To: 'Asay, Lynette'; 'Barnes, James'; 'Barnes, Peter'; 'Beniamine Beronia'; 'Blake, Martin'; 'Bond, Jack'; 'Borovansky, Jenna'; 'Boucher, Allison'; 'Bowes, Stephen'; 'Bowman, Art'; 'Brenneman, Beth'; 'Brewer, Doug'; 'Buckley, John'; 'Buckley, Mark'; 'Burt, Charles'; 'Byrd, Tim'; 'Cadagan, Jerry'; 'Carlin, Michael'; 'Charles, Cindy'; 'Colvin, Tim'; 'Costa, Jan'; 'Cowan, Jeffrey'; 'Cox, Stanley Rob'; 'Cranston, Peggy'; 'Creemeen, Rebecca'; 'Damin Nicole'; 'Day, Kevin'; 'Day, P'; 'Denean'; 'Derwin, Maryann Moise'; 'Devine, John'; 'Donaldson, Milford Wayne'; 'Dowd, Maggie'; 'Drekmeier, Peter'; 'Edmondson, Steve'; 'Eicher, James'; 'Fargo, James'; 'Ferranti, Annee'; 'Ferrari, Chandra'; 'Fety, Lauren'; 'Findley, Timothy'; 'Fuller, Reba'; 'Furman, Donn W'; 'Ganteinbein, Julie'; 'Giglio, Deborah'; 'Gorman, Elaine'; 'Grader, Zeke'; 'Gutierrez, Monica'; 'Hackamack, Robert'; 'Hastreiter, James'; 'Hatch, Jenny'; 'Hayat, Zahra'; 'Hayden, Ann'; 'Hellam, Anita'; 'Heyne, Tim'; 'Holley, Thomas'; 'Holm, Lisa'; 'Horn, Jeff'; 'Horn, Timi'; 'Hudelson, Bill'; 'Hughes, Noah'; 'Hughes, Robert'; 'Hume, Noah'; 'Jackson, Zac'; 'Jauregui, Julia'; 'Jennings, William'; 'Jensen, Art'; 'Jensen, Laura'; 'Johannis, Mary'; 'Johnson, Brian'; 'Justin'; 'Keating, Janice'; 'Kempton, Kathryn'; 'Kinney, Teresa'; 'Koepele, Patrick'; 'Kordella, Lesley'; 'Le, Bao'; 'Lein, Joseph'; 'Levin, Ellen'; 'Lewis, Reggie'; 'Linkard, David'; 'Loy, Carin'; 'Lwenya, Roselynn'; 'Lyons, Bill'; 'Madden, Dan'; 'Manji, Annie'; 'Marko, Paul'; 'Marshall, Mike'; 'Martin, Michael'; 'Martin, Ramon'; 'Mathiesen, Lloyd'; 'McDaniel, Dan'; 'McDevitt, Ray'; 'McDonnell, Marty'; 'McLain, Jeffrey'; 'Mein Janis'; 'Mills, John'; 'Minami Amber'; 'Monheit, Susan'; 'Morningstar Pope, Rhonda'; 'Motola, Mary'; 'Murphy, Gretchen'; 'Murray, Shana'; 'O'Brien, Jennifer'; 'Orvis, Tom'; 'Ott, Bob'; 'Ott, Chris'; 'Paul, Duane'; 'Pavich, Steve'; 'Pinhey, Nick'; 'Pool, Richard'; 'Porter, Ruth'; 'Powell, Melissa'; 'Puccini, Stephen'; 'Raeder, Jessie'; 'Ramirez, Tim'; 'Rea, Maria'; 'Reed, Rhonda'; 'Richardson, Kevin'; 'Ridenour, Jim'; 'Robbins, Royal'; 'Romano, David O'; 'Roos-Collins, Richard'; 'Roseman, Jesse'; 'Rothert, Steve'; 'Sandkulla, Nicole'; 'Saunders, Jenan'; 'Schutte, Allison'; 'Sears, William'; 'Shakal, Sarah'; 'Shipley, Robert'; 'Shumway, Vern'; 'Shutes, Chris'; 'Sill, Todd'; 'Slay, Ron'; 'Smith, Jim'; 'Staples, Rose'; 'Stapley, Garth'; 'Steindorf, Dave'; 'Steiner, Dan'; 'Stender, John'; 'Stone, Vicki'; 'Stork, Ron'; 'Stratton, Susan'; 'Taylor, Mary Jane'; 'Terpstra, Thomas'; 'TeVelde, George'; 'Thompson, Larry'; 'Vasquez, Sandy'; 'Verkuil, Colette'; 'Vierra, Chris'; 'Wantuck, Richard'; 'Welch, Steve'; 'Wesselman, Eric'; 'Wheeler, Dan'; 'Wheeler, Dave'; 'Wheeler, Douglas'; 'White, David K'; 'Wilcox, Scott'; 'Williamson, Harry'; 'Willy, Allison'; 'Wilson, Bryan'; 'Winchell, Frank'; 'Wooster, John'; 'Workman, Michelle'; 'Yoshiyama, Ron'; 'Zipser, Wayne'

Subject: Updated Analysis of Hydrology for Dry Creek and Accretion Flows for Main Stem TR between La Grange and Modesto Gages

Attachments: LT_Accretion_Data_Review_DRAFT_121106.pdf; AttachmentA.pdf

Please find attached the updated analysis of hydrology for Dry Creek and accretion flows for the main stem of the Tuolumne River between the La Grange gage and the Modesto gage. These flows will become part of the Tuolumne River Operations Model being developed under Study Plan W&AR-2. The report provides the description of methods; Attachment A (attached) is the resulting daily flow record from WY 1970 to 2010; and Attachment B (uploaded to www.donpedro-relicensing.com/Introduction/Announcements) are all the supporting data files in .dss format (Google **HECdssVue** to download the free software needed to look at the .dss files). This report is being provided to relicensing participants for review and comment. Please provide comments by December 7, 2012 to Rose Staples at rose.staples@hdrinc.com. The Districts will respond to all comments and file the comments and responses with FERC as an addendum to the September 21, 2012 W&AR-2 Workshop meeting notes, comments and responses.

To provide a bit more background, you may recall the discussion in the September 21 Hydrology Investigations Workshop dealing with the development of accretion hydrology for the Project Operations Model. It was explained at the meeting that the Districts were undertaking the estimation of accretion hydrology occurring downstream of the La

Grange gage in order to meet Relicensing Participants' stated needs to identify additional nodes and carry the Project Operations Model to the confluence with the SJR. It was further explained that the Districts were approaching this from two directions – one using gage records for Dry Creek, Modesto gage, and La Grange gage and the other using direct streamflow measurements. The Workshop provided a status report on both approaches. After the description of the preliminary results obtained using the gage records approach, wherein the challenges and relatively large degree of uncertainty using this approach were pointed out, [relicensing participants](#) were asked if they might have any suggestions for alternative methods. None were forthcoming at the meeting or subsequent to the meeting. It was also mentioned at the Workshop that the results provided at the Workshop were preliminary, and that the Districts would update these analyses and issue a report and results for review and comment. This is that report. The Districts look forward to your comments.

Thank you.

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CAP-OM

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**Lower Tuolumne River Accretion (La Grange to Modesto)
Estimated daily flows (1970-2010) for the Operations Model
Don Pedro Project Relicensing**

1.0 Objective

Using available data, develop a daily time series representing the total accretion and/or depletion flows between La Grange Dam and the Modesto gage on the Tuolumne River. These data will serve as input into the relicensing operations model. Accretion or depletion in this context is defined as the full inflow or outflow, respectively, contributed by or to the local drainage basin, incorporating both groundwater/baseflow and surface runoff considerations.

2.0 Existing Information

As shown in Table 1, there are three permanent flow gages currently installed in the lower Tuolumne River: (1) the Modesto gage, operated by the USGS (USGS 11290000); (2) the gage below La Grange Dam, operated by Turlock Irrigation District and calibrated to USGS standards (USGS 11289650); and (3) the Dry Creek at the Tuolumne River gage, operated by the California Department of Water Resources (DWR; Gage Code DCM on the California Data Exchange Center) on Dry Creek.

Table 1. Historical flow data for the lower Tuolumne River.

River Mile	Location	Gage Identifier	Period of Analysis	Data Quality	Notes
TUOLUMNE RIVER					
51.5	Tuolumne River at La Grange	USGS: 11289650	October 1 1970 – September 30 2010	Records are “good” with expected accuracy to about 5%. ²	La Grange gage is located 0.5 miles downstream of La Grange Dam.
16.2	Tuolumne River at Modesto	USGS: 11290000	October 1 1970 – September 30 2010	Records are “fair”, except for estimated daily discharges which are “poor”. About 3% of the daily values since 1970 are estimated. ²	The flood control flow objective for the lower Tuolumne River is 9,000 cubic feet per second (cfs) at the Modesto Gage (RM 16.2). As Dry Creek confluences with the lower Tuolumne River just upstream of the Modesto gage, inflows from Dry Creek are accounted for the this management objective.
DRY CREEK					
--	Dry Creek at Tuolumne River Confluence	DWR: B04130/CDEC: DCM	October 1 1970 – September 30 2010	Qualifiers are provided: Good data, Estimated Data or Missing Data. About 1.2% of the daily values are estimated or missing.	Dry Creek is a tributary to the Tuolumne River at RM 16.2. Dry Creek operations changed substantially in 1987. Prior to 1987, substantially greater flows were diverted at LaGrange into the Modesto Canal in fall (October-December) months, with a portion being returned back to the Tuolumne River through Dry Creek.

USGS = US Geological Survey

DWR = Department of Water Resources

² USGS defines fair as having accuracy to approximately 8%, and poor as greater than 8% (Turnipseed, 2010). Typically natural bottomed streamflow measurements are considered “good” if accurate to about 5% (Turnipseed, 2010).

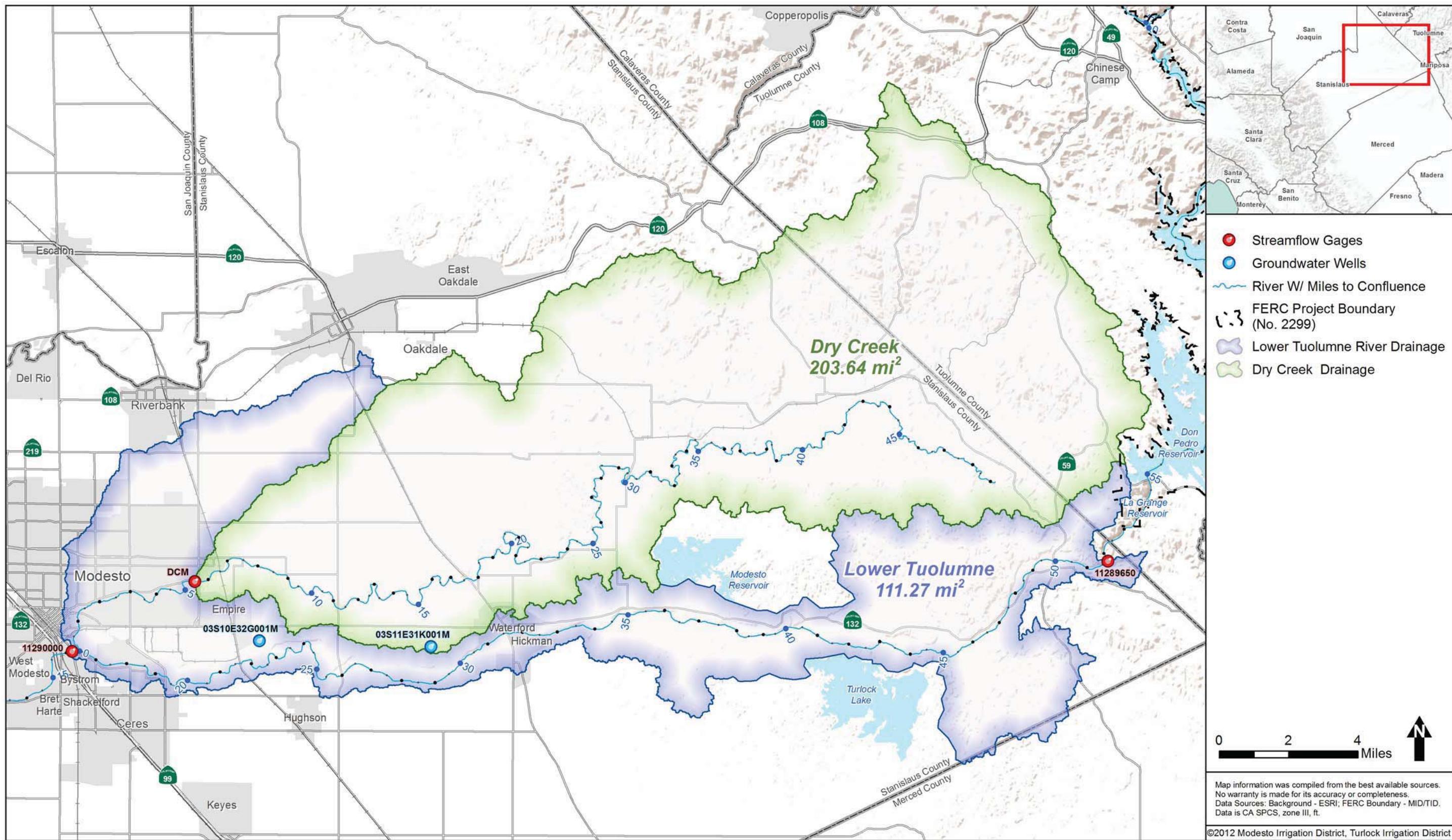


Figure 1. Map of lower Tuolumne drainage, Dry Creek drainage, and gages.

Using data collected at the three gages, accretion was calculated for the lower Tuolumne through the following equation:

$$\text{Accretion flow} = \text{Flow at the Modesto gage (cfs)} - \text{Flow at La Grange gage (cfs)} - \text{Flow at Dry Creek gage (cfs)}$$

Average daily accretions in the Lower Tuolumne range from 40 cfs to 200 cfs, with an annual average accretion of 218 cfs from water year 1970-1987 and 103 cfs from water year 1988-2010, resulting in a water year 1970-2010 average of 152 cfs (calculated daily accretion data are provided in Attachment B). Deviations from the average are highest in the winter months; as the flows increase, so does the uncertainty in the gage rating. The largest difference in flow observed was during the January 1997 storm; it has been determined that the computations are not reliable during large storm events due to the cumulative gage rating uncertainty associated with the calculation.

A review of the historical gage data from these three locations indicates a higher degree of variability of accretions than would be expected to naturally occur. For example, as shown in Figure 2, when calculated accretions¹ are graphed without any data smoothing or other adjustment, values are erratic and frequent negative flows are observed.

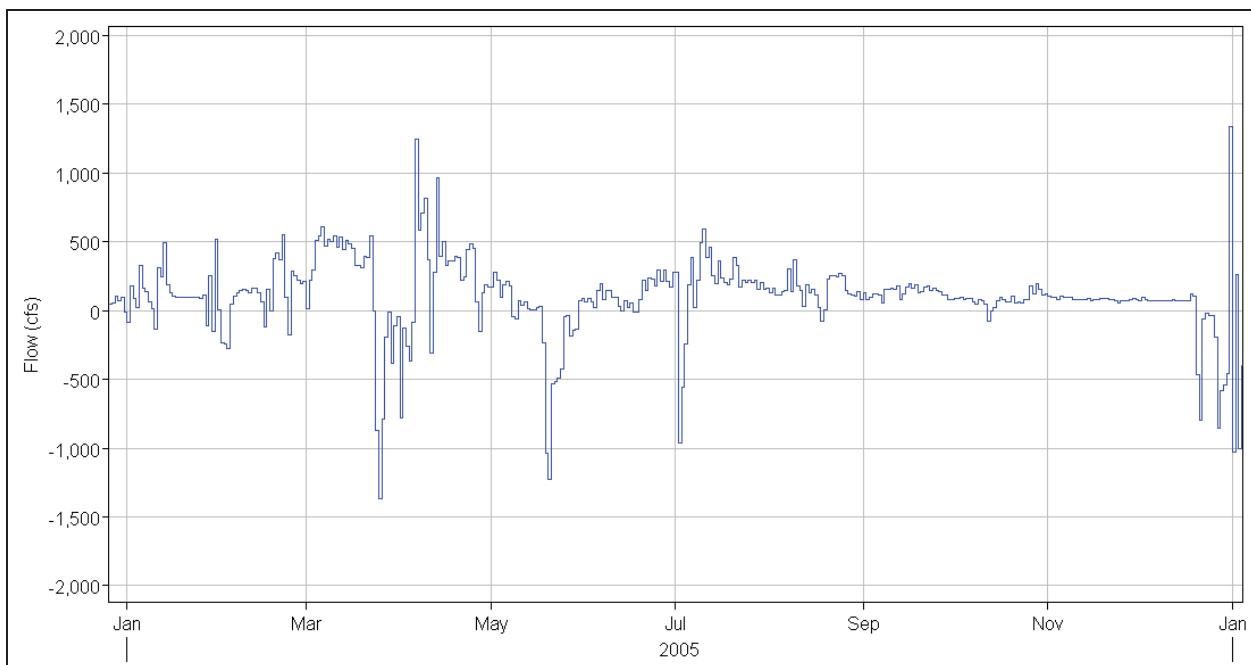


Figure 2. Sample computation of daily Lower Tuolumne accretion (flows at Modesto gage less La Grange gage and Dry Creek gage).

This variability is likely due to the relatively small magnitude of accretions compared to the actual gaged flow; relatively small errors and hydrograph timing differences and would explain much of the variability in accretions determined through a strict mathematical interpretation of

¹ It should be noted that this calculation does not allow for any travel time between locations; at the typical flow rates in the lower Tuolumne River, travel time would be expected to be on the order of hours rather than days.

USGS and DWR gage data. Additionally there may be agricultural withdrawals and return flows that are not being accounted for, as well as some interaction with the groundwater.

Inclusion of these data “as is” into the operations model will introduce variability that is distracting to the planning process, and at times invalid. A synthetic daily time series that represents the total accretion flow between La Grange Dam and the Modesto gage (including the contributions of Dry Creek) is therefore necessary to provide a reasonable estimate for modeling and planning purposes.

3.0 Methods

Due to the nature and quality of data, slightly different approaches were followed for synthesizing Dry Creek accretion and the lower Tuolumne accretion data sets. In addition, the total accretion calculations were split into two separate approaches for estimation of groundwater baseflow and surface runoff contributions. The two approaches are then aggregated to provide an estimate of total accretion.

3.1 Dry Creek

There are several locations within Dry Creek where accretion and depletion may occur. The gage on Dry Creek located about 5.6 miles upstream of the confluence with the Tuolumne River, is the best available approximation of the total flow at the mouth of Dry Creek.

Monthly synthetic baseflow values were then estimated using the average monthly flow rate in months that had less than $\frac{3}{4}$ inches of rain, representing periods with minimal expected surface runoff.

Surface runoff was estimated for Dry Creek manually using baseflow separation techniques. The entire period of record of the gage was examined graphically to determine if the flows recorded were likely to be surface runoff, baseflow, or return flow from irrigation canals. The synthetic baseflow values were then used to fill in all hydrograph values judged to be baseflow, or return flow.

Attachment A contains the synthetic flow record for Dry Creek for the period of 1970-2010, using the methods described above. Attachment B provides all the data files used to derive the synthetic flow record.

3.2 Lower Tuolumne

An estimate of total accretion for the 35.3 mile reach between the La Grange and Modesto gages was developed from the available gage data. Methods were separated into independent baseflow and surface runoff estimates, similar to the approach used to estimate Dry Creek accretion.

For the lower Tuolumne, the long-term daily median demonstrates the annual trend more clearly than the daily calculation using observed data, due to erratic swings in the daily calculation

between large values and negative values. Long-term daily median in this case is the 50% exceedance of each individual date across all years in the record (e.g. the 50% exceedance of all October 1st daily values from 1988 to 2010 is used to represent a single October 1st estimate). During periods of agricultural return flows, rainfall, or high flow, the values can be especially erratic, so the yearly median was examined for comparison to the yearly average.

The long-term daily median datasets were restricted to synthesized values from water year 1988-2010 because the pre-1987 Dry Creek flows from irrigation sources significantly impacted the gage calculation. A piece-wise linear synthetic time series was developed using visual inflection points from the yearly median, while honoring the annual volume estimate derived from the long-term daily median. This piece-wise linear estimation of the median annual accretion curve was then applied to the whole period (1970 to 2010). Figure 3 shows the annual median and resulting synthetic accretion. Attachment B contains the results of this computation.

The gage calculation was too erratic to be useful for surface runoff estimation. Therefore, a simple drainage area proration was applied to estimate surface runoff for the lower Tuolumne natural runoff accretion. This was done using the Dry Creek gage hydrographs, separated from baseflows as described in Section 3.1 above.

4.0 Results

4.1 Baseflow Calculations

Calculated daily time step accretions are provided in the accompanying Attachment B, along with supporting measured gage data.

Synthetic baseflow values² for Dry Creek are developed in Attachment B and summarized, by month, in Table 2. These values were inserted into the daily accretion series, provided in Attachment B.

Table 2. Synthetic baseflow rates for Dry Creek by month in cubic feet per second (cfs).

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10	30	30	40	45	50	55	70	65	30	3	1

Synthetic baseflow accretion values for the lower Tuolumne reach between La Grange and Modesto gages are developed in Attachment B and summarized by month in Figure 3.

² The observed base flow in Dry Creek likely includes agricultural return flows during the typical growing season of April through October. Flows typically recede sharply in November, suggesting the elimination of seasonal return flows.

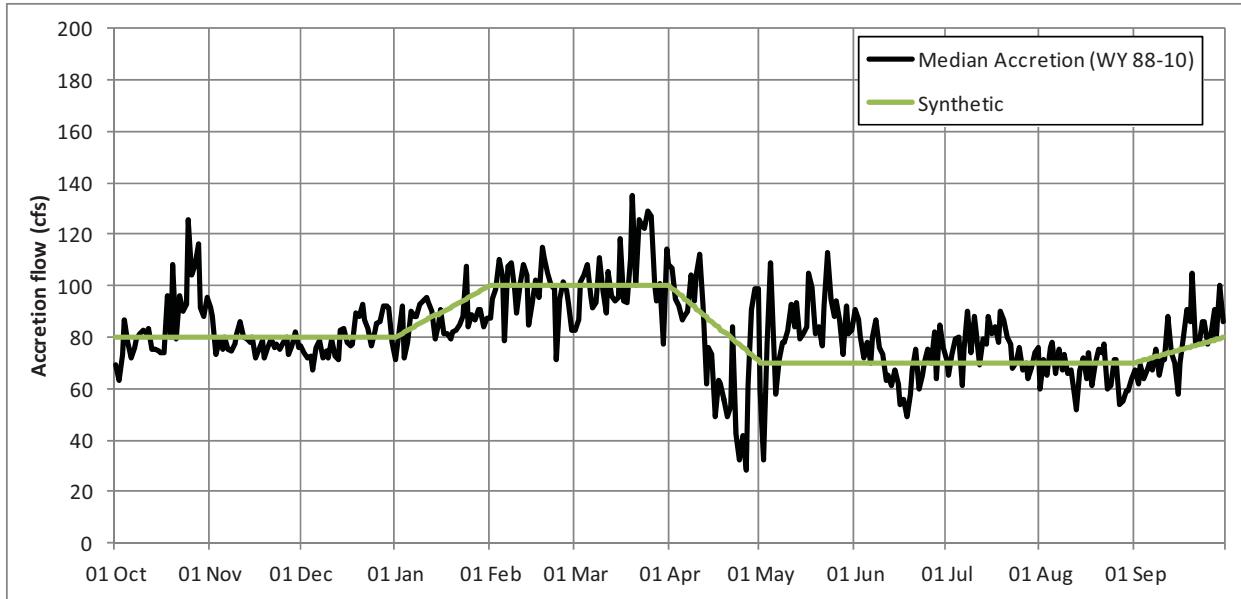


Figure 3. Synthetic accretion flow rates for lower Tuolumne in cubic feet per second (cfs).

4.2 Surface Runoff Calculations

The drainage area to the Dry Creek gage was measured to be 203.6 mi², and the accretion drainage area of the lower Tuolumne was measured to be 111.3 mi². This yields a proration factor of 0.5464, therefore all of the hydrographs separated for use in the Dry Creek synthetic time series were multiplied by 0.5464. A visual examination of the gage computation and synthetic time series for the lower Tuolumne demonstrated that erratic swings in the gage computation are coincident with runoff events in Dry Creek. An example of this phenomenon is shown in Figure 4.

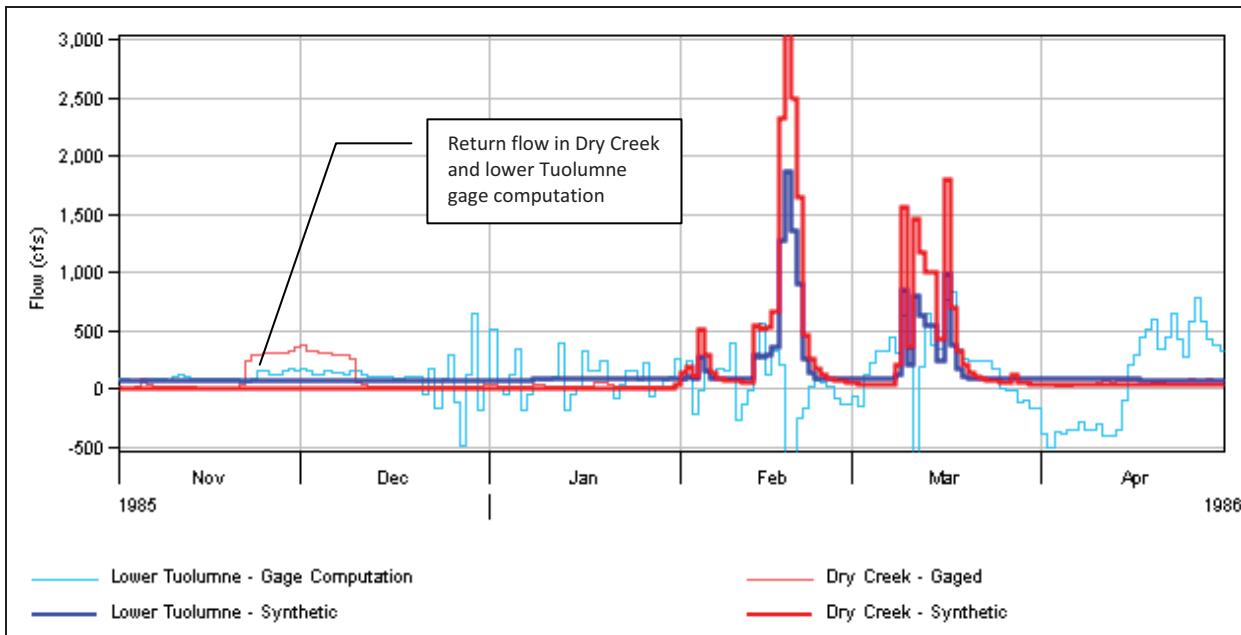


Figure 4. Sample synthetic and gaged data for lower Tuolumne accretion and Dry Creek.

5.0 Discussion

5.1 Dry Creek Accretion

From 1987 to 2011, the period for which Dry Creek operations have been relatively consistent, the volume of synthetic baseflow with observed surface runoff hydrographs is compared to the volume of the unaltered gage data in Figure 5, which indicates the synthetic baseflow values are an appropriate substitute for the gaged data.

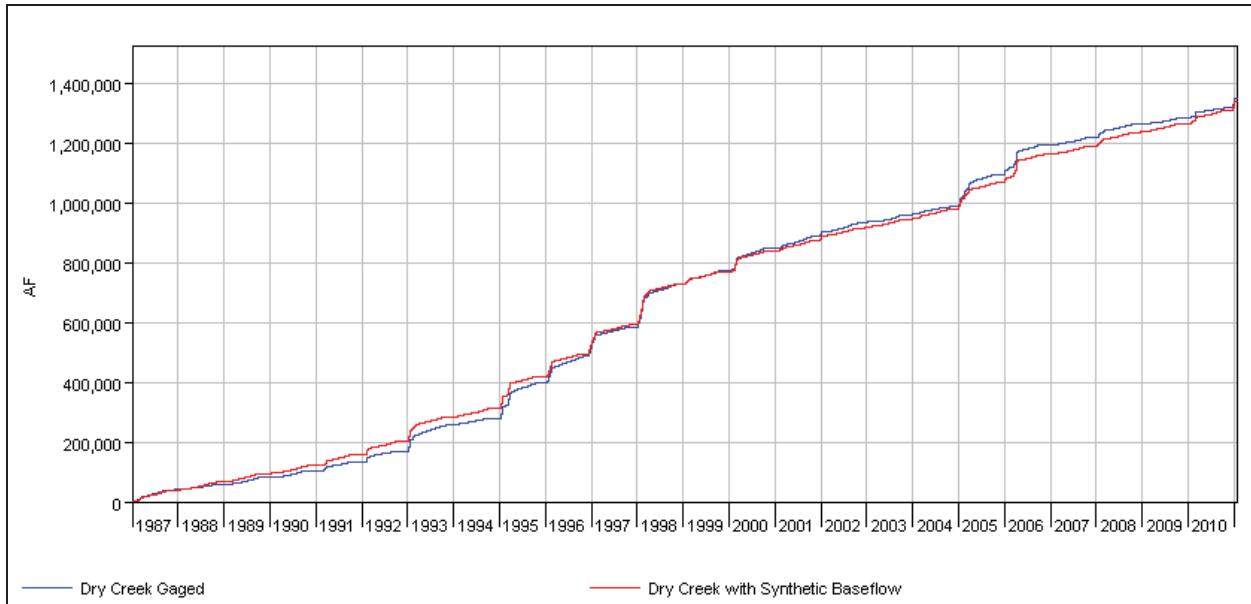


Figure 5. Dry Creek synthetic baseflow and gaged flow, cumulative volumes 1987-2010.

This comparison provides excellent validation in both the annual and long-term volumetric approach to accretion estimates in Dry Creek.

5.2 Lower Tuolumne Accretion

Below, the influence of groundwater synthetic baseflow volume is examined, followed by a comparison of the synthetic accretion dataset to the unaltered gage computation.

5.2.1 Groundwater Influence

The influence of groundwater interactions with the river on computed lower Tuolumne accretions (Modesto flows, less La Grange and Dry Creek) is further examined in Figure 6. The purpose of this examination is to explore the extreme variability in the accretion computation – whether it's due to gage errors, gage re-rating (Modesto gage has been at four different locations during this time³), or interactions with the groundwater. The location of two representative groundwater wells relative to the basin can be seen in Figure 1.

³United States Geologic Survey (USGS), 2010. *Water-Data Report 2010. 11290000 Tuolumne River at Modesto, CA.* <<http://wdr.water.usgs.gov/wy2010/pdfs/11290000.2010.pdf>>

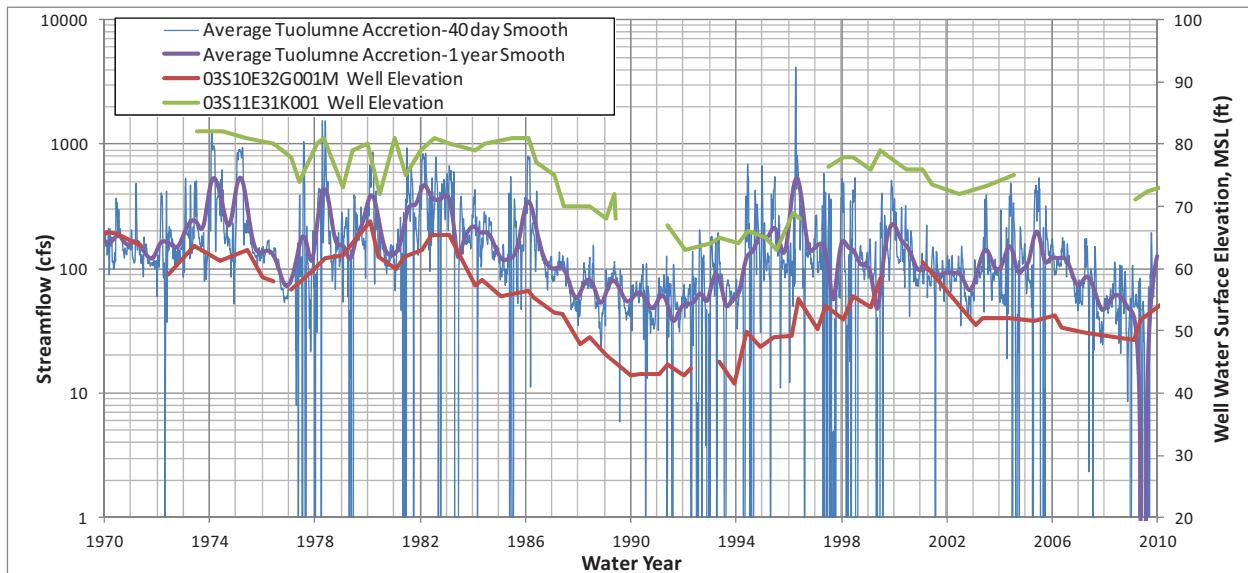


Figure 6. Relationship between lower Tuolumne accretion and groundwater wells 1970-2010.

It can be seen that baseflow and groundwater level roughly correspond to one another. Even though 1977 is the driest year in this period of record, it is a relatively short drought period, and groundwater levels do not have a chance to respond, but in the six-year drought period of 1987-1992, groundwater levels drop dramatically, and accretions respond accordingly.

Given that there is a demonstrated relationship between groundwater level and accretion, this leaves several factors that can cause the extreme variation in the daily time series.

- Gage lag-time and inaccuracy
- Local rainfall runoff
- Agricultural return flows and withdrawals
- Agricultural irrigation and M&I withdrawals from groundwater

Quantifying these factors would require many assumptions, as available information is highly uncertain and/or unavailable. It is possible that the periods of depletion in the time series are actually during groundwater pumping or they could be due to something else. Accounting for all of these factors in development of the synthetic accretion values would require many additional assumptions. Given the accuracy and precision of the input data, it could not be reported with any additional confidence.

5.2.2 Comparison to synthetic accretion

The synthetic accretion data set for the lower Tuolumne (Section 4.0) is checked against period of consistent hydrology (1987-2008) in Figure 7. In other words, Figure 7 shows the computed accretion volumes for the reach between the La Grange and Modesto gages compared to synthetic values.

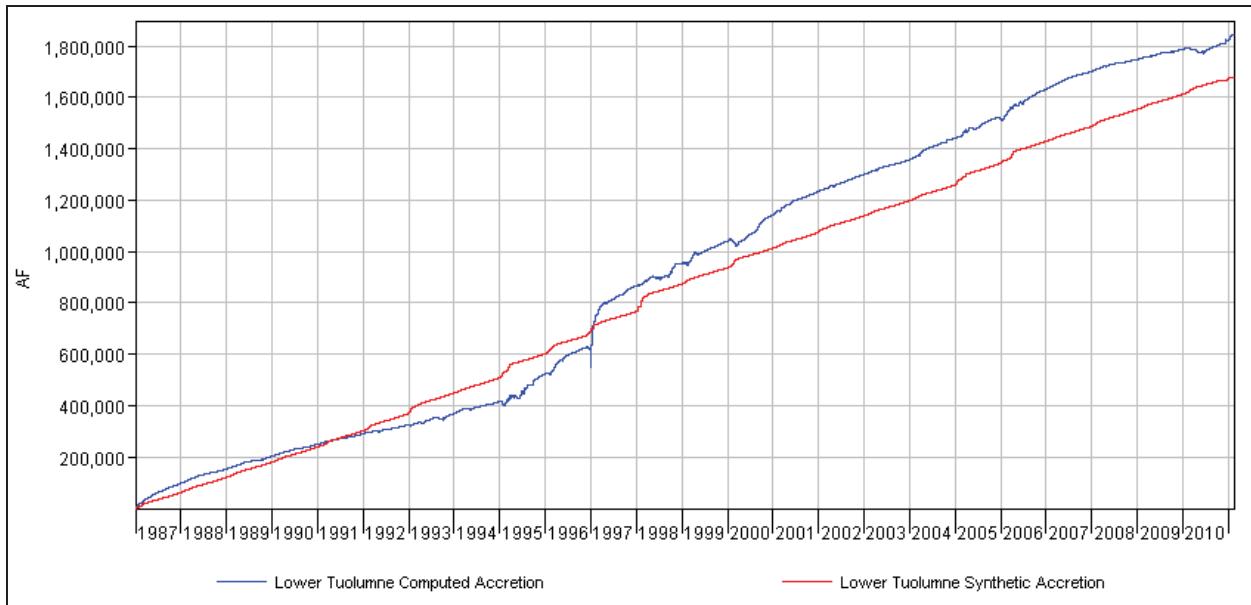


Figure 7. Lower Tuolumne River accretion, synthetic and computed, cumulative volumes (1987-2010).

A significant discontinuity can be seen following the New Years Day 1997 storm. Upon closer examination, it was found that following the 1997 flood, the gage at La Grange had to be re-rated, making its measurements during the storm unreliable. Further, the average accretion between Jan 2nd to Jan 10th 1997 from the gage calculation is about 4,000 cfs, which is just 7% of the peak flow observed at Modesto of 55,800 cfs, well within the margin or error for a three-gage calculation at high flow. If the discontinuity following the New Years Day storm is ignored, the cumulative volume of the synthetic accretion appears to match the cumulative volume of the computed accretion.

5.2.3 Comparison to Accretion Flows Measured in June 2012

On June 25, 2012, Modesto Irrigation District and Turlock Irrigation District collected flow information for the lower Tuolumne River between the La Grange Gage and the San Joaquin River confluence, as well as within Dry Creek. Table 3 presents the results of the measurement.

Table 3. Measured and gaged discharge on the Tuolumne River and Dry Creek.

Location	Measured Discharge (cfs)	Gaged Discharge (cfs)	Percent Difference (%)
Tuolumne at La Grange	114.9	130	12
Tuolumne at Modesto	208.2	219	5
Dry Creek ^a	55.5	38 ^b	46
Lower Tuolumne Accretion	55.3 ^c	-	-

^a Measured at confluence with Tuolumne River, 5.3 miles downstream of the gage.

^b Value from CDEC (DCM), not yet available on Water Data Library (B04130).

^c Using Dry Creek gaged discharge, rather than measured.

It is important to note that the Dry Creek measurement was not taken at the gage. The lower Tuolumne accretion calculation discussed herein uses values from the gage on Dry Creek, and does not attempt to subtract any accretions below the Dry Creek gage. The accretions in Dry Creek, below the gage, are therefore included in the lower Tuolumne accretion numbers. Another distinction to make is that the Dry Creek gage values are published twice, first in real time on CDEC (DCM), and later on the Water Data Library (B04130) after some quality control procedures by the California Department of Water Resources. The computations in this report used the Water Data Library values when available, and CDEC values only to fill in gaps in the record, and the values are often considerably different.

The synthetic baseflow value for Dry Creek in June is 50 cfs, which is in the range of values estimated by the measurement. The synthetic accretion for the lower Tuolumne in June (including accretion below the Dry Creek gage) is 70 cfs. In this case the synthetic accretion is more than the measured accretion (55 cfs), which could be due to lower groundwater levels in 2012. The lower amount could also be due to efforts to minimize all operational spills into the Tuolumne River during the measurement. Using the gaged measurements alone, the accretion would be estimated to be 51 cfs.

The Dry Creek gage has been deemed to provide the most reliable data for estimation for surface runoff-based accretion in the entire lower Tuolumne River drainage. Other elements of accretion estimation, such as groundwater contributions, have been estimated by honoring as much of the source data as possible in the lower Tuolumne. The resulting synthetic, aggregate hydrograph provides a reasonable estimate for both long-term and rainfall event-driven contributions to the lower Tuolumne River from the La Grange gage to the Modesto gage.

6.0 Attachments

This memo includes the following attachments:

- AttachmentA.pdf
- AttachmentB.dss

Attachment A contains the final time series data for Dry Creek, lower Tuolumne (excluding Dry Creek), and total accretion from La Grange to Modesto gage.

A brief description of each of the DSS tables that comprise Attachment B is provided as Table 3.

Table 3. Attachment B Contents, final datasets indicated with bold font.

Name - /LOWER TUOLUMNE/B/C//E/F/	Contents
//DRY CREEK/FLOW//1MON/BASEFLOW/	A time series containing averaged monthly baseflow values in months with less than 0.75" of precipitation (cfs)
//DRY CREEK/FLOW//1DAY/DCM_ADJUSTED/	Gaged flow at Dry Creek DWR record B04130 , combined with CDEC DCM, for missing days (cfs)
//DRY CREEK/FLOW//1DAY/HYD_ONLY/	Dry creek gaged flow, with baseflow deleted (cfs)
//DRY CREEK/FLOW//1DAY/SYNTHETIC/	Synthetic time series using BASEFLOW_EST in all places that HYD_ONLY is missing data (cfs)
//DRY CREEK 87/ACCUM//1DAY/DCM_ADJUSTED/	1987-2010 cumulative volume for gaged dry creek flow (acre-ft)
//DRY CREEK 87/ACCUM//1DAY/SYNTHETIC/	1987-2010 cumulative volume for SYNTHETIC dry creek

Name - /LOWER TUOLUMNE/B/C//E/F/	Contents
	dataset (acre-ft)
//TUOLUMNE ACCRETION/FLOW//1DAY/COMPUTED/	Time series of computation: Modesto [11290000] minus La Grange [11289650] and Dry Creek [DCM_ADJUSTED] (cfs)
//TUOLUMNE ACCRETION/FLOW//1DAY/BASEFLOW/	Generalized median of COMPUTED values from 1988 to 2010 (cfs)
//TUOLUMNE ACCRETION/FLOW//1DAY/HYD ONLY/	//DRY CREEK//HYD_ONLY/ times the drainage area proration of 0.5464 (cfs)
//TUOLUMNE ACCRETION/FLOW//1DAY/SYNTHETIC/	Synthetic time series using greater of HYD ONLY and BASEFLOW (cfs)
//TUOLUMNE ACCRETION 87/ACCUM//1DAY/COMPUTED/	1987-2010 cumulative volume of COMPUTED daily accretion (acre-ft)
//TUOLUMNE ACCRETION 87/ACCUM//1DAY/SYNTHETIC/	1987-2010 cumulative volume of SYNTHETIC daily accretion (acre-ft)

7.0 References

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TID/MID 2012. Study W&AR 2 Operations Model Action Item from April 9, 2012, Hydrology Workshop Proposed Lower Tuolumne Flow Accretion and Depletion Measurement Locations. Memo to Relicensing Participants. June 6.

Turnipseed, D.P., and Sauer, V.B., 2010, *Discharge measurements at gaging stations: U.S. Geological Survey Techniques and Methods book 3, chap. A8*, 87 p.
 <<http://pubs.usgs.gov/tm/tm3-a8/>>

	LOWER TUOLUMNE DRY CREEK FLOW	LOWER TUOLUMNE TUOLUMNE FLOW	LOWER TUOLUMNE ACCRETION FLOW	LOWER TUOLUMNE MODESTO - TOTAL ACCRETION FLOW
	SYNTHETIC CFS PER-AVER	SYNTHETIC CFS PER-AVER	SYNTHETIC CFS PER-AVER	SYNTHETIC CFS PER-AVER
01Oct1970	30.0	80.0	80.0	110.0
02Oct1970	30.0	80.0	80.0	110.0
03Oct1970	30.0	80.0	80.0	110.0
04Oct1970	30.0	80.0	80.0	110.0
05Oct1970	30.0	80.0	80.0	110.0
06Oct1970	30.0	80.0	80.0	110.0
07Oct1970	30.0	80.0	80.0	110.0
08Oct1970	30.0	80.0	80.0	110.0
09Oct1970	30.0	80.0	80.0	110.0
10Oct1970	30.0	80.0	80.0	110.0
11Oct1970	30.0	80.0	80.0	110.0
12Oct1970	30.0	80.0	80.0	110.0
13Oct1970	30.0	80.0	80.0	110.0
14Oct1970	30.0	80.0	80.0	110.0
15Oct1970	30.0	80.0	80.0	110.0
16Oct1970	30.0	80.0	80.0	110.0
17Oct1970	30.0	80.0	80.0	110.0
18Oct1970	30.0	80.0	80.0	110.0
19Oct1970	30.0	80.0	80.0	110.0
20Oct1970	30.0	80.0	80.0	110.0
21Oct1970	30.0	80.0	80.0	110.0
22Oct1970	30.0	80.0	80.0	110.0
23Oct1970	30.0	80.0	80.0	110.0
24Oct1970	30.0	80.0	80.0	110.0
25Oct1970	30.0	80.0	80.0	110.0
26Oct1970	30.0	80.0	80.0	110.0
27Oct1970	30.0	80.0	80.0	110.0
28Oct1970	30.0	80.0	80.0	110.0
29Oct1970	30.0	80.0	80.0	110.0
30Oct1970	30.0	80.0	80.0	110.0
31Oct1970	30.0	80.0	80.0	110.0
01Nov1970	3.0	80.0	80.0	83.0
02Nov1970	3.0	80.0	80.0	83.0
03Nov1970	3.0	80.0	80.0	83.0
04Nov1970	3.0	80.0	80.0	83.0
05Nov1970	3.0	80.0	80.0	83.0
06Nov1970	3.0	80.0	80.0	83.0
07Nov1970	3.0	80.0	80.0	83.0
08Nov1970	3.0	80.0	80.0	83.0
09Nov1970	3.0	80.0	80.0	83.0
10Nov1970	3.0	80.0	80.0	83.0
11Nov1970	3.0	80.0	80.0	83.0
12Nov1970	3.0	80.0	80.0	83.0
13Nov1970	3.0	80.0	80.0	83.0
14Nov1970	3.0	80.0	80.0	83.0
15Nov1970	3.0	80.0	80.0	83.0
16Nov1970	3.0	80.0	80.0	83.0
17Nov1970	3.0	80.0	80.0	83.0
18Nov1970	3.0	80.0	80.0	83.0

19Nov1970	3.0	80.0	83.0
20Nov1970	3.0	80.0	83.0
21Nov1970	3.0	80.0	83.0
22Nov1970	3.0	80.0	83.0
23Nov1970	3.0	80.0	83.0
24Nov1970	3.0	80.0	83.0
25Nov1970	19.0	80.0	99.0
26Nov1970	40.0	80.0	120.0
27Nov1970	38.0	80.0	118.0
28Nov1970	66.0	80.0	146.0
29Nov1970	334.0	182.5	516.5
30Nov1970	428.0	233.9	661.9
01Dec1970	253.0	138.2	391.2
02Dec1970	237.0	129.5	366.5
03Dec1970	407.0	222.4	629.4
04Dec1970	192.0	104.9	296.9
05Dec1970	133.0	80.0	213.0
06Dec1970	157.0	85.8	242.8
07Dec1970	105.0	80.0	185.0
08Dec1970	83.0	80.0	163.0
09Dec1970	69.0	80.0	149.0
10Dec1970	57.0	80.0	137.0
11Dec1970	59.0	80.0	139.0
12Dec1970	59.0	80.0	139.0
13Dec1970	48.0	80.0	128.0
14Dec1970	40.0	80.0	120.0
15Dec1970	35.0	80.0	115.0
16Dec1970	32.0	80.0	112.0
17Dec1970	30.0	80.0	110.0
18Dec1970	83.0	80.0	163.0
19Dec1970	108.0	80.0	188.0
20Dec1970	311.0	169.9	480.9
21Dec1970	186.0	101.6	287.6
22Dec1970	447.0	244.2	691.2
23Dec1970	269.0	147.0	416.0
24Dec1970	140.0	80.0	220.0
25Dec1970	104.0	80.0	184.0
26Dec1970	86.0	80.0	166.0
27Dec1970	77.0	80.0	157.0
28Dec1970	66.0	80.0	146.0
29Dec1970	72.0	80.0	152.0
30Dec1970	65.0	80.0	145.0
31Dec1970	53.0	80.0	133.0
01Jan1971	48.0	80.0	128.0
02Jan1971	47.0	80.6	127.6
03Jan1971	43.0	81.3	124.3
04Jan1971	43.0	81.9	124.9
05Jan1971	49.0	82.6	131.6
06Jan1971	39.0	83.2	122.2
07Jan1971	34.0	83.9	117.9
08Jan1971	32.0	84.5	116.5
09Jan1971	31.0	85.2	116.2
10Jan1971	28.0	85.8	113.8
11Jan1971	28.0	86.5	114.5
12Jan1971	30.0	87.1	117.1
13Jan1971	33.0	87.7	120.7

14Jan1971	136.0	88.4	224.4
15Jan1971	448.0	244.8	692.8
16Jan1971	178.0	97.3	275.3
17Jan1971	115.0	90.3	205.3
18Jan1971	92.0	91.0	183.0
19Jan1971	81.0	91.6	172.6
20Jan1971	69.0	92.3	161.3
21Jan1971	57.0	92.9	149.9
22Jan1971	48.0	93.5	141.5
23Jan1971	42.0	94.2	136.2
24Jan1971	38.0	94.8	132.8
25Jan1971	36.0	95.5	131.5
26Jan1971	34.0	96.1	130.1
27Jan1971	32.0	96.8	128.8
28Jan1971	30.0	97.4	127.4
29Jan1971	10.0	98.1	108.1
30Jan1971	10.0	98.7	108.7
31Jan1971	10.0	99.4	109.4
01Feb1971	30.0	100.0	130.0
02Feb1971	30.0	100.0	130.0
03Feb1971	30.0	100.0	130.0
04Feb1971	30.0	100.0	130.0
05Feb1971	30.0	100.0	130.0
06Feb1971	30.0	100.0	130.0
07Feb1971	30.0	100.0	130.0
08Feb1971	30.0	100.0	130.0
09Feb1971	30.0	100.0	130.0
10Feb1971	30.0	100.0	130.0
11Feb1971	30.0	100.0	130.0
12Feb1971	30.0	100.0	130.0
13Feb1971	30.0	100.0	130.0
14Feb1971	30.0	100.0	130.0
15Feb1971	30.0	100.0	130.0
16Feb1971	30.0	100.0	130.0
17Feb1971	30.0	100.0	130.0
18Feb1971	30.0	100.0	130.0
19Feb1971	30.0	100.0	130.0
20Feb1971	30.0	100.0	130.0
21Feb1971	30.0	100.0	130.0
22Feb1971	30.0	100.0	130.0
23Feb1971	30.0	100.0	130.0
24Feb1971	30.0	100.0	130.0
25Feb1971	30.0	100.0	130.0
26Feb1971	30.0	100.0	130.0
27Feb1971	30.0	100.0	130.0
28Feb1971	30.0	100.0	130.0
01Mar1971	30.0	100.0	130.0
02Mar1971	30.0	100.0	130.0
03Mar1971	30.0	100.0	130.0
04Mar1971	30.0	100.0	130.0
05Mar1971	30.0	100.0	130.0
06Mar1971	30.0	100.0	130.0
07Mar1971	30.0	100.0	130.0
08Mar1971	30.0	100.0	130.0
09Mar1971	30.0	100.0	130.0
10Mar1971	30.0	100.0	130.0

11Mar1971	30.0	100.0	130.0
12Mar1971	30.0	100.0	130.0
13Mar1971	30.0	100.0	130.0
14Mar1971	30.0	100.0	130.0
15Mar1971	30.0	100.0	130.0
16Mar1971	30.0	100.0	130.0
17Mar1971	30.0	100.0	130.0
18Mar1971	30.0	100.0	130.0
19Mar1971	30.0	100.0	130.0
20Mar1971	30.0	100.0	130.0
21Mar1971	30.0	100.0	130.0
22Mar1971	30.0	100.0	130.0
23Mar1971	30.0	100.0	130.0
24Mar1971	30.0	100.0	130.0
25Mar1971	30.0	100.0	130.0
26Mar1971	30.0	100.0	130.0
27Mar1971	30.0	100.0	130.0
28Mar1971	30.0	100.0	130.0
29Mar1971	30.0	100.0	130.0
30Mar1971	30.0	100.0	130.0
31Mar1971	30.0	100.0	130.0
01Apr1971	40.0	100.0	140.0
02Apr1971	40.0	99.0	139.0
03Apr1971	40.0	98.0	138.0
04Apr1971	40.0	97.0	137.0
05Apr1971	40.0	96.0	136.0
06Apr1971	40.0	95.0	135.0
07Apr1971	40.0	94.0	134.0
08Apr1971	40.0	93.0	133.0
09Apr1971	40.0	92.0	132.0
10Apr1971	40.0	91.0	131.0
11Apr1971	40.0	90.0	130.0
12Apr1971	40.0	89.0	129.0
13Apr1971	40.0	88.0	128.0
14Apr1971	40.0	87.0	127.0
15Apr1971	40.0	86.0	126.0
16Apr1971	40.0	85.0	125.0
17Apr1971	40.0	84.0	124.0
18Apr1971	40.0	83.0	123.0
19Apr1971	40.0	82.0	122.0
20Apr1971	40.0	81.0	121.0
21Apr1971	40.0	80.0	120.0
22Apr1971	40.0	79.0	119.0
23Apr1971	40.0	78.0	118.0
24Apr1971	40.0	77.0	117.0
25Apr1971	40.0	76.0	116.0
26Apr1971	40.0	75.0	115.0
27Apr1971	40.0	74.0	114.0
28Apr1971	40.0	73.0	113.0
29Apr1971	40.0	72.0	112.0
30Apr1971	40.0	71.0	111.0
01May1971	45.0	70.0	115.0
02May1971	45.0	70.0	115.0
03May1971	45.0	70.0	115.0
04May1971	45.0	70.0	115.0
05May1971	45.0	70.0	115.0

06May1971	45.0	70.0	115.0
07May1971	45.0	70.0	115.0
08May1971	45.0	70.0	115.0
09May1971	45.0	70.0	115.0
10May1971	45.0	70.0	115.0
11May1971	45.0	70.0	115.0
12May1971	45.0	70.0	115.0
13May1971	45.0	70.0	115.0
14May1971	45.0	70.0	115.0
15May1971	45.0	70.0	115.0
16May1971	45.0	70.0	115.0
17May1971	45.0	70.0	115.0
18May1971	45.0	70.0	115.0
19May1971	45.0	70.0	115.0
20May1971	45.0	70.0	115.0
21May1971	45.0	70.0	115.0
22May1971	45.0	70.0	115.0
23May1971	45.0	70.0	115.0
24May1971	45.0	70.0	115.0
25May1971	45.0	70.0	115.0
26May1971	45.0	70.0	115.0
27May1971	45.0	70.0	115.0
28May1971	45.0	70.0	115.0
29May1971	45.0	70.0	115.0
30May1971	45.0	70.0	115.0
31May1971	45.0	70.0	115.0
01Jun1971	50.0	70.0	120.0
02Jun1971	50.0	70.0	120.0
03Jun1971	50.0	70.0	120.0
04Jun1971	50.0	70.0	120.0
05Jun1971	50.0	70.0	120.0
06Jun1971	50.0	70.0	120.0
07Jun1971	50.0	70.0	120.0
08Jun1971	50.0	70.0	120.0
09Jun1971	50.0	70.0	120.0
10Jun1971	50.0	70.0	120.0
11Jun1971	50.0	70.0	120.0
12Jun1971	50.0	70.0	120.0
13Jun1971	50.0	70.0	120.0
14Jun1971	50.0	70.0	120.0
15Jun1971	50.0	70.0	120.0
16Jun1971	50.0	70.0	120.0
17Jun1971	50.0	70.0	120.0
18Jun1971	50.0	70.0	120.0
19Jun1971	50.0	70.0	120.0
20Jun1971	50.0	70.0	120.0
21Jun1971	50.0	70.0	120.0
22Jun1971	50.0	70.0	120.0
23Jun1971	50.0	70.0	120.0
24Jun1971	50.0	70.0	120.0
25Jun1971	50.0	70.0	120.0
26Jun1971	50.0	70.0	120.0
27Jun1971	50.0	70.0	120.0
28Jun1971	50.0	70.0	120.0
29Jun1971	50.0	70.0	120.0
30Jun1971	50.0	70.0	120.0

01Jul1971	55.0	70.0	125.0
02Jul1971	55.0	70.0	125.0
03Jul1971	55.0	70.0	125.0
04Jul1971	55.0	70.0	125.0
05Jul1971	55.0	70.0	125.0
06Jul1971	55.0	70.0	125.0
07Jul1971	55.0	70.0	125.0
08Jul1971	55.0	70.0	125.0
09Jul1971	55.0	70.0	125.0
10Jul1971	55.0	70.0	125.0
11Jul1971	55.0	70.0	125.0
12Jul1971	55.0	70.0	125.0
13Jul1971	55.0	70.0	125.0
14Jul1971	55.0	70.0	125.0
15Jul1971	55.0	70.0	125.0
16Jul1971	55.0	70.0	125.0
17Jul1971	55.0	70.0	125.0
18Jul1971	55.0	70.0	125.0
19Jul1971	55.0	70.0	125.0
20Jul1971	55.0	70.0	125.0
21Jul1971	55.0	70.0	125.0
22Jul1971	55.0	70.0	125.0
23Jul1971	55.0	70.0	125.0
24Jul1971	55.0	70.0	125.0
25Jul1971	55.0	70.0	125.0
26Jul1971	55.0	70.0	125.0
27Jul1971	55.0	70.0	125.0
28Jul1971	55.0	70.0	125.0
29Jul1971	55.0	70.0	125.0
30Jul1971	55.0	70.0	125.0
31Jul1971	55.0	70.0	125.0
01Aug1971	70.0	70.0	140.0
02Aug1971	70.0	70.0	140.0
03Aug1971	70.0	70.0	140.0
04Aug1971	70.0	70.0	140.0
05Aug1971	70.0	70.0	140.0
06Aug1971	70.0	70.0	140.0
07Aug1971	70.0	70.0	140.0
08Aug1971	70.0	70.0	140.0
09Aug1971	70.0	70.0	140.0
10Aug1971	70.0	70.0	140.0
11Aug1971	70.0	70.0	140.0
12Aug1971	70.0	70.0	140.0
13Aug1971	70.0	70.0	140.0
14Aug1971	70.0	70.0	140.0
15Aug1971	70.0	70.0	140.0
16Aug1971	70.0	70.0	140.0
17Aug1971	70.0	70.0	140.0
18Aug1971	70.0	70.0	140.0
19Aug1971	70.0	70.0	140.0
20Aug1971	70.0	70.0	140.0
21Aug1971	70.0	70.0	140.0
22Aug1971	70.0	70.0	140.0
23Aug1971	70.0	70.0	140.0
24Aug1971	70.0	70.0	140.0
25Aug1971	70.0	70.0	140.0

26Aug1971	70.0	70.0	140.0
27Aug1971	70.0	70.0	140.0
28Aug1971	70.0	70.0	140.0
29Aug1971	70.0	70.0	140.0
30Aug1971	70.0	70.0	140.0
31Aug1971	70.0	70.0	140.0
01Sep1971	65.0	70.0	135.0
02Sep1971	65.0	70.3	135.3
03Sep1971	65.0	70.7	135.7
04Sep1971	65.0	71.0	136.0
05Sep1971	65.0	71.3	136.3
06Sep1971	65.0	71.7	136.7
07Sep1971	65.0	72.0	137.0
08Sep1971	65.0	72.3	137.3
09Sep1971	65.0	72.7	137.7
10Sep1971	65.0	73.0	138.0
11Sep1971	65.0	73.3	138.3
12Sep1971	65.0	73.7	138.7
13Sep1971	65.0	74.0	139.0
14Sep1971	65.0	74.3	139.3
15Sep1971	65.0	74.7	139.7
16Sep1971	65.0	75.0	140.0
17Sep1971	65.0	75.3	140.3
18Sep1971	65.0	75.7	140.7
19Sep1971	65.0	76.0	141.0
20Sep1971	65.0	76.3	141.3
21Sep1971	65.0	76.7	141.7
22Sep1971	65.0	77.0	142.0
23Sep1971	65.0	77.3	142.3
24Sep1971	65.0	77.7	142.7
25Sep1971	65.0	78.0	143.0
26Sep1971	65.0	78.3	143.3
27Sep1971	65.0	78.7	143.7
28Sep1971	65.0	79.0	144.0
29Sep1971	65.0	79.3	144.3
30Sep1971	65.0	79.7	144.7
01Oct1971	30.0	80.0	110.0
02Oct1971	30.0	80.0	110.0
03Oct1971	30.0	80.0	110.0
04Oct1971	30.0	80.0	110.0
05Oct1971	30.0	80.0	110.0
06Oct1971	30.0	80.0	110.0
07Oct1971	30.0	80.0	110.0
08Oct1971	30.0	80.0	110.0
09Oct1971	30.0	80.0	110.0
10Oct1971	30.0	80.0	110.0
11Oct1971	30.0	80.0	110.0
12Oct1971	30.0	80.0	110.0
13Oct1971	30.0	80.0	110.0
14Oct1971	30.0	80.0	110.0
15Oct1971	30.0	80.0	110.0
16Oct1971	30.0	80.0	110.0
17Oct1971	30.0	80.0	110.0
18Oct1971	30.0	80.0	110.0
19Oct1971	30.0	80.0	110.0
20Oct1971	30.0	80.0	110.0

21Oct1971	30.0	80.0	110.0
22Oct1971	30.0	80.0	110.0
23Oct1971	30.0	80.0	110.0
24Oct1971	30.0	80.0	110.0
25Oct1971	30.0	80.0	110.0
26Oct1971	30.0	80.0	110.0
27Oct1971	30.0	80.0	110.0
28Oct1971	30.0	80.0	110.0
29Oct1971	30.0	80.0	110.0
30Oct1971	30.0	80.0	110.0
31Oct1971	30.0	80.0	110.0
01Nov1971	3.0	80.0	83.0
02Nov1971	3.0	80.0	83.0
03Nov1971	3.0	80.0	83.0
04Nov1971	3.0	80.0	83.0
05Nov1971	3.0	80.0	83.0
06Nov1971	3.0	80.0	83.0
07Nov1971	3.0	80.0	83.0
08Nov1971	3.0	80.0	83.0
09Nov1971	3.0	80.0	83.0
10Nov1971	3.0	80.0	83.0
11Nov1971	3.0	80.0	83.0
12Nov1971	3.0	80.0	83.0
13Nov1971	3.0	80.0	83.0
14Nov1971	3.0	80.0	83.0
15Nov1971	3.0	80.0	83.0
16Nov1971	3.0	80.0	83.0
17Nov1971	3.0	80.0	83.0
18Nov1971	3.0	80.0	83.0
19Nov1971	3.0	80.0	83.0
20Nov1971	3.0	80.0	83.0
21Nov1971	3.0	80.0	83.0
22Nov1971	3.0	80.0	83.0
23Nov1971	3.0	80.0	83.0
24Nov1971	3.0	80.0	83.0
25Nov1971	3.0	80.0	83.0
26Nov1971	3.0	80.0	83.0
27Nov1971	3.0	80.0	83.0
28Nov1971	3.0	80.0	83.0
29Nov1971	3.0	80.0	83.0
30Nov1971	3.0	80.0	83.0
01Dec1971	1.0	80.0	81.0
02Dec1971	1.0	80.0	81.0
03Dec1971	1.0	80.0	81.0
04Dec1971	1.0	80.0	81.0
05Dec1971	1.0	80.0	81.0
06Dec1971	1.0	80.0	81.0
07Dec1971	1.0	80.0	81.0
08Dec1971	1.0	80.0	81.0
09Dec1971	1.0	80.0	81.0
10Dec1971	1.0	80.0	81.0
11Dec1971	1.0	80.0	81.0
12Dec1971	1.0	80.0	81.0
13Dec1971	1.0	80.0	81.0
14Dec1971	1.0	80.0	81.0
15Dec1971	1.0	80.0	81.0

16Dec1971	1.0	80.0	81.0
17Dec1971	1.0	80.0	81.0
18Dec1971	1.0	80.0	81.0
19Dec1971	1.0	80.0	81.0
20Dec1971	1.0	80.0	81.0
21Dec1971	1.0	80.0	81.0
22Dec1971	16.0	80.0	96.0
23Dec1971	47.0	80.0	127.0
24Dec1971	88.0	80.0	168.0
25Dec1971	142.0	80.0	222.0
26Dec1971	327.0	178.7	505.7
27Dec1971	225.0	122.9	347.9
28Dec1971	336.0	183.6	519.6
29Dec1971	473.0	258.5	731.5
30Dec1971	151.0	82.5	233.5
31Dec1971	93.0	80.0	173.0
01Jan1972	77.0	80.0	157.0
02Jan1972	52.0	80.6	132.6
03Jan1972	37.0	81.3	118.3
04Jan1972	28.0	81.9	109.9
05Jan1972	24.0	82.6	106.6
06Jan1972	21.0	83.2	104.2
07Jan1972	19.0	83.9	102.9
08Jan1972	17.0	84.5	101.5
09Jan1972	16.0	85.2	101.2
10Jan1972	16.0	85.8	101.8
11Jan1972	14.0	86.5	100.5
12Jan1972	13.0	87.1	100.1
13Jan1972	11.0	87.7	98.7
14Jan1972	11.0	88.4	99.4
15Jan1972	10.0	89.0	99.0
16Jan1972	10.0	89.7	99.7
17Jan1972	10.0	90.3	100.3
18Jan1972	10.0	91.0	101.0
19Jan1972	10.0	91.6	101.6
20Jan1972	10.0	92.3	102.3
21Jan1972	10.0	92.9	102.9
22Jan1972	10.0	93.5	103.5
23Jan1972	10.0	94.2	104.2
24Jan1972	10.0	94.8	104.8
25Jan1972	10.0	95.5	105.5
26Jan1972	10.0	96.1	106.1
27Jan1972	10.0	96.8	106.8
28Jan1972	148.0	97.4	245.4
29Jan1972	315.0	172.1	487.1
30Jan1972	116.0	98.7	214.7
31Jan1972	71.0	99.4	170.4
01Feb1972	46.0	100.0	146.0
02Feb1972	37.0	100.0	137.0
03Feb1972	30.0	100.0	130.0
04Feb1972	25.0	100.0	125.0
05Feb1972	26.0	100.0	126.0
06Feb1972	98.0	100.0	198.0
07Feb1972	244.0	133.3	377.3
08Feb1972	119.0	100.0	219.0
09Feb1972	83.0	100.0	183.0

10Feb1972	59.0	100.0	159.0
11Feb1972	44.0	100.0	144.0
12Feb1972	37.0	100.0	137.0
13Feb1972	31.0	100.0	131.0
14Feb1972	30.0	100.0	130.0
15Feb1972	30.0	100.0	130.0
16Feb1972	30.0	100.0	130.0
17Feb1972	30.0	100.0	130.0
18Feb1972	30.0	100.0	130.0
19Feb1972	30.0	100.0	130.0
20Feb1972	30.0	100.0	130.0
21Feb1972	30.0	100.0	130.0
22Feb1972	30.0	100.0	130.0
23Feb1972	30.0	100.0	130.0
24Feb1972	30.0	100.0	130.0
25Feb1972	30.0	100.0	130.0
26Feb1972	30.0	100.0	130.0
27Feb1972	30.0	100.0	130.0
28Feb1972	30.0	100.0	130.0
29Feb1972	30.0	100.0	130.0
01Mar1972	30.0	100.0	130.0
02Mar1972	30.0	100.0	130.0
03Mar1972	30.0	100.0	130.0
04Mar1972	30.0	100.0	130.0
05Mar1972	30.0	100.0	130.0
06Mar1972	30.0	100.0	130.0
07Mar1972	30.0	100.0	130.0
08Mar1972	30.0	100.0	130.0
09Mar1972	30.0	100.0	130.0
10Mar1972	30.0	100.0	130.0
11Mar1972	30.0	100.0	130.0
12Mar1972	30.0	100.0	130.0
13Mar1972	30.0	100.0	130.0
14Mar1972	30.0	100.0	130.0
15Mar1972	30.0	100.0	130.0
16Mar1972	30.0	100.0	130.0
17Mar1972	30.0	100.0	130.0
18Mar1972	30.0	100.0	130.0
19Mar1972	30.0	100.0	130.0
20Mar1972	30.0	100.0	130.0
21Mar1972	30.0	100.0	130.0
22Mar1972	30.0	100.0	130.0
23Mar1972	30.0	100.0	130.0
24Mar1972	30.0	100.0	130.0
25Mar1972	30.0	100.0	130.0
26Mar1972	30.0	100.0	130.0
27Mar1972	30.0	100.0	130.0
28Mar1972	30.0	100.0	130.0
29Mar1972	30.0	100.0	130.0
30Mar1972	30.0	100.0	130.0
31Mar1972	30.0	100.0	130.0
01Apr1972	40.0	100.0	140.0
02Apr1972	40.0	99.0	139.0
03Apr1972	40.0	98.0	138.0
04Apr1972	40.0	97.0	137.0
05Apr1972	40.0	96.0	136.0

06Apr1972	40.0	95.0	135.0
07Apr1972	40.0	94.0	134.0
08Apr1972	40.0	93.0	133.0
09Apr1972	40.0	92.0	132.0
10Apr1972	40.0	91.0	131.0
11Apr1972	40.0	90.0	130.0
12Apr1972	40.0	89.0	129.0
13Apr1972	40.0	88.0	128.0
14Apr1972	40.0	87.0	127.0
15Apr1972	40.0	86.0	126.0
16Apr1972	40.0	85.0	125.0
17Apr1972	40.0	84.0	124.0
18Apr1972	40.0	83.0	123.0
19Apr1972	40.0	82.0	122.0
20Apr1972	40.0	81.0	121.0
21Apr1972	40.0	80.0	120.0
22Apr1972	40.0	79.0	119.0
23Apr1972	40.0	78.0	118.0
24Apr1972	40.0	77.0	117.0
25Apr1972	40.0	76.0	116.0
26Apr1972	40.0	75.0	115.0
27Apr1972	40.0	74.0	114.0
28Apr1972	40.0	73.0	113.0
29Apr1972	40.0	72.0	112.0
30Apr1972	40.0	71.0	111.0
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03May1972	45.0	70.0	115.0
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24May1972	45.0	70.0	115.0
25May1972	45.0	70.0	115.0
26May1972	45.0	70.0	115.0
27May1972	45.0	70.0	115.0
28May1972	45.0	70.0	115.0
29May1972	45.0	70.0	115.0
30May1972	45.0	70.0	115.0
31May1972	45.0	70.0	115.0

01Jun1972	50.0	70.0	120.0
02Jun1972	50.0	70.0	120.0
03Jun1972	50.0	70.0	120.0
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06Jun1972	50.0	70.0	120.0
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11Jun1972	50.0	70.0	120.0
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23Jun1972	50.0	70.0	120.0
24Jun1972	50.0	70.0	120.0
25Jun1972	50.0	70.0	120.0
26Jun1972	50.0	70.0	120.0
27Jun1972	50.0	70.0	120.0
28Jun1972	50.0	70.0	120.0
29Jun1972	50.0	70.0	120.0
30Jun1972	50.0	70.0	120.0
01Jul1972	55.0	70.0	125.0
02Jul1972	55.0	70.0	125.0
03Jul1972	55.0	70.0	125.0
04Jul1972	55.0	70.0	125.0
05Jul1972	55.0	70.0	125.0
06Jul1972	55.0	70.0	125.0
07Jul1972	55.0	70.0	125.0
08Jul1972	55.0	70.0	125.0
09Jul1972	55.0	70.0	125.0
10Jul1972	55.0	70.0	125.0
11Jul1972	55.0	70.0	125.0
12Jul1972	55.0	70.0	125.0
13Jul1972	55.0	70.0	125.0
14Jul1972	55.0	70.0	125.0
15Jul1972	55.0	70.0	125.0
16Jul1972	55.0	70.0	125.0
17Jul1972	55.0	70.0	125.0
18Jul1972	55.0	70.0	125.0
19Jul1972	55.0	70.0	125.0
20Jul1972	55.0	70.0	125.0
21Jul1972	55.0	70.0	125.0
22Jul1972	55.0	70.0	125.0
23Jul1972	55.0	70.0	125.0
24Jul1972	55.0	70.0	125.0
25Jul1972	55.0	70.0	125.0
26Jul1972	55.0	70.0	125.0

27Jul1972	55.0	70.0	125.0
28Jul1972	55.0	70.0	125.0
29Jul1972	55.0	70.0	125.0
30Jul1972	55.0	70.0	125.0
31Jul1972	55.0	70.0	125.0
01Aug1972	70.0	70.0	140.0
02Aug1972	70.0	70.0	140.0
03Aug1972	70.0	70.0	140.0
04Aug1972	70.0	70.0	140.0
05Aug1972	70.0	70.0	140.0
06Aug1972	70.0	70.0	140.0
07Aug1972	70.0	70.0	140.0
08Aug1972	70.0	70.0	140.0
09Aug1972	70.0	70.0	140.0
10Aug1972	70.0	70.0	140.0
11Aug1972	70.0	70.0	140.0
12Aug1972	70.0	70.0	140.0
13Aug1972	70.0	70.0	140.0
14Aug1972	70.0	70.0	140.0
15Aug1972	70.0	70.0	140.0
16Aug1972	70.0	70.0	140.0
17Aug1972	70.0	70.0	140.0
18Aug1972	70.0	70.0	140.0
19Aug1972	70.0	70.0	140.0
20Aug1972	70.0	70.0	140.0
21Aug1972	70.0	70.0	140.0
22Aug1972	70.0	70.0	140.0
23Aug1972	70.0	70.0	140.0
24Aug1972	70.0	70.0	140.0
25Aug1972	70.0	70.0	140.0
26Aug1972	70.0	70.0	140.0
27Aug1972	70.0	70.0	140.0
28Aug1972	70.0	70.0	140.0
29Aug1972	70.0	70.0	140.0
30Aug1972	70.0	70.0	140.0
31Aug1972	70.0	70.0	140.0
01Sep1972	65.0	70.0	135.0
02Sep1972	65.0	70.3	135.3
03Sep1972	65.0	70.7	135.7
04Sep1972	65.0	71.0	136.0
05Sep1972	65.0	71.3	136.3
06Sep1972	65.0	71.7	136.7
07Sep1972	65.0	72.0	137.0
08Sep1972	65.0	72.3	137.3
09Sep1972	65.0	72.7	137.7
10Sep1972	65.0	73.0	138.0
11Sep1972	65.0	73.3	138.3
12Sep1972	65.0	73.7	138.7
13Sep1972	65.0	74.0	139.0
14Sep1972	65.0	74.3	139.3
15Sep1972	65.0	74.7	139.7
16Sep1972	65.0	75.0	140.0
17Sep1972	65.0	75.3	140.3
18Sep1972	65.0	75.7	140.7
19Sep1972	65.0	76.0	141.0
20Sep1972	65.0	76.3	141.3

21Sep1972	65.0	76.7	141.7
22Sep1972	65.0	77.0	142.0
23Sep1972	65.0	77.3	142.3
24Sep1972	65.0	77.7	142.7
25Sep1972	65.0	78.0	143.0
26Sep1972	65.0	78.3	143.3
27Sep1972	65.0	78.7	143.7
28Sep1972	65.0	79.0	144.0
29Sep1972	65.0	79.3	144.3
30Sep1972	65.0	79.7	144.7
01Oct1972	30.0	80.0	110.0
02Oct1972	30.0	80.0	110.0
03Oct1972	30.0	80.0	110.0
04Oct1972	30.0	80.0	110.0
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26Oct1972	30.0	80.0	110.0
27Oct1972	30.0	80.0	110.0
28Oct1972	30.0	80.0	110.0
29Oct1972	30.0	80.0	110.0
30Oct1972	30.0	80.0	110.0
31Oct1972	30.0	80.0	110.0
01Nov1972	3.0	80.0	83.0
02Nov1972	3.0	80.0	83.0
03Nov1972	3.0	80.0	83.0
04Nov1972	3.0	80.0	83.0
05Nov1972	3.0	80.0	83.0
06Nov1972	3.0	80.0	83.0
07Nov1972	3.0	80.0	83.0
08Nov1972	3.0	80.0	83.0
09Nov1972	3.0	80.0	83.0
10Nov1972	3.0	80.0	83.0
11Nov1972	3.0	80.0	83.0
12Nov1972	3.0	80.0	83.0
13Nov1972	3.0	80.0	83.0
14Nov1972	3.0	80.0	83.0
15Nov1972	3.0	80.0	83.0

16Nov1972	3.0	80.0	83.0
17Nov1972	3.0	80.0	83.0
18Nov1972	3.0	80.0	83.0
19Nov1972	3.0	80.0	83.0
20Nov1972	3.0	80.0	83.0
21Nov1972	3.0	80.0	83.0
22Nov1972	3.0	80.0	83.0
23Nov1972	3.0	80.0	83.0
24Nov1972	3.0	80.0	83.0
25Nov1972	3.0	80.0	83.0
26Nov1972	3.0	80.0	83.0
27Nov1972	3.0	80.0	83.0
28Nov1972	3.0	80.0	83.0
29Nov1972	3.0	80.0	83.0
30Nov1972	3.0	80.0	83.0
01Dec1972	1.0	80.0	81.0
02Dec1972	1.0	80.0	81.0
03Dec1972	1.0	80.0	81.0
04Dec1972	1.0	80.0	81.0
05Dec1972	1.0	80.0	81.0
06Dec1972	1.0	80.0	81.0
07Dec1972	1.0	80.0	81.0
08Dec1972	1.0	80.0	81.0
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11Dec1972	1.0	80.0	81.0
12Dec1972	1.0	80.0	81.0
13Dec1972	1.0	80.0	81.0
14Dec1972	1.0	80.0	81.0
15Dec1972	1.0	80.0	81.0
16Dec1972	1.0	80.0	81.0
17Dec1972	1.0	80.0	81.0
18Dec1972	1.0	80.0	81.0
19Dec1972	1.0	80.0	81.0
20Dec1972	1.0	80.0	81.0
21Dec1972	1.0	80.0	81.0
22Dec1972	1.0	80.0	81.0
23Dec1972	1.0	80.0	81.0
24Dec1972	1.0	80.0	81.0
25Dec1972	1.0	80.0	81.0
26Dec1972	1.0	80.0	81.0
27Dec1972	1.0	80.0	81.0
28Dec1972	1.0	80.0	81.0
29Dec1972	1.0	80.0	81.0
30Dec1972	1.0	80.0	81.0
31Dec1972	1.0	80.0	81.0
01Jan1973	10.0	80.0	90.0
02Jan1973	10.0	80.6	90.6
03Jan1973	10.0	81.3	91.3
04Jan1973	23.0	81.9	104.9
05Jan1973	72.0	82.6	154.6
06Jan1973	111.0	83.2	194.2
07Jan1973	121.0	83.9	204.9
08Jan1973	125.0	84.5	209.5
09Jan1973	140.0	85.2	225.2
10Jan1973	487.0	266.1	753.1

11Jan1973	959.0	524.0	1483.0
12Jan1973	727.0	397.2	1124.2
13Jan1973	1150.0	628.4	1778.4
14Jan1973	295.0	161.2	456.2
15Jan1973	159.0	89.0	248.0
16Jan1973	203.0	110.9	313.9
17Jan1973	1920.0	1049.1	2969.1
18Jan1973	972.0	531.1	1503.1
19Jan1973	677.0	369.9	1046.9
20Jan1973	403.0	220.2	623.2
21Jan1973	183.0	100.0	283.0
22Jan1973	138.0	93.5	231.5
23Jan1973	117.0	94.2	211.2
24Jan1973	104.0	94.8	198.8
25Jan1973	95.0	95.5	190.5
26Jan1973	92.0	96.1	188.1
27Jan1973	94.0	96.8	190.8
28Jan1973	94.0	97.4	191.4
29Jan1973	81.0	98.1	179.1
30Jan1973	88.0	98.7	186.7
31Jan1973	472.0	257.9	729.9
01Feb1973	228.0	124.6	352.6
02Feb1973	131.0	100.0	231.0
03Feb1973	103.0	100.0	203.0
04Feb1973	90.0	100.0	190.0
05Feb1973	97.0	100.0	197.0
06Feb1973	113.0	100.0	213.0
07Feb1973	214.0	116.9	330.9
08Feb1973	237.0	129.5	366.5
09Feb1973	140.0	100.0	240.0
10Feb1973	143.0	100.0	243.0
11Feb1973	1790.0	978.1	2768.1
12Feb1973	4690.0	2562.6	7252.6
13Feb1973	1480.0	808.7	2288.7
14Feb1973	649.0	354.6	1003.6
15Feb1973	968.0	528.9	1496.9
16Feb1973	420.0	229.5	649.5
17Feb1973	240.0	131.1	371.1
18Feb1973	184.0	100.5	284.5
19Feb1973	155.0	100.0	255.0
20Feb1973	137.0	100.0	237.0
21Feb1973	124.0	100.0	224.0
22Feb1973	116.0	100.0	216.0
23Feb1973	111.0	100.0	211.0
24Feb1973	107.0	100.0	207.0
25Feb1973	158.0	100.0	258.0
26Feb1973	212.0	115.8	327.8
27Feb1973	166.0	100.0	266.0
28Feb1973	1230.0	672.1	1902.1
01Mar1973	757.0	413.6	1170.6
02Mar1973	250.0	136.6	386.6
03Mar1973	172.0	100.0	272.0
04Mar1973	261.0	142.6	403.6
05Mar1973	322.0	175.9	497.9
06Mar1973	164.0	100.0	264.0
07Mar1973	371.0	202.7	573.7

08Mar1973	850.0	464.4	1314.4
09Mar1973	1400.0	765.0	2165.0
10Mar1973	284.0	155.2	439.2
11Mar1973	166.0	100.0	266.0
12Mar1973	194.0	106.0	300.0
13Mar1973	122.0	100.0	222.0
14Mar1973	102.0	100.0	202.0
15Mar1973	95.0	100.0	195.0
16Mar1973	81.0	100.0	181.0
17Mar1973	69.0	100.0	169.0
18Mar1973	60.0	100.0	160.0
19Mar1973	56.0	100.0	156.0
20Mar1973	86.0	100.0	186.0
21Mar1973	477.0	260.6	737.6
22Mar1973	267.0	145.9	412.9
23Mar1973	291.0	159.0	450.0
24Mar1973	125.0	100.0	225.0
25Mar1973	97.0	100.0	197.0
26Mar1973	185.0	101.1	286.1
27Mar1973	487.0	266.1	753.1
28Mar1973	147.0	100.0	247.0
29Mar1973	104.0	100.0	204.0
30Mar1973	83.0	100.0	183.0
31Mar1973	70.0	100.0	170.0
01Apr1973	64.0	100.0	164.0
02Apr1973	66.0	99.0	165.0
03Apr1973	58.0	98.0	156.0
04Apr1973	57.0	97.0	154.0
05Apr1973	40.0	96.0	136.0
06Apr1973	40.0	95.0	135.0
07Apr1973	40.0	94.0	134.0
08Apr1973	40.0	93.0	133.0
09Apr1973	40.0	92.0	132.0
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11Apr1973	40.0	90.0	130.0
12Apr1973	40.0	89.0	129.0
13Apr1973	40.0	88.0	128.0
14Apr1973	40.0	87.0	127.0
15Apr1973	40.0	86.0	126.0
16Apr1973	40.0	85.0	125.0
17Apr1973	40.0	84.0	124.0
18Apr1973	40.0	83.0	123.0
19Apr1973	40.0	82.0	122.0
20Apr1973	40.0	81.0	121.0
21Apr1973	40.0	80.0	120.0
22Apr1973	40.0	79.0	119.0
23Apr1973	40.0	78.0	118.0
24Apr1973	40.0	77.0	117.0
25Apr1973	40.0	76.0	116.0
26Apr1973	40.0	75.0	115.0
27Apr1973	40.0	74.0	114.0
28Apr1973	40.0	73.0	113.0
29Apr1973	40.0	72.0	112.0
30Apr1973	40.0	71.0	111.0
01May1973	45.0	70.0	115.0
02May1973	45.0	70.0	115.0

03May1973	45.0	70.0	115.0
04May1973	45.0	70.0	115.0
05May1973	45.0	70.0	115.0
06May1973	45.0	70.0	115.0
07May1973	45.0	70.0	115.0
08May1973	45.0	70.0	115.0
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11May1973	45.0	70.0	115.0
12May1973	45.0	70.0	115.0
13May1973	45.0	70.0	115.0
14May1973	45.0	70.0	115.0
15May1973	45.0	70.0	115.0
16May1973	45.0	70.0	115.0
17May1973	45.0	70.0	115.0
18May1973	45.0	70.0	115.0
19May1973	45.0	70.0	115.0
20May1973	45.0	70.0	115.0
21May1973	45.0	70.0	115.0
22May1973	45.0	70.0	115.0
23May1973	45.0	70.0	115.0
24May1973	45.0	70.0	115.0
25May1973	45.0	70.0	115.0
26May1973	45.0	70.0	115.0
27May1973	45.0	70.0	115.0
28May1973	45.0	70.0	115.0
29May1973	45.0	70.0	115.0
30May1973	45.0	70.0	115.0
31May1973	45.0	70.0	115.0
01Jun1973	50.0	70.0	120.0
02Jun1973	50.0	70.0	120.0
03Jun1973	50.0	70.0	120.0
04Jun1973	50.0	70.0	120.0
05Jun1973	50.0	70.0	120.0
06Jun1973	50.0	70.0	120.0
07Jun1973	50.0	70.0	120.0
08Jun1973	50.0	70.0	120.0
09Jun1973	50.0	70.0	120.0
10Jun1973	50.0	70.0	120.0
11Jun1973	50.0	70.0	120.0
12Jun1973	50.0	70.0	120.0
13Jun1973	50.0	70.0	120.0
14Jun1973	50.0	70.0	120.0
15Jun1973	50.0	70.0	120.0
16Jun1973	50.0	70.0	120.0
17Jun1973	50.0	70.0	120.0
18Jun1973	50.0	70.0	120.0
19Jun1973	50.0	70.0	120.0
20Jun1973	50.0	70.0	120.0
21Jun1973	50.0	70.0	120.0
22Jun1973	50.0	70.0	120.0
23Jun1973	50.0	70.0	120.0
24Jun1973	50.0	70.0	120.0
25Jun1973	50.0	70.0	120.0
26Jun1973	50.0	70.0	120.0
27Jun1973	50.0	70.0	120.0

28Jun1973	50.0	70.0	120.0
29Jun1973	50.0	70.0	120.0
30Jun1973	50.0	70.0	120.0
01Jul1973	55.0	70.0	125.0
02Jul1973	55.0	70.0	125.0
03Jul1973	55.0	70.0	125.0
04Jul1973	55.0	70.0	125.0
05Jul1973	55.0	70.0	125.0
06Jul1973	55.0	70.0	125.0
07Jul1973	55.0	70.0	125.0
08Jul1973	55.0	70.0	125.0
09Jul1973	55.0	70.0	125.0
10Jul1973	55.0	70.0	125.0
11Jul1973	55.0	70.0	125.0
12Jul1973	55.0	70.0	125.0
13Jul1973	55.0	70.0	125.0
14Jul1973	55.0	70.0	125.0
15Jul1973	55.0	70.0	125.0
16Jul1973	55.0	70.0	125.0
17Jul1973	55.0	70.0	125.0
18Jul1973	55.0	70.0	125.0
19Jul1973	55.0	70.0	125.0
20Jul1973	55.0	70.0	125.0
21Jul1973	55.0	70.0	125.0
22Jul1973	55.0	70.0	125.0
23Jul1973	55.0	70.0	125.0
24Jul1973	55.0	70.0	125.0
25Jul1973	55.0	70.0	125.0
26Jul1973	55.0	70.0	125.0
27Jul1973	55.0	70.0	125.0
28Jul1973	55.0	70.0	125.0
29Jul1973	55.0	70.0	125.0
30Jul1973	55.0	70.0	125.0
31Jul1973	55.0	70.0	125.0
01Aug1973	70.0	70.0	140.0
02Aug1973	70.0	70.0	140.0
03Aug1973	70.0	70.0	140.0
04Aug1973	70.0	70.0	140.0
05Aug1973	70.0	70.0	140.0
06Aug1973	70.0	70.0	140.0
07Aug1973	70.0	70.0	140.0
08Aug1973	70.0	70.0	140.0
09Aug1973	70.0	70.0	140.0
10Aug1973	70.0	70.0	140.0
11Aug1973	70.0	70.0	140.0
12Aug1973	70.0	70.0	140.0
13Aug1973	70.0	70.0	140.0
14Aug1973	70.0	70.0	140.0
15Aug1973	70.0	70.0	140.0
16Aug1973	70.0	70.0	140.0
17Aug1973	70.0	70.0	140.0
18Aug1973	70.0	70.0	140.0
19Aug1973	70.0	70.0	140.0
20Aug1973	70.0	70.0	140.0
21Aug1973	70.0	70.0	140.0
22Aug1973	70.0	70.0	140.0

23Aug1973	70.0	70.0	140.0
24Aug1973	70.0	70.0	140.0
25Aug1973	70.0	70.0	140.0
26Aug1973	70.0	70.0	140.0
27Aug1973	70.0	70.0	140.0
28Aug1973	70.0	70.0	140.0
29Aug1973	70.0	70.0	140.0
30Aug1973	70.0	70.0	140.0
31Aug1973	70.0	70.0	140.0
01Sep1973	65.0	70.0	135.0
02Sep1973	65.0	70.3	135.3
03Sep1973	65.0	70.7	135.7
04Sep1973	65.0	71.0	136.0
05Sep1973	65.0	71.3	136.3
06Sep1973	65.0	71.7	136.7
07Sep1973	65.0	72.0	137.0
08Sep1973	65.0	72.3	137.3
09Sep1973	65.0	72.7	137.7
10Sep1973	65.0	73.0	138.0
11Sep1973	65.0	73.3	138.3
12Sep1973	65.0	73.7	138.7
13Sep1973	65.0	74.0	139.0
14Sep1973	65.0	74.3	139.3
15Sep1973	65.0	74.7	139.7
16Sep1973	65.0	75.0	140.0
17Sep1973	65.0	75.3	140.3
18Sep1973	65.0	75.7	140.7
19Sep1973	65.0	76.0	141.0
20Sep1973	65.0	76.3	141.3
21Sep1973	65.0	76.7	141.7
22Sep1973	65.0	77.0	142.0
23Sep1973	65.0	77.3	142.3
24Sep1973	65.0	77.7	142.7
25Sep1973	65.0	78.0	143.0
26Sep1973	65.0	78.3	143.3
27Sep1973	65.0	78.7	143.7
28Sep1973	65.0	79.0	144.0
29Sep1973	65.0	79.3	144.3
30Sep1973	65.0	79.7	144.7
01Oct1973	30.0	80.0	110.0
02Oct1973	30.0	80.0	110.0
03Oct1973	30.0	80.0	110.0
04Oct1973	30.0	80.0	110.0
05Oct1973	75.0	80.0	155.0
06Oct1973	71.0	80.0	151.0
07Oct1973	87.0	80.0	167.0
08Oct1973	286.0	156.3	442.3
09Oct1973	226.0	123.5	349.5
10Oct1973	99.0	80.0	179.0
11Oct1973	56.0	80.0	136.0
12Oct1973	39.0	80.0	119.0
13Oct1973	32.0	80.0	112.0
14Oct1973	30.0	80.0	110.0
15Oct1973	30.0	80.0	110.0
16Oct1973	30.0	80.0	110.0
17Oct1973	30.0	80.0	110.0

18Oct1973	30.0	80.0	110.0
19Oct1973	30.0	80.0	110.0
20Oct1973	30.0	80.0	110.0
21Oct1973	30.0	80.0	110.0
22Oct1973	30.0	80.0	110.0
23Oct1973	30.0	80.0	110.0
24Oct1973	30.0	80.0	110.0
25Oct1973	30.0	80.0	110.0
26Oct1973	30.0	80.0	110.0
27Oct1973	30.0	80.0	110.0
28Oct1973	30.0	80.0	110.0
29Oct1973	30.0	80.0	110.0
30Oct1973	30.0	80.0	110.0
31Oct1973	30.0	80.0	110.0
01Nov1973	3.0	80.0	83.0
02Nov1973	3.0	80.0	83.0
03Nov1973	3.0	80.0	83.0
04Nov1973	3.0	80.0	83.0
05Nov1973	3.0	80.0	83.0
06Nov1973	3.0	80.0	83.0
07Nov1973	3.0	80.0	83.0
08Nov1973	3.0	80.0	83.0
09Nov1973	3.0	80.0	83.0
10Nov1973	3.0	80.0	83.0
11Nov1973	3.0	80.0	83.0
12Nov1973	3.0	80.0	83.0
13Nov1973	3.0	80.0	83.0
14Nov1973	3.0	80.0	83.0
15Nov1973	3.0	80.0	83.0
16Nov1973	3.0	80.0	83.0
17Nov1973	3.0	80.0	83.0
18Nov1973	3.0	80.0	83.0
19Nov1973	3.0	80.0	83.0
20Nov1973	3.0	80.0	83.0
21Nov1973	3.0	80.0	83.0
22Nov1973	3.0	80.0	83.0
23Nov1973	3.0	80.0	83.0
24Nov1973	3.0	80.0	83.0
25Nov1973	3.0	80.0	83.0
26Nov1973	3.0	80.0	83.0
27Nov1973	3.0	80.0	83.0
28Nov1973	3.0	80.0	83.0
29Nov1973	3.0	80.0	83.0
30Nov1973	3.0	80.0	83.0
01Dec1973	1.0	80.0	81.0
02Dec1973	1.0	80.0	81.0
03Dec1973	1.0	80.0	81.0
04Dec1973	1.0	80.0	81.0
05Dec1973	1.0	80.0	81.0
06Dec1973	1.0	80.0	81.0
07Dec1973	1.0	80.0	81.0
08Dec1973	1.0	80.0	81.0
09Dec1973	1.0	80.0	81.0
10Dec1973	1.0	80.0	81.0
11Dec1973	1.0	80.0	81.0
12Dec1973	1.0	80.0	81.0

13Dec1973	1.0	80.0	81.0
14Dec1973	1.0	80.0	81.0
15Dec1973	1.0	80.0	81.0
16Dec1973	1.0	80.0	81.0
17Dec1973	1.0	80.0	81.0
18Dec1973	1.0	80.0	81.0
19Dec1973	1.0	80.0	81.0
20Dec1973	1.0	80.0	81.0
21Dec1973	1.0	80.0	81.0
22Dec1973	1.0	80.0	81.0
23Dec1973	1.0	80.0	81.0
24Dec1973	1.0	80.0	81.0
25Dec1973	1.0	80.0	81.0
26Dec1973	45.0	80.0	125.0
27Dec1973	279.0	152.4	431.4
28Dec1973	1850.0	1010.8	2860.8
29Dec1973	992.0	542.0	1534.0
30Dec1973	298.0	162.8	460.8
31Dec1973	210.0	114.7	324.7
01Jan1974	139.0	80.0	219.0
02Jan1974	383.0	209.3	592.3
03Jan1974	168.0	91.8	259.8
04Jan1974	104.0	81.9	185.9
05Jan1974	87.0	82.6	169.6
06Jan1974	144.0	83.2	227.2
07Jan1974	742.0	405.4	1147.4
08Jan1974	549.0	300.0	849.0
09Jan1974	263.0	143.7	406.7
10Jan1974	144.0	85.8	229.8
11Jan1974	107.0	86.5	193.5
12Jan1974	107.0	87.1	194.1
13Jan1974	153.0	87.7	240.7
14Jan1974	121.0	88.4	209.4
15Jan1974	83.0	89.0	172.0
16Jan1974	70.0	89.7	159.7
17Jan1974	63.0	90.3	153.3
18Jan1974	59.0	91.0	150.0
19Jan1974	95.0	91.6	186.6
20Jan1974	131.0	92.3	223.3
21Jan1974	88.0	92.9	180.9
22Jan1974	70.0	93.5	163.5
23Jan1974	60.0	94.2	154.2
24Jan1974	55.0	94.8	149.8
25Jan1974	49.0	95.5	144.5
26Jan1974	44.0	96.1	140.1
27Jan1974	40.0	96.8	136.8
28Jan1974	37.0	97.4	134.4
29Jan1974	36.0	98.1	134.1
30Jan1974	32.0	98.7	130.7
31Jan1974	31.0	99.4	130.4
01Feb1974	30.0	100.0	130.0
02Feb1974	30.0	100.0	130.0
03Feb1974	30.0	100.0	130.0
04Feb1974	30.0	100.0	130.0
05Feb1974	30.0	100.0	130.0
06Feb1974	30.0	100.0	130.0

07Feb1974	30.0	100.0	130.0
08Feb1974	30.0	100.0	130.0
09Feb1974	30.0	100.0	130.0
10Feb1974	30.0	100.0	130.0
11Feb1974	30.0	100.0	130.0
12Feb1974	30.0	100.0	130.0
13Feb1974	30.0	100.0	130.0
14Feb1974	30.0	100.0	130.0
15Feb1974	30.0	100.0	130.0
16Feb1974	30.0	100.0	130.0
17Feb1974	30.0	100.0	130.0
18Feb1974	30.0	100.0	130.0
19Feb1974	30.0	100.0	130.0
20Feb1974	30.0	100.0	130.0
21Feb1974	30.0	100.0	130.0
22Feb1974	30.0	100.0	130.0
23Feb1974	30.0	100.0	130.0
24Feb1974	30.0	100.0	130.0
25Feb1974	30.0	100.0	130.0
26Feb1974	30.0	100.0	130.0
27Feb1974	30.0	100.0	130.0
28Feb1974	30.0	100.0	130.0
01Mar1974	33.0	100.0	133.0
02Mar1974	573.0	313.1	886.1
03Mar1974	962.0	525.6	1487.6
04Mar1974	1030.0	562.8	1592.8
05Mar1974	374.0	204.4	578.4
06Mar1974	157.0	100.0	257.0
07Mar1974	118.0	100.0	218.0
08Mar1974	141.0	100.0	241.0
09Mar1974	464.0	253.5	717.5
10Mar1974	174.0	100.0	274.0
11Mar1974	122.0	100.0	222.0
12Mar1974	100.0	100.0	200.0
13Mar1974	86.0	100.0	186.0
14Mar1974	77.0	100.0	177.0
15Mar1974	72.0	100.0	172.0
16Mar1974	66.0	100.0	166.0
17Mar1974	63.0	100.0	163.0
18Mar1974	61.0	100.0	161.0
19Mar1974	58.0	100.0	158.0
20Mar1974	55.0	100.0	155.0
21Mar1974	52.0	100.0	152.0
22Mar1974	49.0	100.0	149.0
23Mar1974	47.0	100.0	147.0
24Mar1974	45.0	100.0	145.0
25Mar1974	46.0	100.0	146.0
26Mar1974	56.0	100.0	156.0
27Mar1974	50.0	100.0	150.0
28Mar1974	64.0	100.0	164.0
29Mar1974	67.0	100.0	167.0
30Mar1974	84.0	100.0	184.0
31Mar1974	84.0	100.0	184.0
01Apr1974	101.0	100.0	201.0
02Apr1974	901.0	492.3	1393.3
03Apr1974	719.0	392.9	1111.9

04Apr1974	213.0	116.4	329.4
05Apr1974	134.0	96.0	230.0
06Apr1974	101.0	95.0	196.0
07Apr1974	88.0	94.0	182.0
08Apr1974	77.0	93.0	170.0
09Apr1974	69.0	92.0	161.0
10Apr1974	78.0	91.0	169.0
11Apr1974	65.0	90.0	155.0
12Apr1974	66.0	89.0	155.0
13Apr1974	60.0	88.0	148.0
14Apr1974	52.0	87.0	139.0
15Apr1974	51.0	86.0	137.0
16Apr1974	40.0	85.0	125.0
17Apr1974	40.0	84.0	124.0
18Apr1974	40.0	83.0	123.0
19Apr1974	40.0	82.0	122.0
20Apr1974	40.0	81.0	121.0
21Apr1974	40.0	80.0	120.0
22Apr1974	40.0	79.0	119.0
23Apr1974	40.0	78.0	118.0
24Apr1974	40.0	77.0	117.0
25Apr1974	40.0	76.0	116.0
26Apr1974	40.0	75.0	115.0
27Apr1974	40.0	74.0	114.0
28Apr1974	40.0	73.0	113.0
29Apr1974	40.0	72.0	112.0
30Apr1974	40.0	71.0	111.0
01May1974	45.0	70.0	115.0
02May1974	45.0	70.0	115.0
03May1974	45.0	70.0	115.0
04May1974	45.0	70.0	115.0
05May1974	45.0	70.0	115.0
06May1974	45.0	70.0	115.0
07May1974	45.0	70.0	115.0
08May1974	45.0	70.0	115.0
09May1974	45.0	70.0	115.0
10May1974	45.0	70.0	115.0
11May1974	45.0	70.0	115.0
12May1974	45.0	70.0	115.0
13May1974	45.0	70.0	115.0
14May1974	45.0	70.0	115.0
15May1974	45.0	70.0	115.0
16May1974	45.0	70.0	115.0
17May1974	45.0	70.0	115.0
18May1974	45.0	70.0	115.0
19May1974	45.0	70.0	115.0
20May1974	45.0	70.0	115.0
21May1974	45.0	70.0	115.0
22May1974	45.0	70.0	115.0
23May1974	45.0	70.0	115.0
24May1974	45.0	70.0	115.0
25May1974	45.0	70.0	115.0
26May1974	45.0	70.0	115.0
27May1974	45.0	70.0	115.0
28May1974	45.0	70.0	115.0
29May1974	45.0	70.0	115.0

30May1974	45.0	70.0	115.0
31May1974	45.0	70.0	115.0
01Jun1974	50.0	70.0	120.0
02Jun1974	50.0	70.0	120.0
03Jun1974	50.0	70.0	120.0
04Jun1974	50.0	70.0	120.0
05Jun1974	50.0	70.0	120.0
06Jun1974	50.0	70.0	120.0
07Jun1974	50.0	70.0	120.0
08Jun1974	50.0	70.0	120.0
09Jun1974	50.0	70.0	120.0
10Jun1974	50.0	70.0	120.0
11Jun1974	50.0	70.0	120.0
12Jun1974	50.0	70.0	120.0
13Jun1974	50.0	70.0	120.0
14Jun1974	50.0	70.0	120.0
15Jun1974	50.0	70.0	120.0
16Jun1974	50.0	70.0	120.0
17Jun1974	50.0	70.0	120.0
18Jun1974	50.0	70.0	120.0
19Jun1974	50.0	70.0	120.0
20Jun1974	50.0	70.0	120.0
21Jun1974	50.0	70.0	120.0
22Jun1974	50.0	70.0	120.0
23Jun1974	50.0	70.0	120.0
24Jun1974	50.0	70.0	120.0
25Jun1974	50.0	70.0	120.0
26Jun1974	50.0	70.0	120.0
27Jun1974	50.0	70.0	120.0
28Jun1974	50.0	70.0	120.0
29Jun1974	50.0	70.0	120.0
30Jun1974	50.0	70.0	120.0
01Jul1974	55.0	70.0	125.0
02Jul1974	55.0	70.0	125.0
03Jul1974	55.0	70.0	125.0
04Jul1974	55.0	70.0	125.0
05Jul1974	55.0	70.0	125.0
06Jul1974	55.0	70.0	125.0
07Jul1974	55.0	70.0	125.0
08Jul1974	55.0	70.0	125.0
09Jul1974	55.0	70.0	125.0
10Jul1974	55.0	70.0	125.0
11Jul1974	55.0	70.0	125.0
12Jul1974	55.0	70.0	125.0
13Jul1974	55.0	70.0	125.0
14Jul1974	55.0	70.0	125.0
15Jul1974	55.0	70.0	125.0
16Jul1974	55.0	70.0	125.0
17Jul1974	55.0	70.0	125.0
18Jul1974	55.0	70.0	125.0
19Jul1974	55.0	70.0	125.0
20Jul1974	55.0	70.0	125.0
21Jul1974	55.0	70.0	125.0
22Jul1974	55.0	70.0	125.0
23Jul1974	55.0	70.0	125.0
24Jul1974	55.0	70.0	125.0

25Jul1974	55.0	70.0	125.0
26Jul1974	55.0	70.0	125.0
27Jul1974	55.0	70.0	125.0
28Jul1974	55.0	70.0	125.0
29Jul1974	55.0	70.0	125.0
30Jul1974	55.0	70.0	125.0
31Jul1974	55.0	70.0	125.0
01Aug1974	70.0	70.0	140.0
02Aug1974	70.0	70.0	140.0
03Aug1974	70.0	70.0	140.0
04Aug1974	70.0	70.0	140.0
05Aug1974	70.0	70.0	140.0
06Aug1974	70.0	70.0	140.0
07Aug1974	70.0	70.0	140.0
08Aug1974	70.0	70.0	140.0
09Aug1974	70.0	70.0	140.0
10Aug1974	70.0	70.0	140.0
11Aug1974	70.0	70.0	140.0
12Aug1974	70.0	70.0	140.0
13Aug1974	70.0	70.0	140.0
14Aug1974	70.0	70.0	140.0
15Aug1974	70.0	70.0	140.0
16Aug1974	70.0	70.0	140.0
17Aug1974	70.0	70.0	140.0
18Aug1974	70.0	70.0	140.0
19Aug1974	70.0	70.0	140.0
20Aug1974	70.0	70.0	140.0
21Aug1974	70.0	70.0	140.0
22Aug1974	70.0	70.0	140.0
23Aug1974	70.0	70.0	140.0
24Aug1974	70.0	70.0	140.0
25Aug1974	70.0	70.0	140.0
26Aug1974	70.0	70.0	140.0
27Aug1974	70.0	70.0	140.0
28Aug1974	70.0	70.0	140.0
29Aug1974	70.0	70.0	140.0
30Aug1974	70.0	70.0	140.0
31Aug1974	70.0	70.0	140.0
01Sep1974	65.0	70.0	135.0
02Sep1974	65.0	70.3	135.3
03Sep1974	65.0	70.7	135.7
04Sep1974	65.0	71.0	136.0
05Sep1974	65.0	71.3	136.3
06Sep1974	65.0	71.7	136.7
07Sep1974	65.0	72.0	137.0
08Sep1974	65.0	72.3	137.3
09Sep1974	65.0	72.7	137.7
10Sep1974	65.0	73.0	138.0
11Sep1974	65.0	73.3	138.3
12Sep1974	65.0	73.7	138.7
13Sep1974	65.0	74.0	139.0
14Sep1974	65.0	74.3	139.3
15Sep1974	65.0	74.7	139.7
16Sep1974	65.0	75.0	140.0
17Sep1974	65.0	75.3	140.3
18Sep1974	65.0	75.7	140.7

19Sep1974	65.0	76.0	141.0
20Sep1974	65.0	76.3	141.3
21Sep1974	65.0	76.7	141.7
22Sep1974	65.0	77.0	142.0
23Sep1974	65.0	77.3	142.3
24Sep1974	65.0	77.7	142.7
25Sep1974	65.0	78.0	143.0
26Sep1974	65.0	78.3	143.3
27Sep1974	65.0	78.7	143.7
28Sep1974	65.0	79.0	144.0
29Sep1974	65.0	79.3	144.3
30Sep1974	65.0	79.7	144.7
01Oct1974	30.0	80.0	110.0
02Oct1974	30.0	80.0	110.0
03Oct1974	30.0	80.0	110.0
04Oct1974	30.0	80.0	110.0
05Oct1974	30.0	80.0	110.0
06Oct1974	30.0	80.0	110.0
07Oct1974	30.0	80.0	110.0
08Oct1974	30.0	80.0	110.0
09Oct1974	30.0	80.0	110.0
10Oct1974	30.0	80.0	110.0
11Oct1974	30.0	80.0	110.0
12Oct1974	30.0	80.0	110.0
13Oct1974	30.0	80.0	110.0
14Oct1974	30.0	80.0	110.0
15Oct1974	30.0	80.0	110.0
16Oct1974	30.0	80.0	110.0
17Oct1974	30.0	80.0	110.0
18Oct1974	30.0	80.0	110.0
19Oct1974	30.0	80.0	110.0
20Oct1974	94.0	80.0	174.0
21Oct1974	103.0	80.0	183.0
22Oct1974	282.0	154.1	436.1
23Oct1974	390.0	213.1	603.1
24Oct1974	397.0	216.9	613.9
25Oct1974	390.0	213.1	603.1
26Oct1974	223.0	121.8	344.8
27Oct1974	178.0	97.3	275.3
28Oct1974	171.0	93.4	264.4
29Oct1974	156.0	85.2	241.2
30Oct1974	119.0	80.0	199.0
31Oct1974	121.0	80.0	201.0
01Nov1974	134.0	80.0	214.0
02Nov1974	123.0	80.0	203.0
03Nov1974	112.0	80.0	192.0
04Nov1974	107.0	80.0	187.0
05Nov1974	105.0	80.0	185.0
06Nov1974	3.0	80.0	83.0
07Nov1974	3.0	80.0	83.0
08Nov1974	3.0	80.0	83.0
09Nov1974	3.0	80.0	83.0
10Nov1974	3.0	80.0	83.0
11Nov1974	3.0	80.0	83.0
12Nov1974	3.0	80.0	83.0
13Nov1974	3.0	80.0	83.0

14Nov1974	3.0	80.0	83.0
15Nov1974	3.0	80.0	83.0
16Nov1974	3.0	80.0	83.0
17Nov1974	3.0	80.0	83.0
18Nov1974	3.0	80.0	83.0
19Nov1974	3.0	80.0	83.0
20Nov1974	3.0	80.0	83.0
21Nov1974	3.0	80.0	83.0
22Nov1974	3.0	80.0	83.0
23Nov1974	3.0	80.0	83.0
24Nov1974	3.0	80.0	83.0
25Nov1974	3.0	80.0	83.0
26Nov1974	3.0	80.0	83.0
27Nov1974	3.0	80.0	83.0
28Nov1974	3.0	80.0	83.0
29Nov1974	3.0	80.0	83.0
30Nov1974	3.0	80.0	83.0
01Dec1974	1.0	80.0	81.0
02Dec1974	1.0	80.0	81.0
03Dec1974	1.0	80.0	81.0
04Dec1974	1.0	80.0	81.0
05Dec1974	1.0	80.0	81.0
06Dec1974	1.0	80.0	81.0
07Dec1974	1.0	80.0	81.0
08Dec1974	1.0	80.0	81.0
09Dec1974	1.0	80.0	81.0
10Dec1974	1.0	80.0	81.0
11Dec1974	1.0	80.0	81.0
12Dec1974	1.0	80.0	81.0
13Dec1974	1.0	80.0	81.0
14Dec1974	1.0	80.0	81.0
15Dec1974	1.0	80.0	81.0
16Dec1974	1.0	80.0	81.0
17Dec1974	1.0	80.0	81.0
18Dec1974	1.0	80.0	81.0
19Dec1974	1.0	80.0	81.0
20Dec1974	1.0	80.0	81.0
21Dec1974	1.0	80.0	81.0
22Dec1974	1.0	80.0	81.0
23Dec1974	1.0	80.0	81.0
24Dec1974	1.0	80.0	81.0
25Dec1974	1.0	80.0	81.0
26Dec1974	1.0	80.0	81.0
27Dec1974	1.0	80.0	81.0
28Dec1974	1.0	80.0	81.0
29Dec1974	1.0	80.0	81.0
30Dec1974	1.0	80.0	81.0
31Dec1974	1.0	80.0	81.0
01Jan1975	10.0	80.0	90.0
02Jan1975	10.0	80.6	90.6
03Jan1975	10.0	81.3	91.3
04Jan1975	10.0	81.9	91.9
05Jan1975	10.0	82.6	92.6
06Jan1975	10.0	83.2	93.2
07Jan1975	10.0	83.9	93.9
08Jan1975	10.0	84.5	94.5

09Jan1975	10.0	85.2	95.2
10Jan1975	10.0	85.8	95.8
11Jan1975	10.0	86.5	96.5
12Jan1975	10.0	87.1	97.1
13Jan1975	10.0	87.7	97.7
14Jan1975	10.0	88.4	98.4
15Jan1975	10.0	89.0	99.0
16Jan1975	10.0	89.7	99.7
17Jan1975	10.0	90.3	100.3
18Jan1975	10.0	91.0	101.0
19Jan1975	10.0	91.6	101.6
20Jan1975	10.0	92.3	102.3
21Jan1975	10.0	92.9	102.9
22Jan1975	10.0	93.5	103.5
23Jan1975	10.0	94.2	104.2
24Jan1975	10.0	94.8	104.8
25Jan1975	10.0	95.5	105.5
26Jan1975	10.0	96.1	106.1
27Jan1975	10.0	96.8	106.8
28Jan1975	10.0	97.4	107.4
29Jan1975	10.0	98.1	108.1
30Jan1975	10.0	98.7	108.7
31Jan1975	10.0	99.4	109.4
01Feb1975	30.0	100.0	130.0
02Feb1975	30.0	100.0	130.0
03Feb1975	407.0	222.4	629.4
04Feb1975	343.0	187.4	530.4
05Feb1975	342.0	186.9	528.9
06Feb1975	179.0	100.0	279.0
07Feb1975	93.0	100.0	193.0
08Feb1975	83.0	100.0	183.0
09Feb1975	122.0	100.0	222.0
10Feb1975	704.0	384.7	1088.7
11Feb1975	282.0	154.1	436.1
12Feb1975	110.0	100.0	210.0
13Feb1975	119.0	100.0	219.0
14Feb1975	827.0	451.9	1278.9
15Feb1975	279.0	152.4	431.4
16Feb1975	98.0	100.0	198.0
17Feb1975	66.0	100.0	166.0
18Feb1975	55.0	100.0	155.0
19Feb1975	48.0	100.0	148.0
20Feb1975	43.0	100.0	143.0
21Feb1975	41.0	100.0	141.0
22Feb1975	47.0	100.0	147.0
23Feb1975	42.0	100.0	142.0
24Feb1975	38.0	100.0	138.0
25Feb1975	35.0	100.0	135.0
26Feb1975	34.0	100.0	134.0
27Feb1975	32.0	100.0	132.0
28Feb1975	30.0	100.0	130.0
01Mar1975	30.0	100.0	130.0
02Mar1975	30.0	100.0	130.0
03Mar1975	43.0	100.0	143.0
04Mar1975	71.0	100.0	171.0
05Mar1975	74.0	100.0	174.0

06Mar1975	74.0	100.0	174.0
07Mar1975	63.0	100.0	163.0
08Mar1975	112.0	100.0	212.0
09Mar1975	315.0	172.1	487.1
10Mar1975	186.0	101.6	287.6
11Mar1975	155.0	100.0	255.0
12Mar1975	132.0	100.0	232.0
13Mar1975	100.0	100.0	200.0
14Mar1975	629.0	343.7	972.7
15Mar1975	450.0	245.9	695.9
16Mar1975	213.0	116.4	329.4
17Mar1975	652.0	356.3	1008.3
18Mar1975	197.0	107.6	304.6
19Mar1975	125.0	100.0	225.0
20Mar1975	107.0	100.0	207.0
21Mar1975	102.0	100.0	202.0
22Mar1975	393.0	214.7	607.7
23Mar1975	797.0	435.5	1232.5
24Mar1975	279.0	152.4	431.4
25Mar1975	240.0	131.1	371.1
26Mar1975	530.0	289.6	819.6
27Mar1975	246.0	134.4	380.4
28Mar1975	139.0	100.0	239.0
29Mar1975	104.0	100.0	204.0
30Mar1975	89.0	100.0	189.0
31Mar1975	79.0	100.0	179.0
01Apr1975	69.0	100.0	169.0
02Apr1975	59.0	99.0	158.0
03Apr1975	66.0	98.0	164.0
04Apr1975	79.0	97.0	176.0
05Apr1975	70.0	96.0	166.0
06Apr1975	206.0	112.6	318.6
07Apr1975	298.0	162.8	460.8
08Apr1975	228.0	124.6	352.6
09Apr1975	200.0	109.3	309.3
10Apr1975	161.0	91.0	252.0
11Apr1975	122.0	90.0	212.0
12Apr1975	109.0	89.0	198.0
13Apr1975	102.0	88.0	190.0
14Apr1975	94.0	87.0	181.0
15Apr1975	85.0	86.0	171.0
16Apr1975	80.0	85.0	165.0
17Apr1975	40.0	84.0	124.0
18Apr1975	40.0	83.0	123.0
19Apr1975	40.0	82.0	122.0
20Apr1975	40.0	81.0	121.0
21Apr1975	40.0	80.0	120.0
22Apr1975	40.0	79.0	119.0
23Apr1975	40.0	78.0	118.0
24Apr1975	40.0	77.0	117.0
25Apr1975	40.0	76.0	116.0
26Apr1975	40.0	75.0	115.0
27Apr1975	40.0	74.0	114.0
28Apr1975	40.0	73.0	113.0
29Apr1975	40.0	72.0	112.0
30Apr1975	40.0	71.0	111.0

01May1975	45.0	70.0	115.0
02May1975	45.0	70.0	115.0
03May1975	45.0	70.0	115.0
04May1975	45.0	70.0	115.0
05May1975	45.0	70.0	115.0
06May1975	45.0	70.0	115.0
07May1975	45.0	70.0	115.0
08May1975	45.0	70.0	115.0
09May1975	45.0	70.0	115.0
10May1975	45.0	70.0	115.0
11May1975	45.0	70.0	115.0
12May1975	45.0	70.0	115.0
13May1975	45.0	70.0	115.0
14May1975	45.0	70.0	115.0
15May1975	45.0	70.0	115.0
16May1975	45.0	70.0	115.0
17May1975	45.0	70.0	115.0
18May1975	45.0	70.0	115.0
19May1975	45.0	70.0	115.0
20May1975	45.0	70.0	115.0
21May1975	45.0	70.0	115.0
22May1975	45.0	70.0	115.0
23May1975	45.0	70.0	115.0
24May1975	45.0	70.0	115.0
25May1975	45.0	70.0	115.0
26May1975	45.0	70.0	115.0
27May1975	45.0	70.0	115.0
28May1975	45.0	70.0	115.0
29May1975	45.0	70.0	115.0
30May1975	45.0	70.0	115.0
31May1975	45.0	70.0	115.0
01Jun1975	50.0	70.0	120.0
02Jun1975	50.0	70.0	120.0
03Jun1975	50.0	70.0	120.0
04Jun1975	50.0	70.0	120.0
05Jun1975	50.0	70.0	120.0
06Jun1975	50.0	70.0	120.0
07Jun1975	50.0	70.0	120.0
08Jun1975	50.0	70.0	120.0
09Jun1975	50.0	70.0	120.0
10Jun1975	50.0	70.0	120.0
11Jun1975	50.0	70.0	120.0
12Jun1975	50.0	70.0	120.0
13Jun1975	50.0	70.0	120.0
14Jun1975	50.0	70.0	120.0
15Jun1975	50.0	70.0	120.0
16Jun1975	50.0	70.0	120.0
17Jun1975	50.0	70.0	120.0
18Jun1975	50.0	70.0	120.0
19Jun1975	50.0	70.0	120.0
20Jun1975	50.0	70.0	120.0
21Jun1975	50.0	70.0	120.0
22Jun1975	50.0	70.0	120.0
23Jun1975	50.0	70.0	120.0
24Jun1975	50.0	70.0	120.0
25Jun1975	50.0	70.0	120.0

26Jun1975	50.0	70.0	120.0
27Jun1975	50.0	70.0	120.0
28Jun1975	50.0	70.0	120.0
29Jun1975	50.0	70.0	120.0
30Jun1975	50.0	70.0	120.0
01Jul1975	55.0	70.0	125.0
02Jul1975	55.0	70.0	125.0
03Jul1975	55.0	70.0	125.0
04Jul1975	55.0	70.0	125.0
05Jul1975	55.0	70.0	125.0
06Jul1975	55.0	70.0	125.0
07Jul1975	55.0	70.0	125.0
08Jul1975	55.0	70.0	125.0
09Jul1975	55.0	70.0	125.0
10Jul1975	55.0	70.0	125.0
11Jul1975	55.0	70.0	125.0
12Jul1975	55.0	70.0	125.0
13Jul1975	55.0	70.0	125.0
14Jul1975	55.0	70.0	125.0
15Jul1975	55.0	70.0	125.0
16Jul1975	55.0	70.0	125.0
17Jul1975	55.0	70.0	125.0
18Jul1975	55.0	70.0	125.0
19Jul1975	55.0	70.0	125.0
20Jul1975	55.0	70.0	125.0
21Jul1975	55.0	70.0	125.0
22Jul1975	55.0	70.0	125.0
23Jul1975	55.0	70.0	125.0
24Jul1975	55.0	70.0	125.0
25Jul1975	55.0	70.0	125.0
26Jul1975	55.0	70.0	125.0
27Jul1975	55.0	70.0	125.0
28Jul1975	55.0	70.0	125.0
29Jul1975	55.0	70.0	125.0
30Jul1975	55.0	70.0	125.0
31Jul1975	55.0	70.0	125.0
01Aug1975	70.0	70.0	140.0
02Aug1975	70.0	70.0	140.0
03Aug1975	70.0	70.0	140.0
04Aug1975	70.0	70.0	140.0
05Aug1975	70.0	70.0	140.0
06Aug1975	70.0	70.0	140.0
07Aug1975	70.0	70.0	140.0
08Aug1975	70.0	70.0	140.0
09Aug1975	70.0	70.0	140.0
10Aug1975	70.0	70.0	140.0
11Aug1975	70.0	70.0	140.0
12Aug1975	70.0	70.0	140.0
13Aug1975	70.0	70.0	140.0
14Aug1975	70.0	70.0	140.0
15Aug1975	70.0	70.0	140.0
16Aug1975	70.0	70.0	140.0
17Aug1975	70.0	70.0	140.0
18Aug1975	70.0	70.0	140.0
19Aug1975	70.0	70.0	140.0
20Aug1975	70.0	70.0	140.0

21Aug1975	70.0	70.0	140.0
22Aug1975	70.0	70.0	140.0
23Aug1975	70.0	70.0	140.0
24Aug1975	70.0	70.0	140.0
25Aug1975	70.0	70.0	140.0
26Aug1975	70.0	70.0	140.0
27Aug1975	70.0	70.0	140.0
28Aug1975	70.0	70.0	140.0
29Aug1975	70.0	70.0	140.0
30Aug1975	70.0	70.0	140.0
31Aug1975	70.0	70.0	140.0
01Sep1975	65.0	70.0	135.0
02Sep1975	65.0	70.3	135.3
03Sep1975	65.0	70.7	135.7
04Sep1975	65.0	71.0	136.0
05Sep1975	65.0	71.3	136.3
06Sep1975	65.0	71.7	136.7
07Sep1975	65.0	72.0	137.0
08Sep1975	65.0	72.3	137.3
09Sep1975	65.0	72.7	137.7
10Sep1975	65.0	73.0	138.0
11Sep1975	65.0	73.3	138.3
12Sep1975	65.0	73.7	138.7
13Sep1975	65.0	74.0	139.0
14Sep1975	65.0	74.3	139.3
15Sep1975	65.0	74.7	139.7
16Sep1975	65.0	75.0	140.0
17Sep1975	65.0	75.3	140.3
18Sep1975	65.0	75.7	140.7
19Sep1975	65.0	76.0	141.0
20Sep1975	65.0	76.3	141.3
21Sep1975	65.0	76.7	141.7
22Sep1975	65.0	77.0	142.0
23Sep1975	65.0	77.3	142.3
24Sep1975	65.0	77.7	142.7
25Sep1975	65.0	78.0	143.0
26Sep1975	65.0	78.3	143.3
27Sep1975	65.0	78.7	143.7
28Sep1975	65.0	79.0	144.0
29Sep1975	65.0	79.3	144.3
30Sep1975	65.0	79.7	144.7
01Oct1975	30.0	80.0	110.0
02Oct1975	30.0	80.0	110.0
03Oct1975	30.0	80.0	110.0
04Oct1975	30.0	80.0	110.0
05Oct1975	30.0	80.0	110.0
06Oct1975	30.0	80.0	110.0
07Oct1975	30.0	80.0	110.0
08Oct1975	30.0	80.0	110.0
09Oct1975	30.0	80.0	110.0
10Oct1975	30.0	80.0	110.0
11Oct1975	30.0	80.0	110.0
12Oct1975	30.0	80.0	110.0
13Oct1975	30.0	80.0	110.0
14Oct1975	30.0	80.0	110.0
15Oct1975	30.0	80.0	110.0

16Oct1975	30.0	80.0	110.0
17Oct1975	30.0	80.0	110.0
18Oct1975	30.0	80.0	110.0
19Oct1975	30.0	80.0	110.0
20Oct1975	30.0	80.0	110.0
21Oct1975	30.0	80.0	110.0
22Oct1975	30.0	80.0	110.0
23Oct1975	30.0	80.0	110.0
24Oct1975	30.0	80.0	110.0
25Oct1975	30.0	80.0	110.0
26Oct1975	30.0	80.0	110.0
27Oct1975	30.0	80.0	110.0
28Oct1975	30.0	80.0	110.0
29Oct1975	30.0	80.0	110.0
30Oct1975	30.0	80.0	110.0
31Oct1975	30.0	80.0	110.0
01Nov1975	3.0	80.0	83.0
02Nov1975	3.0	80.0	83.0
03Nov1975	3.0	80.0	83.0
04Nov1975	3.0	80.0	83.0
05Nov1975	3.0	80.0	83.0
06Nov1975	3.0	80.0	83.0
07Nov1975	3.0	80.0	83.0
08Nov1975	3.0	80.0	83.0
09Nov1975	3.0	80.0	83.0
10Nov1975	3.0	80.0	83.0
11Nov1975	3.0	80.0	83.0
12Nov1975	3.0	80.0	83.0
13Nov1975	3.0	80.0	83.0
14Nov1975	3.0	80.0	83.0
15Nov1975	3.0	80.0	83.0
16Nov1975	3.0	80.0	83.0
17Nov1975	3.0	80.0	83.0
18Nov1975	3.0	80.0	83.0
19Nov1975	3.0	80.0	83.0
20Nov1975	3.0	80.0	83.0
21Nov1975	3.0	80.0	83.0
22Nov1975	3.0	80.0	83.0
23Nov1975	3.0	80.0	83.0
24Nov1975	3.0	80.0	83.0
25Nov1975	3.0	80.0	83.0
26Nov1975	3.0	80.0	83.0
27Nov1975	3.0	80.0	83.0
28Nov1975	3.0	80.0	83.0
29Nov1975	3.0	80.0	83.0
30Nov1975	3.0	80.0	83.0
01Dec1975	1.0	80.0	81.0
02Dec1975	1.0	80.0	81.0
03Dec1975	1.0	80.0	81.0
04Dec1975	1.0	80.0	81.0
05Dec1975	1.0	80.0	81.0
06Dec1975	1.0	80.0	81.0
07Dec1975	1.0	80.0	81.0
08Dec1975	1.0	80.0	81.0
09Dec1975	1.0	80.0	81.0
10Dec1975	1.0	80.0	81.0

11Dec1975	1.0	80.0	81.0
12Dec1975	1.0	80.0	81.0
13Dec1975	1.0	80.0	81.0
14Dec1975	1.0	80.0	81.0
15Dec1975	1.0	80.0	81.0
16Dec1975	1.0	80.0	81.0
17Dec1975	1.0	80.0	81.0
18Dec1975	1.0	80.0	81.0
19Dec1975	1.0	80.0	81.0
20Dec1975	1.0	80.0	81.0
21Dec1975	1.0	80.0	81.0
22Dec1975	1.0	80.0	81.0
23Dec1975	1.0	80.0	81.0
24Dec1975	1.0	80.0	81.0
25Dec1975	1.0	80.0	81.0
26Dec1975	1.0	80.0	81.0
27Dec1975	1.0	80.0	81.0
28Dec1975	1.0	80.0	81.0
29Dec1975	1.0	80.0	81.0
30Dec1975	1.0	80.0	81.0
31Dec1975	1.0	80.0	81.0
01Jan1976	10.0	80.0	90.0
02Jan1976	10.0	80.6	90.6
03Jan1976	10.0	81.3	91.3
04Jan1976	10.0	81.9	91.9
05Jan1976	10.0	82.6	92.6
06Jan1976	10.0	83.2	93.2
07Jan1976	10.0	83.9	93.9
08Jan1976	10.0	84.5	94.5
09Jan1976	10.0	85.2	95.2
10Jan1976	10.0	85.8	95.8
11Jan1976	10.0	86.5	96.5
12Jan1976	10.0	87.1	97.1
13Jan1976	10.0	87.7	97.7
14Jan1976	10.0	88.4	98.4
15Jan1976	10.0	89.0	99.0
16Jan1976	10.0	89.7	99.7
17Jan1976	10.0	90.3	100.3
18Jan1976	10.0	91.0	101.0
19Jan1976	10.0	91.6	101.6
20Jan1976	10.0	92.3	102.3
21Jan1976	10.0	92.9	102.9
22Jan1976	10.0	93.5	103.5
23Jan1976	10.0	94.2	104.2
24Jan1976	10.0	94.8	104.8
25Jan1976	10.0	95.5	105.5
26Jan1976	10.0	96.1	106.1
27Jan1976	10.0	96.8	106.8
28Jan1976	10.0	97.4	107.4
29Jan1976	10.0	98.1	108.1
30Jan1976	10.0	98.7	108.7
31Jan1976	10.0	99.4	109.4
01Feb1976	30.0	100.0	130.0
02Feb1976	30.0	100.0	130.0
03Feb1976	30.0	100.0	130.0
04Feb1976	30.0	100.0	130.0

05Feb1976	30.0	100.0	130.0
06Feb1976	30.0	100.0	130.0
07Feb1976	30.0	100.0	130.0
08Feb1976	30.0	100.0	130.0
09Feb1976	30.0	100.0	130.0
10Feb1976	30.0	100.0	130.0
11Feb1976	30.0	100.0	130.0
12Feb1976	30.0	100.0	130.0
13Feb1976	30.0	100.0	130.0
14Feb1976	30.0	100.0	130.0
15Feb1976	30.0	100.0	130.0
16Feb1976	30.0	100.0	130.0
17Feb1976	30.0	100.0	130.0
18Feb1976	30.0	100.0	130.0
19Feb1976	30.0	100.0	130.0
20Feb1976	30.0	100.0	130.0
21Feb1976	30.0	100.0	130.0
22Feb1976	30.0	100.0	130.0
23Feb1976	30.0	100.0	130.0
24Feb1976	30.0	100.0	130.0
25Feb1976	30.0	100.0	130.0
26Feb1976	30.0	100.0	130.0
27Feb1976	30.0	100.0	130.0
28Feb1976	30.0	100.0	130.0
29Feb1976	30.0	100.0	130.0
01Mar1976	30.0	100.0	130.0
02Mar1976	30.0	100.0	130.0
03Mar1976	30.0	100.0	130.0
04Mar1976	30.0	100.0	130.0
05Mar1976	30.0	100.0	130.0
06Mar1976	30.0	100.0	130.0
07Mar1976	30.0	100.0	130.0
08Mar1976	30.0	100.0	130.0
09Mar1976	30.0	100.0	130.0
10Mar1976	30.0	100.0	130.0
11Mar1976	30.0	100.0	130.0
12Mar1976	30.0	100.0	130.0
13Mar1976	30.0	100.0	130.0
14Mar1976	30.0	100.0	130.0
15Mar1976	30.0	100.0	130.0
16Mar1976	30.0	100.0	130.0
17Mar1976	30.0	100.0	130.0
18Mar1976	30.0	100.0	130.0
19Mar1976	30.0	100.0	130.0
20Mar1976	30.0	100.0	130.0
21Mar1976	30.0	100.0	130.0
22Mar1976	30.0	100.0	130.0
23Mar1976	30.0	100.0	130.0
24Mar1976	30.0	100.0	130.0
25Mar1976	30.0	100.0	130.0
26Mar1976	30.0	100.0	130.0
27Mar1976	30.0	100.0	130.0
28Mar1976	30.0	100.0	130.0
29Mar1976	30.0	100.0	130.0
30Mar1976	30.0	100.0	130.0
31Mar1976	30.0	100.0	130.0

01Apr1976	40.0	100.0	140.0
02Apr1976	40.0	99.0	139.0
03Apr1976	40.0	98.0	138.0
04Apr1976	40.0	97.0	137.0
05Apr1976	40.0	96.0	136.0
06Apr1976	40.0	95.0	135.0
07Apr1976	40.0	94.0	134.0
08Apr1976	40.0	93.0	133.0
09Apr1976	40.0	92.0	132.0
10Apr1976	40.0	91.0	131.0
11Apr1976	40.0	90.0	130.0
12Apr1976	40.0	89.0	129.0
13Apr1976	40.0	88.0	128.0
14Apr1976	40.0	87.0	127.0
15Apr1976	40.0	86.0	126.0
16Apr1976	40.0	85.0	125.0
17Apr1976	40.0	84.0	124.0
18Apr1976	40.0	83.0	123.0
19Apr1976	40.0	82.0	122.0
20Apr1976	40.0	81.0	121.0
21Apr1976	40.0	80.0	120.0
22Apr1976	40.0	79.0	119.0
23Apr1976	40.0	78.0	118.0
24Apr1976	40.0	77.0	117.0
25Apr1976	40.0	76.0	116.0
26Apr1976	40.0	75.0	115.0
27Apr1976	40.0	74.0	114.0
28Apr1976	40.0	73.0	113.0
29Apr1976	40.0	72.0	112.0
30Apr1976	40.0	71.0	111.0
01May1976	45.0	70.0	115.0
02May1976	45.0	70.0	115.0
03May1976	45.0	70.0	115.0
04May1976	45.0	70.0	115.0
05May1976	45.0	70.0	115.0
06May1976	45.0	70.0	115.0
07May1976	45.0	70.0	115.0
08May1976	45.0	70.0	115.0
09May1976	45.0	70.0	115.0
10May1976	45.0	70.0	115.0
11May1976	45.0	70.0	115.0
12May1976	45.0	70.0	115.0
13May1976	45.0	70.0	115.0
14May1976	45.0	70.0	115.0
15May1976	45.0	70.0	115.0
16May1976	45.0	70.0	115.0
17May1976	45.0	70.0	115.0
18May1976	45.0	70.0	115.0
19May1976	45.0	70.0	115.0
20May1976	45.0	70.0	115.0
21May1976	45.0	70.0	115.0
22May1976	45.0	70.0	115.0
23May1976	45.0	70.0	115.0
24May1976	45.0	70.0	115.0
25May1976	45.0	70.0	115.0
26May1976	45.0	70.0	115.0

27May1976	45.0	70.0	115.0
28May1976	45.0	70.0	115.0
29May1976	45.0	70.0	115.0
30May1976	45.0	70.0	115.0
31May1976	45.0	70.0	115.0
01Jun1976	50.0	70.0	120.0
02Jun1976	50.0	70.0	120.0
03Jun1976	50.0	70.0	120.0
04Jun1976	50.0	70.0	120.0
05Jun1976	50.0	70.0	120.0
06Jun1976	50.0	70.0	120.0
07Jun1976	50.0	70.0	120.0
08Jun1976	50.0	70.0	120.0
09Jun1976	50.0	70.0	120.0
10Jun1976	50.0	70.0	120.0
11Jun1976	50.0	70.0	120.0
12Jun1976	50.0	70.0	120.0
13Jun1976	50.0	70.0	120.0
14Jun1976	50.0	70.0	120.0
15Jun1976	50.0	70.0	120.0
16Jun1976	50.0	70.0	120.0
17Jun1976	50.0	70.0	120.0
18Jun1976	50.0	70.0	120.0
19Jun1976	50.0	70.0	120.0
20Jun1976	50.0	70.0	120.0
21Jun1976	50.0	70.0	120.0
22Jun1976	50.0	70.0	120.0
23Jun1976	50.0	70.0	120.0
24Jun1976	50.0	70.0	120.0
25Jun1976	50.0	70.0	120.0
26Jun1976	50.0	70.0	120.0
27Jun1976	50.0	70.0	120.0
28Jun1976	50.0	70.0	120.0
29Jun1976	50.0	70.0	120.0
30Jun1976	50.0	70.0	120.0
01Jul1976	55.0	70.0	125.0
02Jul1976	55.0	70.0	125.0
03Jul1976	55.0	70.0	125.0
04Jul1976	55.0	70.0	125.0
05Jul1976	55.0	70.0	125.0
06Jul1976	55.0	70.0	125.0
07Jul1976	55.0	70.0	125.0
08Jul1976	55.0	70.0	125.0
09Jul1976	55.0	70.0	125.0
10Jul1976	55.0	70.0	125.0
11Jul1976	55.0	70.0	125.0
12Jul1976	55.0	70.0	125.0
13Jul1976	55.0	70.0	125.0
14Jul1976	55.0	70.0	125.0
15Jul1976	55.0	70.0	125.0
16Jul1976	55.0	70.0	125.0
17Jul1976	55.0	70.0	125.0
18Jul1976	55.0	70.0	125.0
19Jul1976	55.0	70.0	125.0
20Jul1976	55.0	70.0	125.0
21Jul1976	55.0	70.0	125.0

22Jul1976	55.0	70.0	125.0
23Jul1976	55.0	70.0	125.0
24Jul1976	55.0	70.0	125.0
25Jul1976	55.0	70.0	125.0
26Jul1976	55.0	70.0	125.0
27Jul1976	55.0	70.0	125.0
28Jul1976	55.0	70.0	125.0
29Jul1976	55.0	70.0	125.0
30Jul1976	55.0	70.0	125.0
31Jul1976	55.0	70.0	125.0
01Aug1976	70.0	70.0	140.0
02Aug1976	70.0	70.0	140.0
03Aug1976	70.0	70.0	140.0
04Aug1976	70.0	70.0	140.0
05Aug1976	70.0	70.0	140.0
06Aug1976	70.0	70.0	140.0
07Aug1976	70.0	70.0	140.0
08Aug1976	70.0	70.0	140.0
09Aug1976	70.0	70.0	140.0
10Aug1976	70.0	70.0	140.0
11Aug1976	70.0	70.0	140.0
12Aug1976	70.0	70.0	140.0
13Aug1976	70.0	70.0	140.0
14Aug1976	70.0	70.0	140.0
15Aug1976	70.0	70.0	140.0
16Aug1976	70.0	70.0	140.0
17Aug1976	70.0	70.0	140.0
18Aug1976	70.0	70.0	140.0
19Aug1976	70.0	70.0	140.0
20Aug1976	70.0	70.0	140.0
21Aug1976	70.0	70.0	140.0
22Aug1976	70.0	70.0	140.0
23Aug1976	70.0	70.0	140.0
24Aug1976	70.0	70.0	140.0
25Aug1976	70.0	70.0	140.0
26Aug1976	70.0	70.0	140.0
27Aug1976	70.0	70.0	140.0
28Aug1976	70.0	70.0	140.0
29Aug1976	70.0	70.0	140.0
30Aug1976	70.0	70.0	140.0
31Aug1976	70.0	70.0	140.0
01Sep1976	65.0	70.0	135.0
02Sep1976	65.0	70.3	135.3
03Sep1976	65.0	70.7	135.7
04Sep1976	65.0	71.0	136.0
05Sep1976	65.0	71.3	136.3
06Sep1976	65.0	71.7	136.7
07Sep1976	65.0	72.0	137.0
08Sep1976	65.0	72.3	137.3
09Sep1976	65.0	72.7	137.7
10Sep1976	65.0	73.0	138.0
11Sep1976	65.0	73.3	138.3
12Sep1976	65.0	73.7	138.7
13Sep1976	65.0	74.0	139.0
14Sep1976	65.0	74.3	139.3
15Sep1976	65.0	74.7	139.7

16Sep1976	65.0	75.0	140.0
17Sep1976	65.0	75.3	140.3
18Sep1976	65.0	75.7	140.7
19Sep1976	65.0	76.0	141.0
20Sep1976	65.0	76.3	141.3
21Sep1976	65.0	76.7	141.7
22Sep1976	65.0	77.0	142.0
23Sep1976	65.0	77.3	142.3
24Sep1976	65.0	77.7	142.7
25Sep1976	65.0	78.0	143.0
26Sep1976	65.0	78.3	143.3
27Sep1976	65.0	78.7	143.7
28Sep1976	65.0	79.0	144.0
29Sep1976	65.0	79.3	144.3
30Sep1976	65.0	79.7	144.7
01Oct1976	30.0	80.0	110.0
02Oct1976	30.0	80.0	110.0
03Oct1976	30.0	80.0	110.0
04Oct1976	30.0	80.0	110.0
05Oct1976	30.0	80.0	110.0
06Oct1976	30.0	80.0	110.0
07Oct1976	30.0	80.0	110.0
08Oct1976	30.0	80.0	110.0
09Oct1976	30.0	80.0	110.0
10Oct1976	30.0	80.0	110.0
11Oct1976	30.0	80.0	110.0
12Oct1976	30.0	80.0	110.0
13Oct1976	30.0	80.0	110.0
14Oct1976	30.0	80.0	110.0
15Oct1976	30.0	80.0	110.0
16Oct1976	30.0	80.0	110.0
17Oct1976	30.0	80.0	110.0
18Oct1976	30.0	80.0	110.0
19Oct1976	30.0	80.0	110.0
20Oct1976	30.0	80.0	110.0
21Oct1976	30.0	80.0	110.0
22Oct1976	30.0	80.0	110.0
23Oct1976	30.0	80.0	110.0
24Oct1976	30.0	80.0	110.0
25Oct1976	30.0	80.0	110.0
26Oct1976	30.0	80.0	110.0
27Oct1976	30.0	80.0	110.0
28Oct1976	30.0	80.0	110.0
29Oct1976	30.0	80.0	110.0
30Oct1976	30.0	80.0	110.0
31Oct1976	30.0	80.0	110.0
01Nov1976	3.0	80.0	83.0
02Nov1976	3.0	80.0	83.0
03Nov1976	3.0	80.0	83.0
04Nov1976	3.0	80.0	83.0
05Nov1976	3.0	80.0	83.0
06Nov1976	3.0	80.0	83.0
07Nov1976	3.0	80.0	83.0
08Nov1976	3.0	80.0	83.0
09Nov1976	3.0	80.0	83.0
10Nov1976	3.0	80.0	83.0

11Nov1976	3.0	80.0	83.0
12Nov1976	3.0	80.0	83.0
13Nov1976	3.0	80.0	83.0
14Nov1976	3.0	80.0	83.0
15Nov1976	3.0	80.0	83.0
16Nov1976	3.0	80.0	83.0
17Nov1976	3.0	80.0	83.0
18Nov1976	3.0	80.0	83.0
19Nov1976	3.0	80.0	83.0
20Nov1976	3.0	80.0	83.0
21Nov1976	3.0	80.0	83.0
22Nov1976	3.0	80.0	83.0
23Nov1976	3.0	80.0	83.0
24Nov1976	3.0	80.0	83.0
25Nov1976	3.0	80.0	83.0
26Nov1976	3.0	80.0	83.0
27Nov1976	3.0	80.0	83.0
28Nov1976	3.0	80.0	83.0
29Nov1976	3.0	80.0	83.0
30Nov1976	3.0	80.0	83.0
01Dec1976	1.0	80.0	81.0
02Dec1976	1.0	80.0	81.0
03Dec1976	1.0	80.0	81.0
04Dec1976	1.0	80.0	81.0
05Dec1976	1.0	80.0	81.0
06Dec1976	1.0	80.0	81.0
07Dec1976	1.0	80.0	81.0
08Dec1976	1.0	80.0	81.0
09Dec1976	1.0	80.0	81.0
10Dec1976	1.0	80.0	81.0
11Dec1976	1.0	80.0	81.0
12Dec1976	1.0	80.0	81.0
13Dec1976	1.0	80.0	81.0
14Dec1976	1.0	80.0	81.0
15Dec1976	1.0	80.0	81.0
16Dec1976	1.0	80.0	81.0
17Dec1976	1.0	80.0	81.0
18Dec1976	1.0	80.0	81.0
19Dec1976	1.0	80.0	81.0
20Dec1976	1.0	80.0	81.0
21Dec1976	1.0	80.0	81.0
22Dec1976	1.0	80.0	81.0
23Dec1976	1.0	80.0	81.0
24Dec1976	1.0	80.0	81.0
25Dec1976	1.0	80.0	81.0
26Dec1976	1.0	80.0	81.0
27Dec1976	1.0	80.0	81.0
28Dec1976	1.0	80.0	81.0
29Dec1976	1.0	80.0	81.0
30Dec1976	1.0	80.0	81.0
31Dec1976	1.0	80.0	81.0
01Jan1977	10.0	80.0	90.0
02Jan1977	10.0	80.6	90.6
03Jan1977	10.0	81.3	91.3
04Jan1977	10.0	81.9	91.9
05Jan1977	10.0	82.6	92.6

06Jan1977	10.0	83.2	93.2
07Jan1977	10.0	83.9	93.9
08Jan1977	10.0	84.5	94.5
09Jan1977	10.0	85.2	95.2
10Jan1977	10.0	85.8	95.8
11Jan1977	10.0	86.5	96.5
12Jan1977	10.0	87.1	97.1
13Jan1977	10.0	87.7	97.7
14Jan1977	10.0	88.4	98.4
15Jan1977	10.0	89.0	99.0
16Jan1977	10.0	89.7	99.7
17Jan1977	10.0	90.3	100.3
18Jan1977	10.0	91.0	101.0
19Jan1977	10.0	91.6	101.6
20Jan1977	10.0	92.3	102.3
21Jan1977	10.0	92.9	102.9
22Jan1977	10.0	93.5	103.5
23Jan1977	10.0	94.2	104.2
24Jan1977	10.0	94.8	104.8
25Jan1977	10.0	95.5	105.5
26Jan1977	10.0	96.1	106.1
27Jan1977	10.0	96.8	106.8
28Jan1977	10.0	97.4	107.4
29Jan1977	10.0	98.1	108.1
30Jan1977	10.0	98.7	108.7
31Jan1977	10.0	99.4	109.4
01Feb1977	30.0	100.0	130.0
02Feb1977	30.0	100.0	130.0
03Feb1977	30.0	100.0	130.0
04Feb1977	30.0	100.0	130.0
05Feb1977	30.0	100.0	130.0
06Feb1977	30.0	100.0	130.0
07Feb1977	30.0	100.0	130.0
08Feb1977	30.0	100.0	130.0
09Feb1977	30.0	100.0	130.0
10Feb1977	30.0	100.0	130.0
11Feb1977	30.0	100.0	130.0
12Feb1977	30.0	100.0	130.0
13Feb1977	30.0	100.0	130.0
14Feb1977	30.0	100.0	130.0
15Feb1977	30.0	100.0	130.0
16Feb1977	30.0	100.0	130.0
17Feb1977	30.0	100.0	130.0
18Feb1977	30.0	100.0	130.0
19Feb1977	30.0	100.0	130.0
20Feb1977	30.0	100.0	130.0
21Feb1977	30.0	100.0	130.0
22Feb1977	30.0	100.0	130.0
23Feb1977	30.0	100.0	130.0
24Feb1977	30.0	100.0	130.0
25Feb1977	30.0	100.0	130.0
26Feb1977	30.0	100.0	130.0
27Feb1977	30.0	100.0	130.0
28Feb1977	30.0	100.0	130.0
01Mar1977	30.0	100.0	130.0
02Mar1977	30.0	100.0	130.0

03Mar1977	30.0	100.0	130.0
04Mar1977	30.0	100.0	130.0
05Mar1977	30.0	100.0	130.0
06Mar1977	30.0	100.0	130.0
07Mar1977	30.0	100.0	130.0
08Mar1977	30.0	100.0	130.0
09Mar1977	30.0	100.0	130.0
10Mar1977	30.0	100.0	130.0
11Mar1977	30.0	100.0	130.0
12Mar1977	30.0	100.0	130.0
13Mar1977	30.0	100.0	130.0
14Mar1977	30.0	100.0	130.0
15Mar1977	30.0	100.0	130.0
16Mar1977	30.0	100.0	130.0
17Mar1977	30.0	100.0	130.0
18Mar1977	30.0	100.0	130.0
19Mar1977	30.0	100.0	130.0
20Mar1977	30.0	100.0	130.0
21Mar1977	30.0	100.0	130.0
22Mar1977	30.0	100.0	130.0
23Mar1977	30.0	100.0	130.0
24Mar1977	30.0	100.0	130.0
25Mar1977	30.0	100.0	130.0
26Mar1977	30.0	100.0	130.0
27Mar1977	30.0	100.0	130.0
28Mar1977	30.0	100.0	130.0
29Mar1977	30.0	100.0	130.0
30Mar1977	30.0	100.0	130.0
31Mar1977	30.0	100.0	130.0
01Apr1977	40.0	100.0	140.0
02Apr1977	40.0	99.0	139.0
03Apr1977	40.0	98.0	138.0
04Apr1977	40.0	97.0	137.0
05Apr1977	40.0	96.0	136.0
06Apr1977	40.0	95.0	135.0
07Apr1977	40.0	94.0	134.0
08Apr1977	40.0	93.0	133.0
09Apr1977	40.0	92.0	132.0
10Apr1977	40.0	91.0	131.0
11Apr1977	40.0	90.0	130.0
12Apr1977	40.0	89.0	129.0
13Apr1977	40.0	88.0	128.0
14Apr1977	40.0	87.0	127.0
15Apr1977	40.0	86.0	126.0
16Apr1977	40.0	85.0	125.0
17Apr1977	40.0	84.0	124.0
18Apr1977	40.0	83.0	123.0
19Apr1977	40.0	82.0	122.0
20Apr1977	40.0	81.0	121.0
21Apr1977	40.0	80.0	120.0
22Apr1977	40.0	79.0	119.0
23Apr1977	40.0	78.0	118.0
24Apr1977	40.0	77.0	117.0
25Apr1977	40.0	76.0	116.0
26Apr1977	40.0	75.0	115.0
27Apr1977	40.0	74.0	114.0

28Apr1977	40.0	73.0	113.0
29Apr1977	40.0	72.0	112.0
30Apr1977	40.0	71.0	111.0
01May1977	45.0	70.0	115.0
02May1977	45.0	70.0	115.0
03May1977	45.0	70.0	115.0
04May1977	45.0	70.0	115.0
05May1977	45.0	70.0	115.0
06May1977	45.0	70.0	115.0
07May1977	45.0	70.0	115.0
08May1977	45.0	70.0	115.0
09May1977	45.0	70.0	115.0
10May1977	45.0	70.0	115.0
11May1977	45.0	70.0	115.0
12May1977	45.0	70.0	115.0
13May1977	45.0	70.0	115.0
14May1977	45.0	70.0	115.0
15May1977	45.0	70.0	115.0
16May1977	45.0	70.0	115.0
17May1977	45.0	70.0	115.0
18May1977	45.0	70.0	115.0
19May1977	45.0	70.0	115.0
20May1977	45.0	70.0	115.0
21May1977	45.0	70.0	115.0
22May1977	45.0	70.0	115.0
23May1977	45.0	70.0	115.0
24May1977	45.0	70.0	115.0
25May1977	45.0	70.0	115.0
26May1977	45.0	70.0	115.0
27May1977	45.0	70.0	115.0
28May1977	45.0	70.0	115.0
29May1977	45.0	70.0	115.0
30May1977	45.0	70.0	115.0
31May1977	45.0	70.0	115.0
01Jun1977	50.0	70.0	120.0
02Jun1977	50.0	70.0	120.0
03Jun1977	50.0	70.0	120.0
04Jun1977	50.0	70.0	120.0
05Jun1977	50.0	70.0	120.0
06Jun1977	50.0	70.0	120.0
07Jun1977	50.0	70.0	120.0
08Jun1977	50.0	70.0	120.0
09Jun1977	50.0	70.0	120.0
10Jun1977	50.0	70.0	120.0
11Jun1977	50.0	70.0	120.0
12Jun1977	50.0	70.0	120.0
13Jun1977	50.0	70.0	120.0
14Jun1977	50.0	70.0	120.0
15Jun1977	50.0	70.0	120.0
16Jun1977	50.0	70.0	120.0
17Jun1977	50.0	70.0	120.0
18Jun1977	50.0	70.0	120.0
19Jun1977	50.0	70.0	120.0
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21Jun1977	50.0	70.0	120.0
22Jun1977	50.0	70.0	120.0

23Jun1977	50.0	70.0	120.0
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03Jul1977	55.0	70.0	125.0
04Jul1977	55.0	70.0	125.0
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06Jul1977	55.0	70.0	125.0
07Jul1977	55.0	70.0	125.0
08Jul1977	55.0	70.0	125.0
09Jul1977	55.0	70.0	125.0
10Jul1977	55.0	70.0	125.0
11Jul1977	55.0	70.0	125.0
12Jul1977	55.0	70.0	125.0
13Jul1977	55.0	70.0	125.0
14Jul1977	55.0	70.0	125.0
15Jul1977	55.0	70.0	125.0
16Jul1977	55.0	70.0	125.0
17Jul1977	55.0	70.0	125.0
18Jul1977	55.0	70.0	125.0
19Jul1977	55.0	70.0	125.0
20Jul1977	55.0	70.0	125.0
21Jul1977	55.0	70.0	125.0
22Jul1977	55.0	70.0	125.0
23Jul1977	55.0	70.0	125.0
24Jul1977	55.0	70.0	125.0
25Jul1977	55.0	70.0	125.0
26Jul1977	55.0	70.0	125.0
27Jul1977	55.0	70.0	125.0
28Jul1977	55.0	70.0	125.0
29Jul1977	55.0	70.0	125.0
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31Jul1977	55.0	70.0	125.0
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03Aug1977	70.0	70.0	140.0
04Aug1977	70.0	70.0	140.0
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06Aug1977	70.0	70.0	140.0
07Aug1977	70.0	70.0	140.0
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03Sep1977	65.0	70.7	135.7
04Sep1977	65.0	71.0	136.0
05Sep1977	65.0	71.3	136.3
06Sep1977	65.0	71.7	136.7
07Sep1977	65.0	72.0	137.0
08Sep1977	65.0	72.3	137.3
09Sep1977	65.0	72.7	137.7
10Sep1977	65.0	73.0	138.0
11Sep1977	65.0	73.3	138.3
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13Sep1977	65.0	74.0	139.0
14Sep1977	65.0	74.3	139.3
15Sep1977	65.0	74.7	139.7
16Sep1977	65.0	75.0	140.0
17Sep1977	65.0	75.3	140.3
18Sep1977	65.0	75.7	140.7
19Sep1977	65.0	76.0	141.0
20Sep1977	65.0	76.3	141.3
21Sep1977	65.0	76.7	141.7
22Sep1977	65.0	77.0	142.0
23Sep1977	65.0	77.3	142.3
24Sep1977	65.0	77.7	142.7
25Sep1977	65.0	78.0	143.0
26Sep1977	65.0	78.3	143.3
27Sep1977	65.0	78.7	143.7
28Sep1977	65.0	79.0	144.0
29Sep1977	65.0	79.3	144.3
30Sep1977	65.0	79.7	144.7
01Oct1977	30.0	80.0	110.0
02Oct1977	30.0	80.0	110.0
03Oct1977	30.0	80.0	110.0
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06Oct1977	30.0	80.0	110.0
07Oct1977	30.0	80.0	110.0
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11Oct1977	30.0	80.0	110.0
12Oct1977	30.0	80.0	110.0

13Oct1977	30.0	80.0	110.0
14Oct1977	30.0	80.0	110.0
15Oct1977	30.0	80.0	110.0
16Oct1977	30.0	80.0	110.0
17Oct1977	30.0	80.0	110.0
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30Oct1977	30.0	80.0	110.0
31Oct1977	30.0	80.0	110.0
01Nov1977	3.0	80.0	83.0
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03Nov1977	3.0	80.0	83.0
04Nov1977	3.0	80.0	83.0
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06Nov1977	3.0	80.0	83.0
07Nov1977	3.0	80.0	83.0
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27Nov1977	3.0	80.0	83.0
28Nov1977	3.0	80.0	83.0
29Nov1977	3.0	80.0	83.0
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03Dec1977	1.0	80.0	81.0
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06Dec1977	1.0	80.0	81.0
07Dec1977	1.0	80.0	81.0

08Dec1977	1.0	80.0	81.0
09Dec1977	1.0	80.0	81.0
10Dec1977	1.0	80.0	81.0
11Dec1977	1.0	80.0	81.0
12Dec1977	1.0	80.0	81.0
13Dec1977	1.0	80.0	81.0
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15Dec1977	1.0	80.0	81.0
16Dec1977	1.0	80.0	81.0
17Dec1977	1.0	80.0	81.0
18Dec1977	1.0	80.0	81.0
19Dec1977	1.0	80.0	81.0
20Dec1977	1.0	80.0	81.0
21Dec1977	1.0	80.0	81.0
22Dec1977	1.0	80.0	81.0
23Dec1977	1.0	80.0	81.0
24Dec1977	1.0	80.0	81.0
25Dec1977	1.0	80.0	81.0
26Dec1977	1.0	80.0	81.0
27Dec1977	1.0	80.0	81.0
28Dec1977	1.0	80.0	81.0
29Dec1977	1.0	80.0	81.0
30Dec1977	1.0	80.0	81.0
31Dec1977	1.0	80.0	81.0
01Jan1978	10.0	80.0	90.0
02Jan1978	10.0	80.6	90.6
03Jan1978	10.0	81.3	91.3
04Jan1978	10.0	81.9	91.9
05Jan1978	10.0	82.6	92.6
06Jan1978	41.0	83.2	124.2
07Jan1978	431.0	235.5	666.5
08Jan1978	108.0	84.5	192.5
09Jan1978	48.0	85.2	133.2
10Jan1978	159.0	86.9	245.9
11Jan1978	514.0	280.9	794.9
12Jan1978	162.0	88.5	250.5
13Jan1978	72.0	87.7	159.7
14Jan1978	156.0	88.4	244.4
15Jan1978	1460.0	797.8	2257.8
16Jan1978	1030.0	562.8	1592.8
17Jan1978	594.0	324.6	918.6
18Jan1978	678.0	370.5	1048.5
19Jan1978	257.0	140.4	397.4
20Jan1978	397.0	216.9	613.9
21Jan1978	204.0	111.5	315.5
22Jan1978	119.0	93.5	212.5
23Jan1978	85.0	94.2	179.2
24Jan1978	67.0	94.8	161.8
25Jan1978	53.0	95.5	148.5
26Jan1978	43.0	96.1	139.1
27Jan1978	35.0	96.8	131.8
28Jan1978	29.0	97.4	126.4
29Jan1978	25.0	98.1	123.1
30Jan1978	21.0	98.7	119.7
31Jan1978	18.0	99.4	117.4
01Feb1978	15.0	100.0	115.0

02Feb1978	14.0	100.0	114.0
03Feb1978	13.0	100.0	113.0
04Feb1978	13.0	100.0	113.0
05Feb1978	13.0	100.0	113.0
06Feb1978	31.0	100.0	131.0
07Feb1978	313.0	171.0	484.0
08Feb1978	1320.0	721.3	2041.3
09Feb1978	1220.0	666.6	1886.6
10Feb1978	2260.0	1234.9	3494.9
11Feb1978	858.0	468.8	1326.8
12Feb1978	332.0	181.4	513.4
13Feb1978	714.0	390.1	1104.1
14Feb1978	807.0	440.9	1247.9
15Feb1978	281.0	153.5	434.5
16Feb1978	163.0	100.0	263.0
17Feb1978	118.0	100.0	218.0
18Feb1978	94.0	100.0	194.0
19Feb1978	73.0	100.0	173.0
20Feb1978	63.0	100.0	163.0
21Feb1978	54.0	100.0	154.0
22Feb1978	47.0	100.0	147.0
23Feb1978	42.0	100.0	142.0
24Feb1978	37.0	100.0	137.0
25Feb1978	34.0	100.0	134.0
26Feb1978	31.0	100.0	131.0
27Feb1978	30.0	100.0	130.0
28Feb1978	30.0	100.0	130.0
01Mar1978	30.0	100.0	130.0
02Mar1978	32.0	100.0	132.0
03Mar1978	307.0	167.7	474.7
04Mar1978	289.0	157.9	446.9
05Mar1978	2490.0	1360.5	3850.5
06Mar1978	1920.0	1049.1	2969.1
07Mar1978	633.0	345.9	978.9
08Mar1978	256.0	139.9	395.9
09Mar1978	168.0	100.0	268.0
10Mar1978	234.0	127.9	361.9
11Mar1978	313.0	171.0	484.0
12Mar1978	173.0	100.0	273.0
13Mar1978	330.0	180.3	510.3
14Mar1978	130.0	100.0	230.0
15Mar1978	84.0	100.0	184.0
16Mar1978	67.0	100.0	167.0
17Mar1978	55.0	100.0	155.0
18Mar1978	47.0	100.0	147.0
19Mar1978	46.0	100.0	146.0
20Mar1978	43.0	100.0	143.0
21Mar1978	40.0	100.0	140.0
22Mar1978	40.0	100.0	140.0
23Mar1978	49.0	100.0	149.0
24Mar1978	44.0	100.0	144.0
25Mar1978	30.0	100.0	130.0
26Mar1978	30.0	100.0	130.0
27Mar1978	30.0	100.0	130.0
28Mar1978	30.0	100.0	130.0
29Mar1978	30.0	100.0	130.0

30Mar1978	30.0	100.0	130.0
31Mar1978	30.0	100.0	130.0
01Apr1978	179.0	100.0	279.0
02Apr1978	180.0	99.0	279.0
03Apr1978	85.0	98.0	183.0
04Apr1978	126.0	97.0	223.0
05Apr1978	196.0	107.1	303.1
06Apr1978	234.0	127.9	361.9
07Apr1978	1240.0	677.5	1917.5
08Apr1978	648.0	354.1	1002.1
09Apr1978	342.0	186.9	528.9
10Apr1978	254.0	138.8	392.8
11Apr1978	219.0	119.7	338.7
12Apr1978	198.0	108.2	306.2
13Apr1978	184.0	100.5	284.5
14Apr1978	173.0	94.5	267.5
15Apr1978	166.0	90.7	256.7
16Apr1978	193.0	105.5	298.5
17Apr1978	697.0	380.8	1077.8
18Apr1978	429.0	234.4	663.4
19Apr1978	236.0	129.0	365.0
20Apr1978	180.0	98.4	278.4
21Apr1978	115.0	80.0	195.0
22Apr1978	116.0	79.0	195.0
23Apr1978	112.0	78.0	190.0
24Apr1978	96.0	77.0	173.0
25Apr1978	322.0	175.9	497.9
26Apr1978	2070.0	1131.1	3201.1
27Apr1978	782.0	427.3	1209.3
28Apr1978	247.0	135.0	382.0
29Apr1978	151.0	82.5	233.5
30Apr1978	107.0	71.0	178.0
01May1978	81.0	70.0	151.0
02May1978	66.0	70.0	136.0
03May1978	55.0	70.0	125.0
04May1978	46.0	70.0	116.0
05May1978	73.0	70.0	143.0
06May1978	103.0	70.0	173.0
07May1978	78.0	70.0	148.0
08May1978	61.0	70.0	131.0
09May1978	52.0	70.0	122.0
10May1978	45.0	70.0	115.0
11May1978	45.0	70.0	115.0
12May1978	45.0	70.0	115.0
13May1978	45.0	70.0	115.0
14May1978	45.0	70.0	115.0
15May1978	45.0	70.0	115.0
16May1978	45.0	70.0	115.0
17May1978	45.0	70.0	115.0
18May1978	45.0	70.0	115.0
19May1978	45.0	70.0	115.0
20May1978	45.0	70.0	115.0
21May1978	45.0	70.0	115.0
22May1978	45.0	70.0	115.0
23May1978	45.0	70.0	115.0
24May1978	45.0	70.0	115.0

25May1978	45.0	70.0	115.0
26May1978	45.0	70.0	115.0
27May1978	45.0	70.0	115.0
28May1978	45.0	70.0	115.0
29May1978	45.0	70.0	115.0
30May1978	45.0	70.0	115.0
31May1978	45.0	70.0	115.0
01Jun1978	50.0	70.0	120.0
02Jun1978	50.0	70.0	120.0
03Jun1978	50.0	70.0	120.0
04Jun1978	50.0	70.0	120.0
05Jun1978	50.0	70.0	120.0
06Jun1978	50.0	70.0	120.0
07Jun1978	50.0	70.0	120.0
08Jun1978	50.0	70.0	120.0
09Jun1978	50.0	70.0	120.0
10Jun1978	50.0	70.0	120.0
11Jun1978	50.0	70.0	120.0
12Jun1978	50.0	70.0	120.0
13Jun1978	50.0	70.0	120.0
14Jun1978	50.0	70.0	120.0
15Jun1978	50.0	70.0	120.0
16Jun1978	50.0	70.0	120.0
17Jun1978	50.0	70.0	120.0
18Jun1978	50.0	70.0	120.0
19Jun1978	50.0	70.0	120.0
20Jun1978	50.0	70.0	120.0
21Jun1978	50.0	70.0	120.0
22Jun1978	50.0	70.0	120.0
23Jun1978	50.0	70.0	120.0
24Jun1978	50.0	70.0	120.0
25Jun1978	50.0	70.0	120.0
26Jun1978	50.0	70.0	120.0
27Jun1978	50.0	70.0	120.0
28Jun1978	50.0	70.0	120.0
29Jun1978	50.0	70.0	120.0
30Jun1978	50.0	70.0	120.0
01Jul1978	55.0	70.0	125.0
02Jul1978	55.0	70.0	125.0
03Jul1978	55.0	70.0	125.0
04Jul1978	55.0	70.0	125.0
05Jul1978	55.0	70.0	125.0
06Jul1978	55.0	70.0	125.0
07Jul1978	55.0	70.0	125.0
08Jul1978	55.0	70.0	125.0
09Jul1978	55.0	70.0	125.0
10Jul1978	55.0	70.0	125.0
11Jul1978	55.0	70.0	125.0
12Jul1978	55.0	70.0	125.0
13Jul1978	55.0	70.0	125.0
14Jul1978	55.0	70.0	125.0
15Jul1978	55.0	70.0	125.0
16Jul1978	55.0	70.0	125.0
17Jul1978	55.0	70.0	125.0
18Jul1978	55.0	70.0	125.0
19Jul1978	55.0	70.0	125.0

20Jul1978	55.0	70.0	125.0
21Jul1978	55.0	70.0	125.0
22Jul1978	55.0	70.0	125.0
23Jul1978	55.0	70.0	125.0
24Jul1978	55.0	70.0	125.0
25Jul1978	55.0	70.0	125.0
26Jul1978	55.0	70.0	125.0
27Jul1978	55.0	70.0	125.0
28Jul1978	55.0	70.0	125.0
29Jul1978	55.0	70.0	125.0
30Jul1978	55.0	70.0	125.0
31Jul1978	55.0	70.0	125.0
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02Aug1978	70.0	70.0	140.0
03Aug1978	70.0	70.0	140.0
04Aug1978	70.0	70.0	140.0
05Aug1978	70.0	70.0	140.0
06Aug1978	70.0	70.0	140.0
07Aug1978	70.0	70.0	140.0
08Aug1978	70.0	70.0	140.0
09Aug1978	70.0	70.0	140.0
10Aug1978	70.0	70.0	140.0
11Aug1978	70.0	70.0	140.0
12Aug1978	70.0	70.0	140.0
13Aug1978	70.0	70.0	140.0
14Aug1978	70.0	70.0	140.0
15Aug1978	70.0	70.0	140.0
16Aug1978	70.0	70.0	140.0
17Aug1978	70.0	70.0	140.0
18Aug1978	70.0	70.0	140.0
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22Aug1978	70.0	70.0	140.0
23Aug1978	70.0	70.0	140.0
24Aug1978	70.0	70.0	140.0
25Aug1978	70.0	70.0	140.0
26Aug1978	70.0	70.0	140.0
27Aug1978	70.0	70.0	140.0
28Aug1978	70.0	70.0	140.0
29Aug1978	70.0	70.0	140.0
30Aug1978	70.0	70.0	140.0
31Aug1978	70.0	70.0	140.0
01Sep1978	65.0	70.0	135.0
02Sep1978	65.0	70.3	135.3
03Sep1978	65.0	70.7	135.7
04Sep1978	65.0	71.0	136.0
05Sep1978	65.0	71.3	136.3
06Sep1978	65.0	71.7	136.7
07Sep1978	65.0	72.0	137.0
08Sep1978	65.0	72.3	137.3
09Sep1978	65.0	72.7	137.7
10Sep1978	65.0	73.0	138.0
11Sep1978	65.0	73.3	138.3
12Sep1978	65.0	73.7	138.7
13Sep1978	65.0	74.0	139.0

14Sep1978	65.0	74.3	139.3
15Sep1978	65.0	74.7	139.7
16Sep1978	65.0	75.0	140.0
17Sep1978	65.0	75.3	140.3
18Sep1978	65.0	75.7	140.7
19Sep1978	65.0	76.0	141.0
20Sep1978	65.0	76.3	141.3
21Sep1978	65.0	76.7	141.7
22Sep1978	65.0	77.0	142.0
23Sep1978	65.0	77.3	142.3
24Sep1978	65.0	77.7	142.7
25Sep1978	65.0	78.0	143.0
26Sep1978	65.0	78.3	143.3
27Sep1978	65.0	78.7	143.7
28Sep1978	65.0	79.0	144.0
29Sep1978	65.0	79.3	144.3
30Sep1978	65.0	79.7	144.7
01Oct1978	30.0	80.0	110.0
02Oct1978	30.0	80.0	110.0
03Oct1978	30.0	80.0	110.0
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05Oct1978	30.0	80.0	110.0
06Oct1978	30.0	80.0	110.0
07Oct1978	30.0	80.0	110.0
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28Oct1978	30.0	80.0	110.0
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30Oct1978	30.0	80.0	110.0
31Oct1978	30.0	80.0	110.0
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04Nov1978	3.0	80.0	83.0
05Nov1978	3.0	80.0	83.0
06Nov1978	3.0	80.0	83.0
07Nov1978	3.0	80.0	83.0
08Nov1978	3.0	80.0	83.0

09Nov1978	3.0	80.0	83.0
10Nov1978	3.0	80.0	83.0
11Nov1978	3.0	80.0	83.0
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27Dec1978	1.0	80.0	81.0
28Dec1978	1.0	80.0	81.0
29Dec1978	1.0	80.0	81.0
30Dec1978	1.0	80.0	81.0
31Dec1978	1.0	80.0	81.0
01Jan1979	10.0	80.0	90.0
02Jan1979	10.0	80.6	90.6
03Jan1979	10.0	81.3	91.3

04Jan1979	10.0	81.9	91.9
05Jan1979	10.0	82.6	92.6
06Jan1979	10.0	83.2	93.2
07Jan1979	10.0	83.9	93.9
08Jan1979	10.0	84.5	94.5
09Jan1979	158.0	86.3	244.3
10Jan1979	267.0	145.9	412.9
11Jan1979	92.0	86.5	178.5
12Jan1979	1860.0	1016.3	2876.3
13Jan1979	616.0	336.6	952.6
14Jan1979	186.0	101.6	287.6
15Jan1979	1090.0	595.6	1685.6
16Jan1979	1210.0	661.2	1871.2
17Jan1979	271.0	148.1	419.1
18Jan1979	306.0	167.2	473.2
19Jan1979	376.0	205.4	581.4
20Jan1979	164.0	92.3	256.3
21Jan1979	109.0	92.9	201.9
22Jan1979	85.0	93.5	178.5
23Jan1979	71.0	94.2	165.2
24Jan1979	59.0	94.8	153.8
25Jan1979	53.0	95.5	148.5
26Jan1979	48.0	96.1	144.1
27Jan1979	44.0	96.8	140.8
28Jan1979	42.0	97.4	139.4
29Jan1979	38.0	98.1	136.1
30Jan1979	35.0	98.7	133.7
31Jan1979	35.0	99.4	134.4
01Feb1979	34.0	100.0	134.0
02Feb1979	109.0	100.0	209.0
03Feb1979	213.0	116.4	329.4
04Feb1979	118.0	100.0	218.0
05Feb1979	74.0	100.0	174.0
06Feb1979	58.0	100.0	158.0
07Feb1979	50.0	100.0	150.0
08Feb1979	61.0	100.0	161.0
09Feb1979	62.0	100.0	162.0
10Feb1979	60.0	100.0	160.0
11Feb1979	61.0	100.0	161.0
12Feb1979	89.0	100.0	189.0
13Feb1979	214.0	116.9	330.9
14Feb1979	547.0	298.9	845.9
15Feb1979	399.0	218.0	617.0
16Feb1979	282.0	154.1	436.1
17Feb1979	195.0	106.5	301.5
18Feb1979	168.0	100.0	268.0
19Feb1979	137.0	100.0	237.0
20Feb1979	173.0	100.0	273.0
21Feb1979	378.0	206.5	584.5
22Feb1979	253.0	138.2	391.2
23Feb1979	205.0	112.0	317.0
24Feb1979	181.0	100.0	281.0
25Feb1979	172.0	100.0	272.0
26Feb1979	164.0	100.0	264.0
27Feb1979	172.0	100.0	272.0
28Feb1979	253.0	138.2	391.2

01Mar1979	1260.0	688.5	1948.5
02Mar1979	1590.0	868.8	2458.8
03Mar1979	356.0	194.5	550.5
04Mar1979	205.0	112.0	317.0
05Mar1979	156.0	100.0	256.0
06Mar1979	146.0	100.0	246.0
07Mar1979	126.0	100.0	226.0
08Mar1979	115.0	100.0	215.0
09Mar1979	103.0	100.0	203.0
10Mar1979	96.0	100.0	196.0
11Mar1979	94.0	100.0	194.0
12Mar1979	84.0	100.0	184.0
13Mar1979	76.0	100.0	176.0
14Mar1979	73.0	100.0	173.0
15Mar1979	30.0	100.0	130.0
16Mar1979	30.0	100.0	130.0
17Mar1979	30.0	100.0	130.0
18Mar1979	30.0	100.0	130.0
19Mar1979	30.0	100.0	130.0
20Mar1979	30.0	100.0	130.0
21Mar1979	30.0	100.0	130.0
22Mar1979	30.0	100.0	130.0
23Mar1979	30.0	100.0	130.0
24Mar1979	30.0	100.0	130.0
25Mar1979	30.0	100.0	130.0
26Mar1979	30.0	100.0	130.0
27Mar1979	30.0	100.0	130.0
28Mar1979	30.0	100.0	130.0
29Mar1979	30.0	100.0	130.0
30Mar1979	30.0	100.0	130.0
31Mar1979	30.0	100.0	130.0
01Apr1979	40.0	100.0	140.0
02Apr1979	40.0	99.0	139.0
03Apr1979	40.0	98.0	138.0
04Apr1979	40.0	97.0	137.0
05Apr1979	40.0	96.0	136.0
06Apr1979	40.0	95.0	135.0
07Apr1979	40.0	94.0	134.0
08Apr1979	40.0	93.0	133.0
09Apr1979	40.0	92.0	132.0
10Apr1979	40.0	91.0	131.0
11Apr1979	40.0	90.0	130.0
12Apr1979	40.0	89.0	129.0
13Apr1979	40.0	88.0	128.0
14Apr1979	40.0	87.0	127.0
15Apr1979	40.0	86.0	126.0
16Apr1979	40.0	85.0	125.0
17Apr1979	40.0	84.0	124.0
18Apr1979	40.0	83.0	123.0
19Apr1979	40.0	82.0	122.0
20Apr1979	40.0	81.0	121.0
21Apr1979	40.0	80.0	120.0
22Apr1979	40.0	79.0	119.0
23Apr1979	40.0	78.0	118.0
24Apr1979	40.0	77.0	117.0
25Apr1979	40.0	76.0	116.0

26Apr1979	40.0	75.0	115.0
27Apr1979	40.0	74.0	114.0
28Apr1979	40.0	73.0	113.0
29Apr1979	40.0	72.0	112.0
30Apr1979	40.0	71.0	111.0
01May1979	45.0	70.0	115.0
02May1979	45.0	70.0	115.0
03May1979	45.0	70.0	115.0
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17May1979	45.0	70.0	115.0
18May1979	45.0	70.0	115.0
19May1979	45.0	70.0	115.0
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22May1979	45.0	70.0	115.0
23May1979	45.0	70.0	115.0
24May1979	45.0	70.0	115.0
25May1979	45.0	70.0	115.0
26May1979	45.0	70.0	115.0
27May1979	45.0	70.0	115.0
28May1979	45.0	70.0	115.0
29May1979	45.0	70.0	115.0
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31May1979	45.0	70.0	115.0
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02Jun1979	50.0	70.0	120.0
03Jun1979	50.0	70.0	120.0
04Jun1979	50.0	70.0	120.0
05Jun1979	50.0	70.0	120.0
06Jun1979	50.0	70.0	120.0
07Jun1979	50.0	70.0	120.0
08Jun1979	50.0	70.0	120.0
09Jun1979	50.0	70.0	120.0
10Jun1979	50.0	70.0	120.0
11Jun1979	50.0	70.0	120.0
12Jun1979	50.0	70.0	120.0
13Jun1979	50.0	70.0	120.0
14Jun1979	50.0	70.0	120.0
15Jun1979	50.0	70.0	120.0
16Jun1979	50.0	70.0	120.0
17Jun1979	50.0	70.0	120.0
18Jun1979	50.0	70.0	120.0
19Jun1979	50.0	70.0	120.0
20Jun1979	50.0	70.0	120.0

21Jun1979	50.0	70.0	120.0
22Jun1979	50.0	70.0	120.0
23Jun1979	50.0	70.0	120.0
24Jun1979	50.0	70.0	120.0
25Jun1979	50.0	70.0	120.0
26Jun1979	50.0	70.0	120.0
27Jun1979	50.0	70.0	120.0
28Jun1979	50.0	70.0	120.0
29Jun1979	50.0	70.0	120.0
30Jun1979	50.0	70.0	120.0
01Jul1979	55.0	70.0	125.0
02Jul1979	55.0	70.0	125.0
03Jul1979	55.0	70.0	125.0
04Jul1979	55.0	70.0	125.0
05Jul1979	55.0	70.0	125.0
06Jul1979	55.0	70.0	125.0
07Jul1979	55.0	70.0	125.0
08Jul1979	55.0	70.0	125.0
09Jul1979	55.0	70.0	125.0
10Jul1979	55.0	70.0	125.0
11Jul1979	55.0	70.0	125.0
12Jul1979	55.0	70.0	125.0
13Jul1979	55.0	70.0	125.0
14Jul1979	55.0	70.0	125.0
15Jul1979	55.0	70.0	125.0
16Jul1979	55.0	70.0	125.0
17Jul1979	55.0	70.0	125.0
18Jul1979	55.0	70.0	125.0
19Jul1979	55.0	70.0	125.0
20Jul1979	55.0	70.0	125.0
21Jul1979	55.0	70.0	125.0
22Jul1979	55.0	70.0	125.0
23Jul1979	55.0	70.0	125.0
24Jul1979	55.0	70.0	125.0
25Jul1979	55.0	70.0	125.0
26Jul1979	55.0	70.0	125.0
27Jul1979	55.0	70.0	125.0
28Jul1979	55.0	70.0	125.0
29Jul1979	55.0	70.0	125.0
30Jul1979	55.0	70.0	125.0
31Jul1979	55.0	70.0	125.0
01Aug1979	70.0	70.0	140.0
02Aug1979	70.0	70.0	140.0
03Aug1979	70.0	70.0	140.0
04Aug1979	70.0	70.0	140.0
05Aug1979	70.0	70.0	140.0
06Aug1979	70.0	70.0	140.0
07Aug1979	70.0	70.0	140.0
08Aug1979	70.0	70.0	140.0
09Aug1979	70.0	70.0	140.0
10Aug1979	70.0	70.0	140.0
11Aug1979	70.0	70.0	140.0
12Aug1979	70.0	70.0	140.0
13Aug1979	70.0	70.0	140.0
14Aug1979	70.0	70.0	140.0
15Aug1979	70.0	70.0	140.0

16Aug1979	70.0	70.0	140.0
17Aug1979	70.0	70.0	140.0
18Aug1979	70.0	70.0	140.0
19Aug1979	70.0	70.0	140.0
20Aug1979	70.0	70.0	140.0
21Aug1979	70.0	70.0	140.0
22Aug1979	70.0	70.0	140.0
23Aug1979	70.0	70.0	140.0
24Aug1979	70.0	70.0	140.0
25Aug1979	70.0	70.0	140.0
26Aug1979	70.0	70.0	140.0
27Aug1979	70.0	70.0	140.0
28Aug1979	70.0	70.0	140.0
29Aug1979	70.0	70.0	140.0
30Aug1979	70.0	70.0	140.0
31Aug1979	70.0	70.0	140.0
01Sep1979	65.0	70.0	135.0
02Sep1979	65.0	70.3	135.3
03Sep1979	65.0	70.7	135.7
04Sep1979	65.0	71.0	136.0
05Sep1979	65.0	71.3	136.3
06Sep1979	65.0	71.7	136.7
07Sep1979	65.0	72.0	137.0
08Sep1979	65.0	72.3	137.3
09Sep1979	65.0	72.7	137.7
10Sep1979	65.0	73.0	138.0
11Sep1979	65.0	73.3	138.3
12Sep1979	65.0	73.7	138.7
13Sep1979	65.0	74.0	139.0
14Sep1979	65.0	74.3	139.3
15Sep1979	65.0	74.7	139.7
16Sep1979	65.0	75.0	140.0
17Sep1979	65.0	75.3	140.3
18Sep1979	65.0	75.7	140.7
19Sep1979	65.0	76.0	141.0
20Sep1979	65.0	76.3	141.3
21Sep1979	65.0	76.7	141.7
22Sep1979	65.0	77.0	142.0
23Sep1979	65.0	77.3	142.3
24Sep1979	65.0	77.7	142.7
25Sep1979	65.0	78.0	143.0
26Sep1979	65.0	78.3	143.3
27Sep1979	65.0	78.7	143.7
28Sep1979	65.0	79.0	144.0
29Sep1979	65.0	79.3	144.3
30Sep1979	65.0	79.7	144.7
01Oct1979	30.0	80.0	110.0
02Oct1979	30.0	80.0	110.0
03Oct1979	30.0	80.0	110.0
04Oct1979	30.0	80.0	110.0
05Oct1979	30.0	80.0	110.0
06Oct1979	30.0	80.0	110.0
07Oct1979	30.0	80.0	110.0
08Oct1979	30.0	80.0	110.0
09Oct1979	30.0	80.0	110.0
10Oct1979	30.0	80.0	110.0

11Oct1979	30.0	80.0	110.0
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13Oct1979	30.0	80.0	110.0
14Oct1979	30.0	80.0	110.0
15Oct1979	30.0	80.0	110.0
16Oct1979	30.0	80.0	110.0
17Oct1979	30.0	80.0	110.0
18Oct1979	30.0	80.0	110.0
19Oct1979	30.0	80.0	110.0
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21Oct1979	30.0	80.0	110.0
22Oct1979	30.0	80.0	110.0
23Oct1979	30.0	80.0	110.0
24Oct1979	30.0	80.0	110.0
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26Oct1979	30.0	80.0	110.0
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28Oct1979	30.0	80.0	110.0
29Oct1979	30.0	80.0	110.0
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31Oct1979	30.0	80.0	110.0
01Nov1979	3.0	80.0	83.0
02Nov1979	3.0	80.0	83.0
03Nov1979	3.0	80.0	83.0
04Nov1979	3.0	80.0	83.0
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07Nov1979	3.0	80.0	83.0
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23Nov1979	3.0	80.0	83.0
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28Nov1979	3.0	80.0	83.0
29Nov1979	3.0	80.0	83.0
30Nov1979	3.0	80.0	83.0
01Dec1979	1.0	80.0	81.0
02Dec1979	1.0	80.0	81.0
03Dec1979	1.0	80.0	81.0
04Dec1979	1.0	80.0	81.0
05Dec1979	1.0	80.0	81.0

06Dec1979	1.0	80.0	81.0
07Dec1979	1.0	80.0	81.0
08Dec1979	1.0	80.0	81.0
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12Dec1979	1.0	80.0	81.0
13Dec1979	1.0	80.0	81.0
14Dec1979	1.0	80.0	81.0
15Dec1979	1.0	80.0	81.0
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29Dec1979	1.0	80.0	81.0
30Dec1979	1.0	80.0	81.0
31Dec1979	1.0	80.0	81.0
01Jan1980	10.0	80.0	90.0
02Jan1980	10.0	80.6	90.6
03Jan1980	10.0	81.3	91.3
04Jan1980	10.0	81.9	91.9
05Jan1980	10.0	82.6	92.6
06Jan1980	10.0	83.2	93.2
07Jan1980	10.0	83.9	93.9
08Jan1980	10.0	84.5	94.5
09Jan1980	39.0	85.2	124.2
10Jan1980	186.0	101.6	287.6
11Jan1980	916.0	500.5	1416.5
12Jan1980	2410.0	1316.8	3726.8
13Jan1980	1860.0	1016.3	2876.3
14Jan1980	2280.0	1245.8	3525.8
15Jan1980	2070.0	1131.1	3201.1
16Jan1980	983.0	537.1	1520.1
17Jan1980	558.0	304.9	862.9
18Jan1980	1800.0	983.5	2783.5
19Jan1980	612.0	334.4	946.4
20Jan1980	254.0	138.8	392.8
21Jan1980	170.0	92.9	262.9
22Jan1980	134.0	93.5	227.5
23Jan1980	111.0	94.2	205.2
24Jan1980	97.0	94.8	191.8
25Jan1980	85.0	95.5	180.5
26Jan1980	76.0	96.1	172.1
27Jan1980	70.0	96.8	166.8
28Jan1980	65.0	97.4	162.4
29Jan1980	62.0	98.1	160.1
30Jan1980	59.0	98.7	157.7

31Jan1980	59.0	99.4	158.4
01Feb1980	53.0	100.0	153.0
02Feb1980	47.0	100.0	147.0
03Feb1980	43.0	100.0	143.0
04Feb1980	41.0	100.0	141.0
05Feb1980	40.0	100.0	140.0
06Feb1980	40.0	100.0	140.0
07Feb1980	41.0	100.0	141.0
08Feb1980	42.0	100.0	142.0
09Feb1980	42.0	100.0	142.0
10Feb1980	43.0	100.0	143.0
11Feb1980	50.0	100.0	150.0
12Feb1980	55.0	100.0	155.0
13Feb1980	56.0	100.0	156.0
14Feb1980	60.0	100.0	160.0
15Feb1980	63.0	100.0	163.0
16Feb1980	335.0	183.0	518.0
17Feb1980	1920.0	1049.1	2969.1
18Feb1980	1000.0	546.4	1546.4
19Feb1980	648.0	354.1	1002.1
20Feb1980	2650.0	1448.0	4098.0
21Feb1980	2060.0	1125.6	3185.6
22Feb1980	1410.0	770.4	2180.4
23Feb1980	528.0	288.5	816.5
24Feb1980	316.0	172.7	488.7
25Feb1980	216.0	118.0	334.0
26Feb1980	162.0	100.0	262.0
27Feb1980	138.0	100.0	238.0
28Feb1980	117.0	100.0	217.0
29Feb1980	113.0	100.0	213.0
01Mar1980	96.0	100.0	196.0
02Mar1980	79.0	100.0	179.0
03Mar1980	71.0	100.0	171.0
04Mar1980	71.0	100.0	171.0
05Mar1980	114.0	100.0	214.0
06Mar1980	633.0	345.9	978.9
07Mar1980	474.0	259.0	733.0
08Mar1980	172.0	100.0	272.0
09Mar1980	107.0	100.0	207.0
10Mar1980	84.0	100.0	184.0
11Mar1980	71.0	100.0	171.0
12Mar1980	64.0	100.0	164.0
13Mar1980	59.0	100.0	159.0
14Mar1980	55.0	100.0	155.0
15Mar1980	51.0	100.0	151.0
16Mar1980	49.0	100.0	149.0
17Mar1980	48.0	100.0	148.0
18Mar1980	46.0	100.0	146.0
19Mar1980	45.0	100.0	145.0
20Mar1980	45.0	100.0	145.0
21Mar1980	30.0	100.0	130.0
22Mar1980	30.0	100.0	130.0
23Mar1980	30.0	100.0	130.0
24Mar1980	30.0	100.0	130.0
25Mar1980	30.0	100.0	130.0
26Mar1980	30.0	100.0	130.0

27Mar1980	30.0	100.0	130.0
28Mar1980	30.0	100.0	130.0
29Mar1980	30.0	100.0	130.0
30Mar1980	30.0	100.0	130.0
31Mar1980	30.0	100.0	130.0
01Apr1980	40.0	100.0	140.0
02Apr1980	40.0	99.0	139.0
03Apr1980	40.0	98.0	138.0
04Apr1980	40.0	97.0	137.0
05Apr1980	40.0	96.0	136.0
06Apr1980	40.0	95.0	135.0
07Apr1980	40.0	94.0	134.0
08Apr1980	40.0	93.0	133.0
09Apr1980	40.0	92.0	132.0
10Apr1980	40.0	91.0	131.0
11Apr1980	40.0	90.0	130.0
12Apr1980	40.0	89.0	129.0
13Apr1980	40.0	88.0	128.0
14Apr1980	40.0	87.0	127.0
15Apr1980	40.0	86.0	126.0
16Apr1980	40.0	85.0	125.0
17Apr1980	40.0	84.0	124.0
18Apr1980	40.0	83.0	123.0
19Apr1980	40.0	82.0	122.0
20Apr1980	40.0	81.0	121.0
21Apr1980	40.0	80.0	120.0
22Apr1980	40.0	79.0	119.0
23Apr1980	40.0	78.0	118.0
24Apr1980	40.0	77.0	117.0
25Apr1980	40.0	76.0	116.0
26Apr1980	40.0	75.0	115.0
27Apr1980	40.0	74.0	114.0
28Apr1980	40.0	73.0	113.0
29Apr1980	40.0	72.0	112.0
30Apr1980	40.0	71.0	111.0
01May1980	45.0	70.0	115.0
02May1980	45.0	70.0	115.0
03May1980	45.0	70.0	115.0
04May1980	45.0	70.0	115.0
05May1980	45.0	70.0	115.0
06May1980	45.0	70.0	115.0
07May1980	45.0	70.0	115.0
08May1980	45.0	70.0	115.0
09May1980	45.0	70.0	115.0
10May1980	45.0	70.0	115.0
11May1980	45.0	70.0	115.0
12May1980	45.0	70.0	115.0
13May1980	45.0	70.0	115.0
14May1980	45.0	70.0	115.0
15May1980	45.0	70.0	115.0
16May1980	45.0	70.0	115.0
17May1980	45.0	70.0	115.0
18May1980	45.0	70.0	115.0
19May1980	45.0	70.0	115.0
20May1980	45.0	70.0	115.0
21May1980	45.0	70.0	115.0

22May1980	45.0	70.0	115.0
23May1980	45.0	70.0	115.0
24May1980	45.0	70.0	115.0
25May1980	45.0	70.0	115.0
26May1980	45.0	70.0	115.0
27May1980	45.0	70.0	115.0
28May1980	45.0	70.0	115.0
29May1980	45.0	70.0	115.0
30May1980	45.0	70.0	115.0
31May1980	45.0	70.0	115.0
01Jun1980	50.0	70.0	120.0
02Jun1980	50.0	70.0	120.0
03Jun1980	50.0	70.0	120.0
04Jun1980	50.0	70.0	120.0
05Jun1980	50.0	70.0	120.0
06Jun1980	50.0	70.0	120.0
07Jun1980	50.0	70.0	120.0
08Jun1980	50.0	70.0	120.0
09Jun1980	50.0	70.0	120.0
10Jun1980	50.0	70.0	120.0
11Jun1980	50.0	70.0	120.0
12Jun1980	50.0	70.0	120.0
13Jun1980	50.0	70.0	120.0
14Jun1980	50.0	70.0	120.0
15Jun1980	50.0	70.0	120.0
16Jun1980	50.0	70.0	120.0
17Jun1980	50.0	70.0	120.0
18Jun1980	50.0	70.0	120.0
19Jun1980	50.0	70.0	120.0
20Jun1980	50.0	70.0	120.0
21Jun1980	50.0	70.0	120.0
22Jun1980	50.0	70.0	120.0
23Jun1980	50.0	70.0	120.0
24Jun1980	50.0	70.0	120.0
25Jun1980	50.0	70.0	120.0
26Jun1980	50.0	70.0	120.0
27Jun1980	50.0	70.0	120.0
28Jun1980	50.0	70.0	120.0
29Jun1980	50.0	70.0	120.0
30Jun1980	50.0	70.0	120.0
01Jul1980	55.0	70.0	125.0
02Jul1980	55.0	70.0	125.0
03Jul1980	55.0	70.0	125.0
04Jul1980	55.0	70.0	125.0
05Jul1980	55.0	70.0	125.0
06Jul1980	55.0	70.0	125.0
07Jul1980	55.0	70.0	125.0
08Jul1980	55.0	70.0	125.0
09Jul1980	55.0	70.0	125.0
10Jul1980	55.0	70.0	125.0
11Jul1980	55.0	70.0	125.0
12Jul1980	55.0	70.0	125.0
13Jul1980	55.0	70.0	125.0
14Jul1980	55.0	70.0	125.0
15Jul1980	55.0	70.0	125.0
16Jul1980	55.0	70.0	125.0

17Jul1980	55.0	70.0	125.0
18Jul1980	55.0	70.0	125.0
19Jul1980	55.0	70.0	125.0
20Jul1980	55.0	70.0	125.0
21Jul1980	55.0	70.0	125.0
22Jul1980	55.0	70.0	125.0
23Jul1980	55.0	70.0	125.0
24Jul1980	55.0	70.0	125.0
25Jul1980	55.0	70.0	125.0
26Jul1980	55.0	70.0	125.0
27Jul1980	55.0	70.0	125.0
28Jul1980	55.0	70.0	125.0
29Jul1980	55.0	70.0	125.0
30Jul1980	55.0	70.0	125.0
31Jul1980	55.0	70.0	125.0
01Aug1980	70.0	70.0	140.0
02Aug1980	70.0	70.0	140.0
03Aug1980	70.0	70.0	140.0
04Aug1980	70.0	70.0	140.0
05Aug1980	70.0	70.0	140.0
06Aug1980	70.0	70.0	140.0
07Aug1980	70.0	70.0	140.0
08Aug1980	70.0	70.0	140.0
09Aug1980	70.0	70.0	140.0
10Aug1980	70.0	70.0	140.0
11Aug1980	70.0	70.0	140.0
12Aug1980	70.0	70.0	140.0
13Aug1980	70.0	70.0	140.0
14Aug1980	70.0	70.0	140.0
15Aug1980	70.0	70.0	140.0
16Aug1980	70.0	70.0	140.0
17Aug1980	70.0	70.0	140.0
18Aug1980	70.0	70.0	140.0
19Aug1980	70.0	70.0	140.0
20Aug1980	70.0	70.0	140.0
21Aug1980	70.0	70.0	140.0
22Aug1980	70.0	70.0	140.0
23Aug1980	70.0	70.0	140.0
24Aug1980	70.0	70.0	140.0
25Aug1980	70.0	70.0	140.0
26Aug1980	70.0	70.0	140.0
27Aug1980	70.0	70.0	140.0
28Aug1980	70.0	70.0	140.0
29Aug1980	70.0	70.0	140.0
30Aug1980	70.0	70.0	140.0
31Aug1980	70.0	70.0	140.0
01Sep1980	65.0	70.0	135.0
02Sep1980	65.0	70.3	135.3
03Sep1980	65.0	70.7	135.7
04Sep1980	65.0	71.0	136.0
05Sep1980	65.0	71.3	136.3
06Sep1980	65.0	71.7	136.7
07Sep1980	65.0	72.0	137.0
08Sep1980	65.0	72.3	137.3
09Sep1980	65.0	72.7	137.7
10Sep1980	65.0	73.0	138.0

11Sep1980	65.0	73.3	138.3
12Sep1980	65.0	73.7	138.7
13Sep1980	65.0	74.0	139.0
14Sep1980	65.0	74.3	139.3
15Sep1980	65.0	74.7	139.7
16Sep1980	65.0	75.0	140.0
17Sep1980	65.0	75.3	140.3
18Sep1980	65.0	75.7	140.7
19Sep1980	65.0	76.0	141.0
20Sep1980	65.0	76.3	141.3
21Sep1980	65.0	76.7	141.7
22Sep1980	65.0	77.0	142.0
23Sep1980	65.0	77.3	142.3
24Sep1980	65.0	77.7	142.7
25Sep1980	65.0	78.0	143.0
26Sep1980	65.0	78.3	143.3
27Sep1980	65.0	78.7	143.7
28Sep1980	65.0	79.0	144.0
29Sep1980	65.0	79.3	144.3
30Sep1980	65.0	79.7	144.7
01Oct1980	30.0	80.0	110.0
02Oct1980	30.0	80.0	110.0
03Oct1980	30.0	80.0	110.0
04Oct1980	30.0	80.0	110.0
05Oct1980	30.0	80.0	110.0
06Oct1980	30.0	80.0	110.0
07Oct1980	30.0	80.0	110.0
08Oct1980	30.0	80.0	110.0
09Oct1980	30.0	80.0	110.0
10Oct1980	30.0	80.0	110.0
11Oct1980	30.0	80.0	110.0
12Oct1980	30.0	80.0	110.0
13Oct1980	30.0	80.0	110.0
14Oct1980	30.0	80.0	110.0
15Oct1980	30.0	80.0	110.0
16Oct1980	30.0	80.0	110.0
17Oct1980	30.0	80.0	110.0
18Oct1980	30.0	80.0	110.0
19Oct1980	30.0	80.0	110.0
20Oct1980	30.0	80.0	110.0
21Oct1980	30.0	80.0	110.0
22Oct1980	30.0	80.0	110.0
23Oct1980	30.0	80.0	110.0
24Oct1980	30.0	80.0	110.0
25Oct1980	30.0	80.0	110.0
26Oct1980	30.0	80.0	110.0
27Oct1980	30.0	80.0	110.0
28Oct1980	30.0	80.0	110.0
29Oct1980	30.0	80.0	110.0
30Oct1980	30.0	80.0	110.0
31Oct1980	30.0	80.0	110.0
01Nov1980	3.0	80.0	83.0
02Nov1980	3.0	80.0	83.0
03Nov1980	3.0	80.0	83.0
04Nov1980	3.0	80.0	83.0
05Nov1980	3.0	80.0	83.0

06Nov1980	3.0	80.0	83.0
07Nov1980	3.0	80.0	83.0
08Nov1980	3.0	80.0	83.0
09Nov1980	3.0	80.0	83.0
10Nov1980	3.0	80.0	83.0
11Nov1980	3.0	80.0	83.0
12Nov1980	3.0	80.0	83.0
13Nov1980	3.0	80.0	83.0
14Nov1980	3.0	80.0	83.0
15Nov1980	3.0	80.0	83.0
16Nov1980	3.0	80.0	83.0
17Nov1980	3.0	80.0	83.0
18Nov1980	3.0	80.0	83.0
19Nov1980	3.0	80.0	83.0
20Nov1980	3.0	80.0	83.0
21Nov1980	3.0	80.0	83.0
22Nov1980	3.0	80.0	83.0
23Nov1980	3.0	80.0	83.0
24Nov1980	3.0	80.0	83.0
25Nov1980	3.0	80.0	83.0
26Nov1980	3.0	80.0	83.0
27Nov1980	3.0	80.0	83.0
28Nov1980	3.0	80.0	83.0
29Nov1980	3.0	80.0	83.0
30Nov1980	3.0	80.0	83.0
01Dec1980	1.0	80.0	81.0
02Dec1980	1.0	80.0	81.0
03Dec1980	1.0	80.0	81.0
04Dec1980	1.0	80.0	81.0
05Dec1980	1.0	80.0	81.0
06Dec1980	1.0	80.0	81.0
07Dec1980	1.0	80.0	81.0
08Dec1980	1.0	80.0	81.0
09Dec1980	1.0	80.0	81.0
10Dec1980	1.0	80.0	81.0
11Dec1980	1.0	80.0	81.0
12Dec1980	1.0	80.0	81.0
13Dec1980	1.0	80.0	81.0
14Dec1980	1.0	80.0	81.0
15Dec1980	1.0	80.0	81.0
16Dec1980	1.0	80.0	81.0
17Dec1980	1.0	80.0	81.0
18Dec1980	1.0	80.0	81.0
19Dec1980	1.0	80.0	81.0
20Dec1980	1.0	80.0	81.0
21Dec1980	1.0	80.0	81.0
22Dec1980	1.0	80.0	81.0
23Dec1980	1.0	80.0	81.0
24Dec1980	1.0	80.0	81.0
25Dec1980	1.0	80.0	81.0
26Dec1980	1.0	80.0	81.0
27Dec1980	1.0	80.0	81.0
28Dec1980	1.0	80.0	81.0
29Dec1980	1.0	80.0	81.0
30Dec1980	1.0	80.0	81.0
31Dec1980	1.0	80.0	81.0

01Jan1981	10.0	80.0	90.0
02Jan1981	10.0	80.6	90.6
03Jan1981	10.0	81.3	91.3
04Jan1981	10.0	81.9	91.9
05Jan1981	10.0	82.6	92.6
06Jan1981	10.0	83.2	93.2
07Jan1981	10.0	83.9	93.9
08Jan1981	10.0	84.5	94.5
09Jan1981	10.0	85.2	95.2
10Jan1981	10.0	85.8	95.8
11Jan1981	10.0	86.5	96.5
12Jan1981	10.0	87.1	97.1
13Jan1981	10.0	87.7	97.7
14Jan1981	10.0	88.4	98.4
15Jan1981	10.0	89.0	99.0
16Jan1981	10.0	89.7	99.7
17Jan1981	10.0	90.3	100.3
18Jan1981	10.0	91.0	101.0
19Jan1981	10.0	91.6	101.6
20Jan1981	10.0	92.3	102.3
21Jan1981	10.0	92.9	102.9
22Jan1981	10.0	93.5	103.5
23Jan1981	39.0	94.2	133.2
24Jan1981	152.0	94.8	246.8
25Jan1981	98.0	95.5	193.5
26Jan1981	40.0	96.1	136.1
27Jan1981	62.0	96.8	158.8
28Jan1981	665.0	363.4	1028.4
29Jan1981	988.0	539.8	1527.8
30Jan1981	1430.0	781.4	2211.4
31Jan1981	486.0	265.6	751.6
01Feb1981	191.0	104.4	295.4
02Feb1981	114.0	100.0	214.0
03Feb1981	83.0	100.0	183.0
04Feb1981	64.0	100.0	164.0
05Feb1981	52.0	100.0	152.0
06Feb1981	43.0	100.0	143.0
07Feb1981	38.0	100.0	138.0
08Feb1981	35.0	100.0	135.0
09Feb1981	34.0	100.0	134.0
10Feb1981	31.0	100.0	131.0
11Feb1981	30.0	100.0	130.0
12Feb1981	32.0	100.0	132.0
13Feb1981	32.0	100.0	132.0
14Feb1981	30.0	100.0	130.0
15Feb1981	30.0	100.0	130.0
16Feb1981	30.0	100.0	130.0
17Feb1981	30.0	100.0	130.0
18Feb1981	30.0	100.0	130.0
19Feb1981	30.0	100.0	130.0
20Feb1981	30.0	100.0	130.0
21Feb1981	30.0	100.0	130.0
22Feb1981	30.0	100.0	130.0
23Feb1981	30.0	100.0	130.0
24Feb1981	30.0	100.0	130.0
25Feb1981	30.0	100.0	130.0

26Feb1981	30.0	100.0	130.0
27Feb1981	30.0	100.0	130.0
28Feb1981	30.0	100.0	130.0
01Mar1981	30.0	100.0	130.0
02Mar1981	30.0	100.0	130.0
03Mar1981	30.0	100.0	130.0
04Mar1981	30.0	100.0	130.0
05Mar1981	514.0	280.9	794.9
06Mar1981	581.0	317.5	898.5
07Mar1981	170.0	100.0	270.0
08Mar1981	96.0	100.0	196.0
09Mar1981	72.0	100.0	172.0
10Mar1981	65.0	100.0	165.0
11Mar1981	58.0	100.0	158.0
12Mar1981	47.0	100.0	147.0
13Mar1981	42.0	100.0	142.0
14Mar1981	37.0	100.0	137.0
15Mar1981	35.0	100.0	135.0
16Mar1981	38.0	100.0	138.0
17Mar1981	99.0	100.0	199.0
18Mar1981	79.0	100.0	179.0
19Mar1981	125.0	100.0	225.0
20Mar1981	1780.0	972.6	2752.6
21Mar1981	638.0	348.6	986.6
22Mar1981	469.0	256.3	725.3
23Mar1981	251.0	137.1	388.1
24Mar1981	158.0	100.0	258.0
25Mar1981	113.0	100.0	213.0
26Mar1981	978.0	534.4	1512.4
27Mar1981	447.0	244.2	691.2
28Mar1981	186.0	101.6	287.6
29Mar1981	124.0	100.0	224.0
30Mar1981	88.0	100.0	188.0
31Mar1981	72.0	100.0	172.0
01Apr1981	60.0	100.0	160.0
02Apr1981	52.0	99.0	151.0
03Apr1981	47.0	98.0	145.0
04Apr1981	44.0	97.0	141.0
05Apr1981	40.0	96.0	136.0
06Apr1981	40.0	95.0	135.0
07Apr1981	40.0	94.0	134.0
08Apr1981	40.0	93.0	133.0
09Apr1981	40.0	92.0	132.0
10Apr1981	40.0	91.0	131.0
11Apr1981	40.0	90.0	130.0
12Apr1981	40.0	89.0	129.0
13Apr1981	40.0	88.0	128.0
14Apr1981	40.0	87.0	127.0
15Apr1981	40.0	86.0	126.0
16Apr1981	40.0	85.0	125.0
17Apr1981	40.0	84.0	124.0
18Apr1981	40.0	83.0	123.0
19Apr1981	40.0	82.0	122.0
20Apr1981	40.0	81.0	121.0
21Apr1981	40.0	80.0	120.0
22Apr1981	40.0	79.0	119.0

23Apr1981	40.0	78.0	118.0
24Apr1981	40.0	77.0	117.0
25Apr1981	40.0	76.0	116.0
26Apr1981	40.0	75.0	115.0
27Apr1981	40.0	74.0	114.0
28Apr1981	40.0	73.0	113.0
29Apr1981	40.0	72.0	112.0
30Apr1981	40.0	71.0	111.0
01May1981	45.0	70.0	115.0
02May1981	45.0	70.0	115.0
03May1981	45.0	70.0	115.0
04May1981	45.0	70.0	115.0
05May1981	45.0	70.0	115.0
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21May1981	45.0	70.0	115.0
22May1981	45.0	70.0	115.0
23May1981	45.0	70.0	115.0
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25May1981	45.0	70.0	115.0
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27May1981	45.0	70.0	115.0
28May1981	45.0	70.0	115.0
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16Jun1981	50.0	70.0	120.0
17Jun1981	50.0	70.0	120.0

18Jun1981	50.0	70.0	120.0
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20Jun1981	50.0	70.0	120.0
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22Jun1981	50.0	70.0	120.0
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07Jul1981	55.0	70.0	125.0
08Jul1981	55.0	70.0	125.0
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11Jul1981	55.0	70.0	125.0
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14Jul1981	55.0	70.0	125.0
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16Jul1981	55.0	70.0	125.0
17Jul1981	55.0	70.0	125.0
18Jul1981	55.0	70.0	125.0
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21Jul1981	55.0	70.0	125.0
22Jul1981	55.0	70.0	125.0
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24Jul1981	55.0	70.0	125.0
25Jul1981	55.0	70.0	125.0
26Jul1981	55.0	70.0	125.0
27Jul1981	55.0	70.0	125.0
28Jul1981	55.0	70.0	125.0
29Jul1981	55.0	70.0	125.0
30Jul1981	55.0	70.0	125.0
31Jul1981	55.0	70.0	125.0
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11Aug1981	70.0	70.0	140.0
12Aug1981	70.0	70.0	140.0

13Aug1981	70.0	70.0	140.0
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15Aug1981	70.0	70.0	140.0
16Aug1981	70.0	70.0	140.0
17Aug1981	70.0	70.0	140.0
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26Aug1981	70.0	70.0	140.0
27Aug1981	70.0	70.0	140.0
28Aug1981	70.0	70.0	140.0
29Aug1981	70.0	70.0	140.0
30Aug1981	70.0	70.0	140.0
31Aug1981	70.0	70.0	140.0
01Sep1981	65.0	70.0	135.0
02Sep1981	65.0	70.3	135.3
03Sep1981	65.0	70.7	135.7
04Sep1981	65.0	71.0	136.0
05Sep1981	65.0	71.3	136.3
06Sep1981	65.0	71.7	136.7
07Sep1981	65.0	72.0	137.0
08Sep1981	65.0	72.3	137.3
09Sep1981	65.0	72.7	137.7
10Sep1981	65.0	73.0	138.0
11Sep1981	65.0	73.3	138.3
12Sep1981	65.0	73.7	138.7
13Sep1981	65.0	74.0	139.0
14Sep1981	65.0	74.3	139.3
15Sep1981	65.0	74.7	139.7
16Sep1981	65.0	75.0	140.0
17Sep1981	65.0	75.3	140.3
18Sep1981	65.0	75.7	140.7
19Sep1981	65.0	76.0	141.0
20Sep1981	65.0	76.3	141.3
21Sep1981	65.0	76.7	141.7
22Sep1981	65.0	77.0	142.0
23Sep1981	65.0	77.3	142.3
24Sep1981	65.0	77.7	142.7
25Sep1981	65.0	78.0	143.0
26Sep1981	65.0	78.3	143.3
27Sep1981	65.0	78.7	143.7
28Sep1981	65.0	79.0	144.0
29Sep1981	65.0	79.3	144.3
30Sep1981	65.0	79.7	144.7
01Oct1981	30.0	80.0	110.0
02Oct1981	30.0	80.0	110.0
03Oct1981	30.0	80.0	110.0
04Oct1981	30.0	80.0	110.0
05Oct1981	30.0	80.0	110.0
06Oct1981	30.0	80.0	110.0
07Oct1981	30.0	80.0	110.0

08Oct1981	30.0	80.0	110.0
09Oct1981	30.0	80.0	110.0
10Oct1981	30.0	80.0	110.0
11Oct1981	30.0	80.0	110.0
12Oct1981	30.0	80.0	110.0
13Oct1981	30.0	80.0	110.0
14Oct1981	30.0	80.0	110.0
15Oct1981	30.0	80.0	110.0
16Oct1981	30.0	80.0	110.0
17Oct1981	30.0	80.0	110.0
18Oct1981	30.0	80.0	110.0
19Oct1981	30.0	80.0	110.0
20Oct1981	30.0	80.0	110.0
21Oct1981	30.0	80.0	110.0
22Oct1981	30.0	80.0	110.0
23Oct1981	30.0	80.0	110.0
24Oct1981	30.0	80.0	110.0
25Oct1981	30.0	80.0	110.0
26Oct1981	30.0	80.0	110.0
27Oct1981	30.0	80.0	110.0
28Oct1981	30.0	80.0	110.0
29Oct1981	30.0	80.0	110.0
30Oct1981	30.0	80.0	110.0
31Oct1981	30.0	80.0	110.0
01Nov1981	3.0	80.0	83.0
02Nov1981	3.0	80.0	83.0
03Nov1981	3.0	80.0	83.0
04Nov1981	3.0	80.0	83.0
05Nov1981	3.0	80.0	83.0
06Nov1981	3.0	80.0	83.0
07Nov1981	3.0	80.0	83.0
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10Nov1981	3.0	80.0	83.0
11Nov1981	3.0	80.0	83.0
12Nov1981	3.0	80.0	83.0
13Nov1981	3.0	80.0	83.0
14Nov1981	3.0	80.0	83.0
15Nov1981	3.0	80.0	83.0
16Nov1981	3.0	80.0	83.0
17Nov1981	3.0	80.0	83.0
18Nov1981	3.0	80.0	83.0
19Nov1981	3.0	80.0	83.0
20Nov1981	3.0	80.0	83.0
21Nov1981	3.0	80.0	83.0
22Nov1981	3.0	80.0	83.0
23Nov1981	3.0	80.0	83.0
24Nov1981	3.0	80.0	83.0
25Nov1981	3.0	80.0	83.0
26Nov1981	3.0	80.0	83.0
27Nov1981	3.0	80.0	83.0
28Nov1981	3.0	80.0	83.0
29Nov1981	3.0	80.0	83.0
30Nov1981	3.0	80.0	83.0
01Dec1981	1.0	80.0	81.0
02Dec1981	1.0	80.0	81.0

03Dec1981	1.0	80.0	81.0
04Dec1981	1.0	80.0	81.0
05Dec1981	1.0	80.0	81.0
06Dec1981	1.0	80.0	81.0
07Dec1981	1.0	80.0	81.0
08Dec1981	1.0	80.0	81.0
09Dec1981	1.0	80.0	81.0
10Dec1981	1.0	80.0	81.0
11Dec1981	1.0	80.0	81.0
12Dec1981	1.0	80.0	81.0
13Dec1981	1.0	80.0	81.0
14Dec1981	1.0	80.0	81.0
15Dec1981	1.0	80.0	81.0
16Dec1981	1.0	80.0	81.0
17Dec1981	1.0	80.0	81.0
18Dec1981	1.0	80.0	81.0
19Dec1981	1.0	80.0	81.0
20Dec1981	16.0	80.0	96.0
21Dec1981	180.0	98.4	278.4
22Dec1981	317.0	173.2	490.2
23Dec1981	149.0	81.4	230.4
24Dec1981	42.0	80.0	122.0
25Dec1981	34.0	80.0	114.0
26Dec1981	30.0	80.0	110.0
27Dec1981	23.0	80.0	103.0
28Dec1981	17.0	80.0	97.0
29Dec1981	17.0	80.0	97.0
30Dec1981	718.0	392.3	1110.3
31Dec1981	633.0	345.9	978.9
01Jan1982	376.0	205.4	581.4
02Jan1982	589.0	321.8	910.8
03Jan1982	451.0	246.4	697.4
04Jan1982	293.0	160.1	453.1
05Jan1982	2370.0	1295.0	3665.0
06Jan1982	1360.0	743.1	2103.1
07Jan1982	361.0	197.3	558.3
08Jan1982	230.0	125.7	355.7
09Jan1982	174.0	95.1	269.1
10Jan1982	131.0	85.8	216.8
11Jan1982	112.0	86.5	198.5
12Jan1982	92.0	87.1	179.1
13Jan1982	70.0	87.7	157.7
14Jan1982	48.0	88.4	136.4
15Jan1982	45.0	89.0	134.0
16Jan1982	53.0	89.7	142.7
17Jan1982	57.0	90.3	147.3
18Jan1982	57.0	91.0	148.0
19Jan1982	56.0	91.6	147.6
20Jan1982	60.0	92.3	152.3
21Jan1982	182.0	99.4	281.4
22Jan1982	232.0	126.8	358.8
23Jan1982	148.0	94.2	242.2
24Jan1982	86.0	94.8	180.8
25Jan1982	64.0	95.5	159.5
26Jan1982	49.0	96.1	145.1
27Jan1982	64.0	96.8	160.8

28Jan1982	188.0	102.7	290.7
29Jan1982	161.0	98.1	259.1
30Jan1982	185.0	101.1	286.1
31Jan1982	106.0	99.4	205.4
01Feb1982	72.0	100.0	172.0
02Feb1982	52.0	100.0	152.0
03Feb1982	44.0	100.0	144.0
04Feb1982	43.0	100.0	143.0
05Feb1982	40.0	100.0	140.0
06Feb1982	39.0	100.0	139.0
07Feb1982	38.0	100.0	138.0
08Feb1982	36.0	100.0	136.0
09Feb1982	33.0	100.0	133.0
10Feb1982	32.0	100.0	132.0
11Feb1982	31.0	100.0	131.0
12Feb1982	30.0	100.0	130.0
13Feb1982	31.0	100.0	131.0
14Feb1982	38.0	100.0	138.0
15Feb1982	382.0	208.7	590.7
16Feb1982	4370.0	2387.8	6757.8
17Feb1982	1970.0	1076.4	3046.4
18Feb1982	456.0	249.2	705.2
19Feb1982	300.0	163.9	463.9
20Feb1982	239.0	130.6	369.6
21Feb1982	208.0	113.7	321.7
22Feb1982	184.0	100.5	284.5
23Feb1982	147.0	100.0	247.0
24Feb1982	111.0	100.0	211.0
25Feb1982	87.0	100.0	187.0
26Feb1982	74.0	100.0	174.0
27Feb1982	59.0	100.0	159.0
28Feb1982	47.0	100.0	147.0
01Mar1982	43.0	100.0	143.0
02Mar1982	41.0	100.0	141.0
03Mar1982	303.0	165.6	468.6
04Mar1982	253.0	138.2	391.2
05Mar1982	123.0	100.0	223.0
06Mar1982	63.0	100.0	163.0
07Mar1982	43.0	100.0	143.0
08Mar1982	38.0	100.0	138.0
09Mar1982	35.0	100.0	135.0
10Mar1982	34.0	100.0	134.0
11Mar1982	33.0	100.0	133.0
12Mar1982	140.0	100.0	240.0
13Mar1982	108.0	100.0	208.0
14Mar1982	46.0	100.0	146.0
15Mar1982	392.0	214.2	606.2
16Mar1982	298.0	162.8	460.8
17Mar1982	1700.0	928.9	2628.9
18Mar1982	860.0	469.9	1329.9
19Mar1982	438.0	239.3	677.3
20Mar1982	403.0	220.2	623.2
21Mar1982	211.0	115.3	326.3
22Mar1982	109.0	100.0	209.0
23Mar1982	51.0	100.0	151.0
24Mar1982	38.0	100.0	138.0

25Mar1982	50.0	100.0	150.0
26Mar1982	35.0	100.0	135.0
27Mar1982	35.0	100.0	135.0
28Mar1982	37.0	100.0	137.0
29Mar1982	437.0	238.8	675.8
30Mar1982	1530.0	836.0	2366.0
31Mar1982	804.0	439.3	1243.3
01Apr1982	4600.0	2513.5	7113.5
02Apr1982	1550.0	846.9	2396.9
03Apr1982	484.0	264.5	748.5
04Apr1982	266.0	145.3	411.3
05Apr1982	226.0	123.5	349.5
06Apr1982	188.0	102.7	290.7
07Apr1982	162.0	94.0	256.0
08Apr1982	155.0	93.0	248.0
09Apr1982	143.0	92.0	235.0
10Apr1982	142.0	91.0	233.0
11Apr1982	823.0	449.7	1272.7
12Apr1982	778.0	425.1	1203.1
13Apr1982	258.0	141.0	399.0
14Apr1982	189.0	103.3	292.3
15Apr1982	209.0	114.2	323.2
16Apr1982	198.0	108.2	306.2
17Apr1982	188.0	102.7	290.7
18Apr1982	179.0	97.8	276.8
19Apr1982	173.0	94.5	267.5
20Apr1982	149.0	81.4	230.4
21Apr1982	141.0	80.0	221.0
22Apr1982	146.0	79.8	225.8
23Apr1982	150.0	82.0	232.0
24Apr1982	120.0	77.0	197.0
25Apr1982	101.0	76.0	177.0
26Apr1982	103.0	75.0	178.0
27Apr1982	93.0	74.0	167.0
28Apr1982	40.0	73.0	113.0
29Apr1982	40.0	72.0	112.0
30Apr1982	40.0	71.0	111.0
01May1982	45.0	70.0	115.0
02May1982	45.0	70.0	115.0
03May1982	45.0	70.0	115.0
04May1982	45.0	70.0	115.0
05May1982	45.0	70.0	115.0
06May1982	45.0	70.0	115.0
07May1982	45.0	70.0	115.0
08May1982	45.0	70.0	115.0
09May1982	45.0	70.0	115.0
10May1982	45.0	70.0	115.0
11May1982	45.0	70.0	115.0
12May1982	45.0	70.0	115.0
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16May1982	45.0	70.0	115.0
17May1982	45.0	70.0	115.0
18May1982	45.0	70.0	115.0
19May1982	45.0	70.0	115.0

20May1982	45.0	70.0	115.0
21May1982	45.0	70.0	115.0
22May1982	45.0	70.0	115.0
23May1982	45.0	70.0	115.0
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25May1982	45.0	70.0	115.0
26May1982	45.0	70.0	115.0
27May1982	45.0	70.0	115.0
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31May1982	45.0	70.0	115.0
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02Jun1982	50.0	70.0	120.0
03Jun1982	50.0	70.0	120.0
04Jun1982	50.0	70.0	120.0
05Jun1982	50.0	70.0	120.0
06Jun1982	50.0	70.0	120.0
07Jun1982	50.0	70.0	120.0
08Jun1982	50.0	70.0	120.0
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11Jun1982	50.0	70.0	120.0
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13Jun1982	50.0	70.0	120.0
14Jun1982	50.0	70.0	120.0
15Jun1982	50.0	70.0	120.0
16Jun1982	50.0	70.0	120.0
17Jun1982	50.0	70.0	120.0
18Jun1982	50.0	70.0	120.0
19Jun1982	50.0	70.0	120.0
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21Jun1982	50.0	70.0	120.0
22Jun1982	50.0	70.0	120.0
23Jun1982	50.0	70.0	120.0
24Jun1982	50.0	70.0	120.0
25Jun1982	50.0	70.0	120.0
26Jun1982	50.0	70.0	120.0
27Jun1982	50.0	70.0	120.0
28Jun1982	50.0	70.0	120.0
29Jun1982	50.0	70.0	120.0
30Jun1982	50.0	70.0	120.0
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02Jul1982	55.0	70.0	125.0
03Jul1982	55.0	70.0	125.0
04Jul1982	55.0	70.0	125.0
05Jul1982	55.0	70.0	125.0
06Jul1982	55.0	70.0	125.0
07Jul1982	55.0	70.0	125.0
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13Jul1982	55.0	70.0	125.0
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15Jul1982	55.0	70.0	125.0
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19Jul1982	55.0	70.0	125.0
20Jul1982	55.0	70.0	125.0
21Jul1982	55.0	70.0	125.0
22Jul1982	55.0	70.0	125.0
23Jul1982	55.0	70.0	125.0
24Jul1982	55.0	70.0	125.0
25Jul1982	55.0	70.0	125.0
26Jul1982	55.0	70.0	125.0
27Jul1982	55.0	70.0	125.0
28Jul1982	55.0	70.0	125.0
29Jul1982	55.0	70.0	125.0
30Jul1982	55.0	70.0	125.0
31Jul1982	55.0	70.0	125.0
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02Aug1982	70.0	70.0	140.0
03Aug1982	70.0	70.0	140.0
04Aug1982	70.0	70.0	140.0
05Aug1982	70.0	70.0	140.0
06Aug1982	70.0	70.0	140.0
07Aug1982	70.0	70.0	140.0
08Aug1982	70.0	70.0	140.0
09Aug1982	70.0	70.0	140.0
10Aug1982	70.0	70.0	140.0
11Aug1982	70.0	70.0	140.0
12Aug1982	70.0	70.0	140.0
13Aug1982	70.0	70.0	140.0
14Aug1982	70.0	70.0	140.0
15Aug1982	70.0	70.0	140.0
16Aug1982	70.0	70.0	140.0
17Aug1982	70.0	70.0	140.0
18Aug1982	70.0	70.0	140.0
19Aug1982	70.0	70.0	140.0
20Aug1982	70.0	70.0	140.0
21Aug1982	70.0	70.0	140.0
22Aug1982	70.0	70.0	140.0
23Aug1982	70.0	70.0	140.0
24Aug1982	70.0	70.0	140.0
25Aug1982	70.0	70.0	140.0
26Aug1982	70.0	70.0	140.0
27Aug1982	70.0	70.0	140.0
28Aug1982	70.0	70.0	140.0
29Aug1982	70.0	70.0	140.0
30Aug1982	70.0	70.0	140.0
31Aug1982	70.0	70.0	140.0
01Sep1982	65.0	70.0	135.0
02Sep1982	65.0	70.3	135.3
03Sep1982	65.0	70.7	135.7
04Sep1982	65.0	71.0	136.0
05Sep1982	65.0	71.3	136.3
06Sep1982	65.0	71.7	136.7
07Sep1982	65.0	72.0	137.0
08Sep1982	65.0	72.3	137.3

09Sep1982	65.0	72.7	137.7
10Sep1982	65.0	73.0	138.0
11Sep1982	65.0	73.3	138.3
12Sep1982	65.0	73.7	138.7
13Sep1982	65.0	74.0	139.0
14Sep1982	65.0	74.3	139.3
15Sep1982	65.0	74.7	139.7
16Sep1982	65.0	75.0	140.0
17Sep1982	65.0	75.3	140.3
18Sep1982	65.0	75.7	140.7
19Sep1982	65.0	76.0	141.0
20Sep1982	65.0	76.3	141.3
21Sep1982	65.0	76.7	141.7
22Sep1982	65.0	77.0	142.0
23Sep1982	65.0	77.3	142.3
24Sep1982	65.0	77.7	142.7
25Sep1982	65.0	78.0	143.0
26Sep1982	65.0	78.3	143.3
27Sep1982	65.0	78.7	143.7
28Sep1982	65.0	79.0	144.0
29Sep1982	65.0	79.3	144.3
30Sep1982	65.0	79.7	144.7
01Oct1982	30.0	80.0	110.0
02Oct1982	30.0	80.0	110.0
03Oct1982	30.0	80.0	110.0
04Oct1982	30.0	80.0	110.0
05Oct1982	30.0	80.0	110.0
06Oct1982	30.0	80.0	110.0
07Oct1982	30.0	80.0	110.0
08Oct1982	30.0	80.0	110.0
09Oct1982	30.0	80.0	110.0
10Oct1982	30.0	80.0	110.0
11Oct1982	30.0	80.0	110.0
12Oct1982	30.0	80.0	110.0
13Oct1982	30.0	80.0	110.0
14Oct1982	30.0	80.0	110.0
15Oct1982	30.0	80.0	110.0
16Oct1982	30.0	80.0	110.0
17Oct1982	30.0	80.0	110.0
18Oct1982	30.0	80.0	110.0
19Oct1982	30.0	80.0	110.0
20Oct1982	30.0	80.0	110.0
21Oct1982	30.0	80.0	110.0
22Oct1982	30.0	80.0	110.0
23Oct1982	30.0	80.0	110.0
24Oct1982	30.0	80.0	110.0
25Oct1982	30.0	80.0	110.0
26Oct1982	30.0	80.0	110.0
27Oct1982	30.0	80.0	110.0
28Oct1982	30.0	80.0	110.0
29Oct1982	30.0	80.0	110.0
30Oct1982	30.0	80.0	110.0
31Oct1982	30.0	80.0	110.0
01Nov1982	3.0	80.0	83.0
02Nov1982	3.0	80.0	83.0
03Nov1982	3.0	80.0	83.0

04Nov1982	3.0	80.0	83.0
05Nov1982	3.0	80.0	83.0
06Nov1982	3.0	80.0	83.0
07Nov1982	3.0	80.0	83.0
08Nov1982	3.0	80.0	83.0
09Nov1982	3.0	80.0	83.0
10Nov1982	3.0	80.0	83.0
11Nov1982	3.0	80.0	83.0
12Nov1982	3.0	80.0	83.0
13Nov1982	3.0	80.0	83.0
14Nov1982	3.0	80.0	83.0
15Nov1982	3.0	80.0	83.0
16Nov1982	3.0	80.0	83.0
17Nov1982	3.0	80.0	83.0
18Nov1982	3.0	80.0	83.0
19Nov1982	3.0	80.0	83.0
20Nov1982	3.0	80.0	83.0
21Nov1982	3.0	80.0	83.0
22Nov1982	3.0	80.0	83.0
23Nov1982	3.0	80.0	83.0
24Nov1982	3.0	80.0	83.0
25Nov1982	3.0	80.0	83.0
26Nov1982	3.0	80.0	83.0
27Nov1982	3.0	80.0	83.0
28Nov1982	3.0	80.0	83.0
29Nov1982	3.0	80.0	83.0
30Nov1982	3.0	80.0	83.0
01Dec1982	1.0	80.0	81.0
02Dec1982	1.0	80.0	81.0
03Dec1982	1.0	80.0	81.0
04Dec1982	1.0	80.0	81.0
05Dec1982	1.0	80.0	81.0
06Dec1982	1.0	80.0	81.0
07Dec1982	1.0	80.0	81.0
08Dec1982	1.0	80.0	81.0
09Dec1982	1.0	80.0	81.0
10Dec1982	1.0	80.0	81.0
11Dec1982	1.0	80.0	81.0
12Dec1982	1.0	80.0	81.0
13Dec1982	1.0	80.0	81.0
14Dec1982	1.0	80.0	81.0
15Dec1982	1.0	80.0	81.0
16Dec1982	1.0	80.0	81.0
17Dec1982	1.0	80.0	81.0
18Dec1982	1.0	80.0	81.0
19Dec1982	1.0	80.0	81.0
20Dec1982	1.0	80.0	81.0
21Dec1982	1.0	80.0	81.0
22Dec1982	1.0	80.0	81.0
23Dec1982	1.0	80.0	81.0
24Dec1982	1.0	80.0	81.0
25Dec1982	1.0	80.0	81.0
26Dec1982	1.0	80.0	81.0
27Dec1982	1.0	80.0	81.0
28Dec1982	1.0	80.0	81.0
29Dec1982	1.0	80.0	81.0

30Dec1982	1.0	80.0	81.0
31Dec1982	1.0	80.0	81.0
01Jan1983	10.0	80.0	90.0
02Jan1983	10.0	80.6	90.6
03Jan1983	10.0	81.3	91.3
04Jan1983	10.0	81.9	91.9
05Jan1983	10.0	82.6	92.6
06Jan1983	10.0	83.2	93.2
07Jan1983	10.0	83.9	93.9
08Jan1983	10.0	84.5	94.5
09Jan1983	10.0	85.2	95.2
10Jan1983	10.0	85.8	95.8
11Jan1983	10.0	86.5	96.5
12Jan1983	10.0	87.1	97.1
13Jan1983	10.0	87.7	97.7
14Jan1983	10.0	88.4	98.4
15Jan1983	10.0	89.0	99.0
16Jan1983	10.0	89.7	99.7
17Jan1983	10.0	90.3	100.3
18Jan1983	43.0	91.0	134.0
19Jan1983	897.0	490.1	1387.1
20Jan1983	623.0	340.4	963.4
21Jan1983	180.0	98.4	278.4
22Jan1983	234.0	127.9	361.9
23Jan1983	4130.0	2256.7	6386.7
24Jan1983	1980.0	1081.9	3061.9
25Jan1983	2300.0	1256.7	3556.7
26Jan1983	511.0	279.2	790.2
27Jan1983	2080.0	1136.5	3216.5
28Jan1983	3140.0	1715.7	4855.7
29Jan1983	2030.0	1109.2	3139.2
30Jan1983	1570.0	857.9	2427.9
31Jan1983	442.0	241.5	683.5
01Feb1983	251.0	137.1	388.1
02Feb1983	208.0	113.7	321.7
03Feb1983	184.0	100.5	284.5
04Feb1983	165.0	100.0	265.0
05Feb1983	150.0	100.0	250.0
06Feb1983	154.0	100.0	254.0
07Feb1983	2720.0	1486.2	4206.2
08Feb1983	4700.0	2568.1	7268.1
09Feb1983	1770.0	967.1	2737.1
10Feb1983	554.0	302.7	856.7
11Feb1983	302.0	165.0	467.0
12Feb1983	227.0	124.0	351.0
13Feb1983	479.0	261.7	740.7
14Feb1983	611.0	333.9	944.9
15Feb1983	230.0	125.7	355.7
16Feb1983	183.0	100.0	283.0
17Feb1983	160.0	100.0	260.0
18Feb1983	146.0	100.0	246.0
19Feb1983	370.0	202.2	572.2
20Feb1983	212.0	115.8	327.8
21Feb1983	158.0	100.0	258.0
22Feb1983	137.0	100.0	237.0
23Feb1983	131.0	100.0	231.0

24Feb1983	119.0	100.0	219.0
25Feb1983	119.0	100.0	219.0
26Feb1983	429.0	234.4	663.4
27Feb1983	1640.0	896.1	2536.1
28Feb1983	1890.0	1032.7	2922.7
01Mar1983	2240.0	1223.9	3463.9
02Mar1983	2370.0	1295.0	3665.0
03Mar1983	2160.0	1180.2	3340.2
04Mar1983	594.0	324.6	918.6
05Mar1983	337.0	184.1	521.1
06Mar1983	227.0	124.0	351.0
07Mar1983	390.0	213.1	603.1
08Mar1983	659.0	360.1	1019.1
09Mar1983	239.0	130.6	369.6
10Mar1983	185.0	101.1	286.1
11Mar1983	198.0	108.2	306.2
12Mar1983	247.0	135.0	382.0
13Mar1983	1430.0	781.4	2211.4
14Mar1983	4200.0	2294.9	6494.9
15Mar1983	676.0	369.4	1045.4
16Mar1983	294.0	160.6	454.6
17Mar1983	764.0	417.5	1181.5
18Mar1983	423.0	231.1	654.1
19Mar1983	240.0	131.1	371.1
20Mar1983	193.0	105.5	298.5
21Mar1983	824.0	450.2	1274.2
22Mar1983	650.0	355.2	1005.2
23Mar1983	1320.0	721.3	2041.3
24Mar1983	527.0	288.0	815.0
25Mar1983	1530.0	836.0	2366.0
26Mar1983	601.0	328.4	929.4
27Mar1983	275.0	150.3	425.3
28Mar1983	253.0	138.2	391.2
29Mar1983	229.0	125.1	354.1
30Mar1983	173.0	100.0	273.0
31Mar1983	154.0	100.0	254.0
01Apr1983	140.0	100.0	240.0
02Apr1983	125.0	99.0	224.0
03Apr1983	108.0	98.0	206.0
04Apr1983	96.0	97.0	193.0
05Apr1983	141.0	96.0	237.0
06Apr1983	266.0	145.3	411.3
07Apr1983	181.0	98.9	279.9
08Apr1983	129.0	93.0	222.0
09Apr1983	103.0	92.0	195.0
10Apr1983	61.0	91.0	152.0
11Apr1983	40.0	90.0	130.0
12Apr1983	40.0	89.0	129.0
13Apr1983	40.0	88.0	128.0
14Apr1983	40.0	87.0	127.0
15Apr1983	40.0	86.0	126.0
16Apr1983	40.0	85.0	125.0
17Apr1983	40.0	84.0	124.0
18Apr1983	40.0	83.0	123.0
19Apr1983	40.0	82.0	122.0
20Apr1983	40.0	81.0	121.0

21Apr1983	40.0	80.0	120.0
22Apr1983	40.0	79.0	119.0
23Apr1983	40.0	78.0	118.0
24Apr1983	40.0	77.0	117.0
25Apr1983	40.0	76.0	116.0
26Apr1983	40.0	75.0	115.0
27Apr1983	40.0	74.0	114.0
28Apr1983	40.0	73.0	113.0
29Apr1983	40.0	72.0	112.0
30Apr1983	40.0	71.0	111.0
01May1983	45.0	70.0	115.0
02May1983	45.0	70.0	115.0
03May1983	45.0	70.0	115.0
04May1983	45.0	70.0	115.0
05May1983	45.0	70.0	115.0
06May1983	45.0	70.0	115.0
07May1983	45.0	70.0	115.0
08May1983	45.0	70.0	115.0
09May1983	45.0	70.0	115.0
10May1983	45.0	70.0	115.0
11May1983	45.0	70.0	115.0
12May1983	45.0	70.0	115.0
13May1983	45.0	70.0	115.0
14May1983	45.0	70.0	115.0
15May1983	45.0	70.0	115.0
16May1983	45.0	70.0	115.0
17May1983	45.0	70.0	115.0
18May1983	45.0	70.0	115.0
19May1983	45.0	70.0	115.0
20May1983	45.0	70.0	115.0
21May1983	45.0	70.0	115.0
22May1983	45.0	70.0	115.0
23May1983	45.0	70.0	115.0
24May1983	45.0	70.0	115.0
25May1983	45.0	70.0	115.0
26May1983	45.0	70.0	115.0
27May1983	45.0	70.0	115.0
28May1983	45.0	70.0	115.0
29May1983	45.0	70.0	115.0
30May1983	45.0	70.0	115.0
31May1983	45.0	70.0	115.0
01Jun1983	50.0	70.0	120.0
02Jun1983	50.0	70.0	120.0
03Jun1983	50.0	70.0	120.0
04Jun1983	50.0	70.0	120.0
05Jun1983	50.0	70.0	120.0
06Jun1983	50.0	70.0	120.0
07Jun1983	50.0	70.0	120.0
08Jun1983	50.0	70.0	120.0
09Jun1983	50.0	70.0	120.0
10Jun1983	50.0	70.0	120.0
11Jun1983	50.0	70.0	120.0
12Jun1983	50.0	70.0	120.0
13Jun1983	50.0	70.0	120.0
14Jun1983	50.0	70.0	120.0
15Jun1983	50.0	70.0	120.0

16Jun1983	50.0	70.0	120.0
17Jun1983	50.0	70.0	120.0
18Jun1983	50.0	70.0	120.0
19Jun1983	50.0	70.0	120.0
20Jun1983	50.0	70.0	120.0
21Jun1983	50.0	70.0	120.0
22Jun1983	50.0	70.0	120.0
23Jun1983	50.0	70.0	120.0
24Jun1983	50.0	70.0	120.0
25Jun1983	50.0	70.0	120.0
26Jun1983	50.0	70.0	120.0
27Jun1983	50.0	70.0	120.0
28Jun1983	50.0	70.0	120.0
29Jun1983	50.0	70.0	120.0
30Jun1983	50.0	70.0	120.0
01Jul1983	55.0	70.0	125.0
02Jul1983	55.0	70.0	125.0
03Jul1983	55.0	70.0	125.0
04Jul1983	55.0	70.0	125.0
05Jul1983	55.0	70.0	125.0
06Jul1983	55.0	70.0	125.0
07Jul1983	55.0	70.0	125.0
08Jul1983	55.0	70.0	125.0
09Jul1983	55.0	70.0	125.0
10Jul1983	55.0	70.0	125.0
11Jul1983	55.0	70.0	125.0
12Jul1983	55.0	70.0	125.0
13Jul1983	55.0	70.0	125.0
14Jul1983	55.0	70.0	125.0
15Jul1983	55.0	70.0	125.0
16Jul1983	55.0	70.0	125.0
17Jul1983	55.0	70.0	125.0
18Jul1983	55.0	70.0	125.0
19Jul1983	55.0	70.0	125.0
20Jul1983	55.0	70.0	125.0
21Jul1983	55.0	70.0	125.0
22Jul1983	55.0	70.0	125.0
23Jul1983	55.0	70.0	125.0
24Jul1983	55.0	70.0	125.0
25Jul1983	55.0	70.0	125.0
26Jul1983	55.0	70.0	125.0
27Jul1983	55.0	70.0	125.0
28Jul1983	55.0	70.0	125.0
29Jul1983	55.0	70.0	125.0
30Jul1983	55.0	70.0	125.0
31Jul1983	55.0	70.0	125.0
01Aug1983	70.0	70.0	140.0
02Aug1983	70.0	70.0	140.0
03Aug1983	70.0	70.0	140.0
04Aug1983	70.0	70.0	140.0
05Aug1983	70.0	70.0	140.0
06Aug1983	70.0	70.0	140.0
07Aug1983	70.0	70.0	140.0
08Aug1983	70.0	70.0	140.0
09Aug1983	70.0	70.0	140.0
10Aug1983	70.0	70.0	140.0

11Aug1983	70.0	70.0	140.0
12Aug1983	70.0	70.0	140.0
13Aug1983	70.0	70.0	140.0
14Aug1983	70.0	70.0	140.0
15Aug1983	70.0	70.0	140.0
16Aug1983	70.0	70.0	140.0
17Aug1983	70.0	70.0	140.0
18Aug1983	70.0	70.0	140.0
19Aug1983	70.0	70.0	140.0
20Aug1983	70.0	70.0	140.0
21Aug1983	70.0	70.0	140.0
22Aug1983	70.0	70.0	140.0
23Aug1983	70.0	70.0	140.0
24Aug1983	70.0	70.0	140.0
25Aug1983	70.0	70.0	140.0
26Aug1983	70.0	70.0	140.0
27Aug1983	70.0	70.0	140.0
28Aug1983	70.0	70.0	140.0
29Aug1983	70.0	70.0	140.0
30Aug1983	70.0	70.0	140.0
31Aug1983	70.0	70.0	140.0
01Sep1983	65.0	70.0	135.0
02Sep1983	65.0	70.3	135.3
03Sep1983	65.0	70.7	135.7
04Sep1983	65.0	71.0	136.0
05Sep1983	65.0	71.3	136.3
06Sep1983	65.0	71.7	136.7
07Sep1983	65.0	72.0	137.0
08Sep1983	65.0	72.3	137.3
09Sep1983	65.0	72.7	137.7
10Sep1983	65.0	73.0	138.0
11Sep1983	65.0	73.3	138.3
12Sep1983	65.0	73.7	138.7
13Sep1983	65.0	74.0	139.0
14Sep1983	65.0	74.3	139.3
15Sep1983	65.0	74.7	139.7
16Sep1983	65.0	75.0	140.0
17Sep1983	65.0	75.3	140.3
18Sep1983	65.0	75.7	140.7
19Sep1983	65.0	76.0	141.0
20Sep1983	65.0	76.3	141.3
21Sep1983	65.0	76.7	141.7
22Sep1983	65.0	77.0	142.0
23Sep1983	65.0	77.3	142.3
24Sep1983	65.0	77.7	142.7
25Sep1983	65.0	78.0	143.0
26Sep1983	65.0	78.3	143.3
27Sep1983	65.0	78.7	143.7
28Sep1983	65.0	79.0	144.0
29Sep1983	65.0	79.3	144.3
30Sep1983	65.0	79.7	144.7
01Oct1983	30.0	80.0	110.0
02Oct1983	30.0	80.0	110.0
03Oct1983	30.0	80.0	110.0
04Oct1983	30.0	80.0	110.0
05Oct1983	30.0	80.0	110.0

06Oct1983	30.0	80.0	110.0
07Oct1983	30.0	80.0	110.0
08Oct1983	30.0	80.0	110.0
09Oct1983	30.0	80.0	110.0
10Oct1983	30.0	80.0	110.0
11Oct1983	30.0	80.0	110.0
12Oct1983	30.0	80.0	110.0
13Oct1983	30.0	80.0	110.0
14Oct1983	30.0	80.0	110.0
15Oct1983	30.0	80.0	110.0
16Oct1983	30.0	80.0	110.0
17Oct1983	30.0	80.0	110.0
18Oct1983	30.0	80.0	110.0
19Oct1983	30.0	80.0	110.0
20Oct1983	30.0	80.0	110.0
21Oct1983	30.0	80.0	110.0
22Oct1983	30.0	80.0	110.0
23Oct1983	30.0	80.0	110.0
24Oct1983	30.0	80.0	110.0
25Oct1983	30.0	80.0	110.0
26Oct1983	30.0	80.0	110.0
27Oct1983	30.0	80.0	110.0
28Oct1983	30.0	80.0	110.0
29Oct1983	30.0	80.0	110.0
30Oct1983	30.0	80.0	110.0
31Oct1983	30.0	80.0	110.0
01Nov1983	3.0	80.0	83.0
02Nov1983	3.0	80.0	83.0
03Nov1983	3.0	80.0	83.0
04Nov1983	3.0	80.0	83.0
05Nov1983	3.0	80.0	83.0
06Nov1983	3.0	80.0	83.0
07Nov1983	3.0	80.0	83.0
08Nov1983	3.0	80.0	83.0
09Nov1983	3.0	80.0	83.0
10Nov1983	3.0	80.0	83.0
11Nov1983	3.0	80.0	83.0
12Nov1983	3.0	80.0	83.0
13Nov1983	3.0	80.0	83.0
14Nov1983	3.0	80.0	83.0
15Nov1983	91.0	80.0	171.0
16Nov1983	281.0	153.5	434.5
17Nov1983	394.0	215.3	609.3
18Nov1983	988.0	539.8	1527.8
19Nov1983	620.0	338.8	958.8
20Nov1983	491.0	268.3	759.3
21Nov1983	1520.0	830.5	2350.5
22Nov1983	691.0	377.6	1068.6
23Nov1983	482.0	263.4	745.4
24Nov1983	484.0	264.5	748.5
25Nov1983	2890.0	1579.1	4469.1
26Nov1983	626.0	342.0	968.0
27Nov1983	468.0	255.7	723.7
28Nov1983	383.0	209.3	592.3
29Nov1983	352.0	192.3	544.3
30Nov1983	337.0	184.1	521.1

01Dec1983	331.0	180.9	511.9
02Dec1983	328.0	179.2	507.2
03Dec1983	355.0	194.0	549.0
04Dec1983	582.0	318.0	900.0
05Dec1983	544.0	297.2	841.2
06Dec1983	433.0	236.6	669.6
07Dec1983	399.0	218.0	617.0
08Dec1983	385.0	210.4	595.4
09Dec1983	379.0	207.1	586.1
10Dec1983	549.0	300.0	849.0
11Dec1983	686.0	374.8	1060.8
12Dec1983	768.0	419.6	1187.6
13Dec1983	554.0	302.7	856.7
14Dec1983	409.0	223.5	632.5
15Dec1983	375.0	204.9	579.9
16Dec1983	349.0	190.7	539.7
17Dec1983	191.0	104.4	295.4
18Dec1983	123.0	80.0	203.0
19Dec1983	105.0	80.0	185.0
20Dec1983	93.0	80.0	173.0
21Dec1983	81.0	80.0	161.0
22Dec1983	76.0	80.0	156.0
23Dec1983	105.0	80.0	185.0
24Dec1983	343.0	187.4	530.4
25Dec1983	3330.0	1819.5	5149.5
26Dec1983	2180.0	1191.2	3371.2
27Dec1983	886.0	484.1	1370.1
28Dec1983	504.0	275.4	779.4
29Dec1983	239.0	130.6	369.6
30Dec1983	182.0	99.4	281.4
31Dec1983	270.0	147.5	417.5
01Jan1984	201.0	109.8	310.8
02Jan1984	150.0	82.0	232.0
03Jan1984	124.0	81.3	205.3
04Jan1984	109.0	81.9	190.9
05Jan1984	98.0	82.6	180.6
06Jan1984	89.0	83.2	172.2
07Jan1984	86.0	83.9	169.9
08Jan1984	86.0	84.5	170.5
09Jan1984	81.0	85.2	166.2
10Jan1984	76.0	85.8	161.8
11Jan1984	10.0	86.5	96.5
12Jan1984	10.0	87.1	97.1
13Jan1984	10.0	87.7	97.7
14Jan1984	10.0	88.4	98.4
15Jan1984	10.0	89.0	99.0
16Jan1984	10.0	89.7	99.7
17Jan1984	10.0	90.3	100.3
18Jan1984	10.0	91.0	101.0
19Jan1984	10.0	91.6	101.6
20Jan1984	10.0	92.3	102.3
21Jan1984	10.0	92.9	102.9
22Jan1984	10.0	93.5	103.5
23Jan1984	10.0	94.2	104.2
24Jan1984	10.0	94.8	104.8
25Jan1984	10.0	95.5	105.5

26Jan1984	10.0	96.1	106.1
27Jan1984	10.0	96.8	106.8
28Jan1984	10.0	97.4	107.4
29Jan1984	10.0	98.1	108.1
30Jan1984	10.0	98.7	108.7
31Jan1984	10.0	99.4	109.4
01Feb1984	30.0	100.0	130.0
02Feb1984	30.0	100.0	130.0
03Feb1984	30.0	100.0	130.0
04Feb1984	30.0	100.0	130.0
05Feb1984	30.0	100.0	130.0
06Feb1984	30.0	100.0	130.0
07Feb1984	30.0	100.0	130.0
08Feb1984	30.0	100.0	130.0
09Feb1984	30.0	100.0	130.0
10Feb1984	30.0	100.0	130.0
11Feb1984	30.0	100.0	130.0
12Feb1984	30.0	100.0	130.0
13Feb1984	30.0	100.0	130.0
14Feb1984	58.0	100.0	158.0
15Feb1984	128.0	100.0	228.0
16Feb1984	282.0	154.1	436.1
17Feb1984	305.0	166.7	471.7
18Feb1984	149.0	100.0	249.0
19Feb1984	99.0	100.0	199.0
20Feb1984	77.0	100.0	177.0
21Feb1984	120.0	100.0	220.0
22Feb1984	836.0	456.8	1292.8
23Feb1984	206.0	112.6	318.6
24Feb1984	137.0	100.0	237.0
25Feb1984	105.0	100.0	205.0
26Feb1984	86.0	100.0	186.0
27Feb1984	74.0	100.0	174.0
28Feb1984	64.0	100.0	164.0
29Feb1984	57.0	100.0	157.0
01Mar1984	53.0	100.0	153.0
02Mar1984	49.0	100.0	149.0
03Mar1984	45.0	100.0	145.0
04Mar1984	41.0	100.0	141.0
05Mar1984	38.0	100.0	138.0
06Mar1984	34.0	100.0	134.0
07Mar1984	31.0	100.0	131.0
08Mar1984	30.0	100.0	130.0
09Mar1984	30.0	100.0	130.0
10Mar1984	30.0	100.0	130.0
11Mar1984	30.0	100.0	130.0
12Mar1984	30.0	100.0	130.0
13Mar1984	30.0	100.0	130.0
14Mar1984	30.0	100.0	130.0
15Mar1984	30.0	100.0	130.0
16Mar1984	30.0	100.0	130.0
17Mar1984	30.0	100.0	130.0
18Mar1984	30.0	100.0	130.0
19Mar1984	30.0	100.0	130.0
20Mar1984	30.0	100.0	130.0
21Mar1984	30.0	100.0	130.0

22Mar1984	30.0	100.0	130.0
23Mar1984	30.0	100.0	130.0
24Mar1984	30.0	100.0	130.0
25Mar1984	30.0	100.0	130.0
26Mar1984	30.0	100.0	130.0
27Mar1984	30.0	100.0	130.0
28Mar1984	30.0	100.0	130.0
29Mar1984	30.0	100.0	130.0
30Mar1984	30.0	100.0	130.0
31Mar1984	30.0	100.0	130.0
01Apr1984	40.0	100.0	140.0
02Apr1984	40.0	99.0	139.0
03Apr1984	40.0	98.0	138.0
04Apr1984	40.0	97.0	137.0
05Apr1984	40.0	96.0	136.0
06Apr1984	40.0	95.0	135.0
07Apr1984	40.0	94.0	134.0
08Apr1984	40.0	93.0	133.0
09Apr1984	40.0	92.0	132.0
10Apr1984	40.0	91.0	131.0
11Apr1984	40.0	90.0	130.0
12Apr1984	40.0	89.0	129.0
13Apr1984	40.0	88.0	128.0
14Apr1984	40.0	87.0	127.0
15Apr1984	40.0	86.0	126.0
16Apr1984	40.0	85.0	125.0
17Apr1984	40.0	84.0	124.0
18Apr1984	40.0	83.0	123.0
19Apr1984	40.0	82.0	122.0
20Apr1984	40.0	81.0	121.0
21Apr1984	40.0	80.0	120.0
22Apr1984	40.0	79.0	119.0
23Apr1984	40.0	78.0	118.0
24Apr1984	40.0	77.0	117.0
25Apr1984	40.0	76.0	116.0
26Apr1984	40.0	75.0	115.0
27Apr1984	40.0	74.0	114.0
28Apr1984	40.0	73.0	113.0
29Apr1984	40.0	72.0	112.0
30Apr1984	40.0	71.0	111.0
01May1984	45.0	70.0	115.0
02May1984	45.0	70.0	115.0
03May1984	45.0	70.0	115.0
04May1984	45.0	70.0	115.0
05May1984	45.0	70.0	115.0
06May1984	45.0	70.0	115.0
07May1984	45.0	70.0	115.0
08May1984	45.0	70.0	115.0
09May1984	45.0	70.0	115.0
10May1984	45.0	70.0	115.0
11May1984	45.0	70.0	115.0
12May1984	45.0	70.0	115.0
13May1984	45.0	70.0	115.0
14May1984	45.0	70.0	115.0
15May1984	45.0	70.0	115.0
16May1984	45.0	70.0	115.0

17May1984	45.0	70.0	115.0
18May1984	45.0	70.0	115.0
19May1984	45.0	70.0	115.0
20May1984	45.0	70.0	115.0
21May1984	45.0	70.0	115.0
22May1984	45.0	70.0	115.0
23May1984	45.0	70.0	115.0
24May1984	45.0	70.0	115.0
25May1984	45.0	70.0	115.0
26May1984	45.0	70.0	115.0
27May1984	45.0	70.0	115.0
28May1984	45.0	70.0	115.0
29May1984	45.0	70.0	115.0
30May1984	45.0	70.0	115.0
31May1984	45.0	70.0	115.0
01Jun1984	50.0	70.0	120.0
02Jun1984	50.0	70.0	120.0
03Jun1984	50.0	70.0	120.0
04Jun1984	50.0	70.0	120.0
05Jun1984	50.0	70.0	120.0
06Jun1984	50.0	70.0	120.0
07Jun1984	50.0	70.0	120.0
08Jun1984	50.0	70.0	120.0
09Jun1984	50.0	70.0	120.0
10Jun1984	50.0	70.0	120.0
11Jun1984	50.0	70.0	120.0
12Jun1984	50.0	70.0	120.0
13Jun1984	50.0	70.0	120.0
14Jun1984	50.0	70.0	120.0
15Jun1984	50.0	70.0	120.0
16Jun1984	50.0	70.0	120.0
17Jun1984	50.0	70.0	120.0
18Jun1984	50.0	70.0	120.0
19Jun1984	50.0	70.0	120.0
20Jun1984	50.0	70.0	120.0
21Jun1984	50.0	70.0	120.0
22Jun1984	50.0	70.0	120.0
23Jun1984	50.0	70.0	120.0
24Jun1984	50.0	70.0	120.0
25Jun1984	50.0	70.0	120.0
26Jun1984	50.0	70.0	120.0
27Jun1984	50.0	70.0	120.0
28Jun1984	50.0	70.0	120.0
29Jun1984	50.0	70.0	120.0
30Jun1984	50.0	70.0	120.0
01Jul1984	55.0	70.0	125.0
02Jul1984	55.0	70.0	125.0
03Jul1984	55.0	70.0	125.0
04Jul1984	55.0	70.0	125.0
05Jul1984	55.0	70.0	125.0
06Jul1984	55.0	70.0	125.0
07Jul1984	55.0	70.0	125.0
08Jul1984	55.0	70.0	125.0
09Jul1984	55.0	70.0	125.0
10Jul1984	55.0	70.0	125.0
11Jul1984	55.0	70.0	125.0

12Jul1984	55.0	70.0	125.0
13Jul1984	55.0	70.0	125.0
14Jul1984	55.0	70.0	125.0
15Jul1984	55.0	70.0	125.0
16Jul1984	55.0	70.0	125.0
17Jul1984	55.0	70.0	125.0
18Jul1984	55.0	70.0	125.0
19Jul1984	55.0	70.0	125.0
20Jul1984	55.0	70.0	125.0
21Jul1984	55.0	70.0	125.0
22Jul1984	55.0	70.0	125.0
23Jul1984	55.0	70.0	125.0
24Jul1984	55.0	70.0	125.0
25Jul1984	55.0	70.0	125.0
26Jul1984	55.0	70.0	125.0
27Jul1984	55.0	70.0	125.0
28Jul1984	55.0	70.0	125.0
29Jul1984	55.0	70.0	125.0
30Jul1984	55.0	70.0	125.0
31Jul1984	55.0	70.0	125.0
01Aug1984	70.0	70.0	140.0
02Aug1984	70.0	70.0	140.0
03Aug1984	70.0	70.0	140.0
04Aug1984	70.0	70.0	140.0
05Aug1984	70.0	70.0	140.0
06Aug1984	70.0	70.0	140.0
07Aug1984	70.0	70.0	140.0
08Aug1984	70.0	70.0	140.0
09Aug1984	70.0	70.0	140.0
10Aug1984	70.0	70.0	140.0
11Aug1984	70.0	70.0	140.0
12Aug1984	70.0	70.0	140.0
13Aug1984	70.0	70.0	140.0
14Aug1984	70.0	70.0	140.0
15Aug1984	70.0	70.0	140.0
16Aug1984	70.0	70.0	140.0
17Aug1984	70.0	70.0	140.0
18Aug1984	70.0	70.0	140.0
19Aug1984	70.0	70.0	140.0
20Aug1984	70.0	70.0	140.0
21Aug1984	70.0	70.0	140.0
22Aug1984	70.0	70.0	140.0
23Aug1984	70.0	70.0	140.0
24Aug1984	70.0	70.0	140.0
25Aug1984	70.0	70.0	140.0
26Aug1984	70.0	70.0	140.0
27Aug1984	70.0	70.0	140.0
28Aug1984	70.0	70.0	140.0
29Aug1984	70.0	70.0	140.0
30Aug1984	70.0	70.0	140.0
31Aug1984	70.0	70.0	140.0
01Sep1984	65.0	70.0	135.0
02Sep1984	65.0	70.3	135.3
03Sep1984	65.0	70.7	135.7
04Sep1984	65.0	71.0	136.0
05Sep1984	65.0	71.3	136.3

06Sep1984	65.0	71.7	136.7
07Sep1984	65.0	72.0	137.0
08Sep1984	65.0	72.3	137.3
09Sep1984	65.0	72.7	137.7
10Sep1984	65.0	73.0	138.0
11Sep1984	65.0	73.3	138.3
12Sep1984	65.0	73.7	138.7
13Sep1984	65.0	74.0	139.0
14Sep1984	65.0	74.3	139.3
15Sep1984	65.0	74.7	139.7
16Sep1984	65.0	75.0	140.0
17Sep1984	65.0	75.3	140.3
18Sep1984	65.0	75.7	140.7
19Sep1984	65.0	76.0	141.0
20Sep1984	65.0	76.3	141.3
21Sep1984	65.0	76.7	141.7
22Sep1984	65.0	77.0	142.0
23Sep1984	65.0	77.3	142.3
24Sep1984	65.0	77.7	142.7
25Sep1984	65.0	78.0	143.0
26Sep1984	65.0	78.3	143.3
27Sep1984	65.0	78.7	143.7
28Sep1984	65.0	79.0	144.0
29Sep1984	65.0	79.3	144.3
30Sep1984	65.0	79.7	144.7
01Oct1984	30.0	80.0	110.0
02Oct1984	30.0	80.0	110.0
03Oct1984	30.0	80.0	110.0
04Oct1984	30.0	80.0	110.0
05Oct1984	30.0	80.0	110.0
06Oct1984	30.0	80.0	110.0
07Oct1984	30.0	80.0	110.0
08Oct1984	30.0	80.0	110.0
09Oct1984	30.0	80.0	110.0
10Oct1984	30.0	80.0	110.0
11Oct1984	30.0	80.0	110.0
12Oct1984	30.0	80.0	110.0
13Oct1984	30.0	80.0	110.0
14Oct1984	30.0	80.0	110.0
15Oct1984	30.0	80.0	110.0
16Oct1984	30.0	80.0	110.0
17Oct1984	30.0	80.0	110.0
18Oct1984	30.0	80.0	110.0
19Oct1984	30.0	80.0	110.0
20Oct1984	30.0	80.0	110.0
21Oct1984	30.0	80.0	110.0
22Oct1984	30.0	80.0	110.0
23Oct1984	30.0	80.0	110.0
24Oct1984	30.0	80.0	110.0
25Oct1984	30.0	80.0	110.0
26Oct1984	30.0	80.0	110.0
27Oct1984	30.0	80.0	110.0
28Oct1984	30.0	80.0	110.0
29Oct1984	30.0	80.0	110.0
30Oct1984	30.0	80.0	110.0
31Oct1984	30.0	80.0	110.0

01Nov1984	3.0	80.0	83.0
02Nov1984	3.0	80.0	83.0
03Nov1984	3.0	80.0	83.0
04Nov1984	3.0	80.0	83.0
05Nov1984	3.0	80.0	83.0
06Nov1984	3.0	80.0	83.0
07Nov1984	3.0	80.0	83.0
08Nov1984	3.0	80.0	83.0
09Nov1984	3.0	80.0	83.0
10Nov1984	3.0	80.0	83.0
11Nov1984	3.0	80.0	83.0
12Nov1984	3.0	80.0	83.0
13Nov1984	3.0	80.0	83.0
14Nov1984	3.0	80.0	83.0
15Nov1984	3.0	80.0	83.0
16Nov1984	3.0	80.0	83.0
17Nov1984	3.0	80.0	83.0
18Nov1984	3.0	80.0	83.0
19Nov1984	3.0	80.0	83.0
20Nov1984	3.0	80.0	83.0
21Nov1984	3.0	80.0	83.0
22Nov1984	3.0	80.0	83.0
23Nov1984	3.0	80.0	83.0
24Nov1984	3.0	80.0	83.0
25Nov1984	3.0	80.0	83.0
26Nov1984	3.0	80.0	83.0
27Nov1984	3.0	80.0	83.0
28Nov1984	3.0	80.0	83.0
29Nov1984	3.0	80.0	83.0
30Nov1984	3.0	80.0	83.0
01Dec1984	1.0	80.0	81.0
02Dec1984	1.0	80.0	81.0
03Dec1984	1.0	80.0	81.0
04Dec1984	1.0	80.0	81.0
05Dec1984	1.0	80.0	81.0
06Dec1984	1.0	80.0	81.0
07Dec1984	1.0	80.0	81.0
08Dec1984	1.0	80.0	81.0
09Dec1984	1.0	80.0	81.0
10Dec1984	1.0	80.0	81.0
11Dec1984	1.0	80.0	81.0
12Dec1984	1.0	80.0	81.0
13Dec1984	1.0	80.0	81.0
14Dec1984	1.0	80.0	81.0
15Dec1984	1.0	80.0	81.0
16Dec1984	260.0	142.1	402.1
17Dec1984	264.0	144.3	408.3
18Dec1984	110.0	80.0	190.0
19Dec1984	71.0	80.0	151.0
20Dec1984	50.0	80.0	130.0
21Dec1984	38.0	80.0	118.0
22Dec1984	30.0	80.0	110.0
23Dec1984	1.0	80.0	81.0
24Dec1984	1.0	80.0	81.0
25Dec1984	1.0	80.0	81.0
26Dec1984	1.0	80.0	81.0

27Dec1984	1.0	80.0	81.0
28Dec1984	1.0	80.0	81.0
29Dec1984	1.0	80.0	81.0
30Dec1984	1.0	80.0	81.0
31Dec1984	1.0	80.0	81.0
01Jan1985	10.0	80.0	90.0
02Jan1985	10.0	80.6	90.6
03Jan1985	10.0	81.3	91.3
04Jan1985	10.0	81.9	91.9
05Jan1985	10.0	82.6	92.6
06Jan1985	10.0	83.2	93.2
07Jan1985	10.0	83.9	93.9
08Jan1985	10.0	84.5	94.5
09Jan1985	10.0	85.2	95.2
10Jan1985	10.0	85.8	95.8
11Jan1985	10.0	86.5	96.5
12Jan1985	10.0	87.1	97.1
13Jan1985	10.0	87.7	97.7
14Jan1985	10.0	88.4	98.4
15Jan1985	10.0	89.0	99.0
16Jan1985	10.0	89.7	99.7
17Jan1985	10.0	90.3	100.3
18Jan1985	10.0	91.0	101.0
19Jan1985	10.0	91.6	101.6
20Jan1985	10.0	92.3	102.3
21Jan1985	10.0	92.9	102.9
22Jan1985	10.0	93.5	103.5
23Jan1985	10.0	94.2	104.2
24Jan1985	10.0	94.8	104.8
25Jan1985	10.0	95.5	105.5
26Jan1985	10.0	96.1	106.1
27Jan1985	10.0	96.8	106.8
28Jan1985	10.0	97.4	107.4
29Jan1985	10.0	98.1	108.1
30Jan1985	10.0	98.7	108.7
31Jan1985	10.0	99.4	109.4
01Feb1985	30.0	100.0	130.0
02Feb1985	30.0	100.0	130.0
03Feb1985	30.0	100.0	130.0
04Feb1985	30.0	100.0	130.0
05Feb1985	30.0	100.0	130.0
06Feb1985	30.0	100.0	130.0
07Feb1985	30.0	100.0	130.0
08Feb1985	90.0	100.0	190.0
09Feb1985	1730.0	945.3	2675.3
10Feb1985	294.0	160.6	454.6
11Feb1985	137.0	100.0	237.0
12Feb1985	96.0	100.0	196.0
13Feb1985	75.0	100.0	175.0
14Feb1985	62.0	100.0	162.0
15Feb1985	54.0	100.0	154.0
16Feb1985	47.0	100.0	147.0
17Feb1985	40.0	100.0	140.0
18Feb1985	36.0	100.0	136.0
19Feb1985	32.0	100.0	132.0
20Feb1985	30.0	100.0	130.0

21Feb1985	30.0	100.0	130.0
22Feb1985	30.0	100.0	130.0
23Feb1985	30.0	100.0	130.0
24Feb1985	30.0	100.0	130.0
25Feb1985	30.0	100.0	130.0
26Feb1985	30.0	100.0	130.0
27Feb1985	30.0	100.0	130.0
28Feb1985	30.0	100.0	130.0
01Mar1985	30.0	100.0	130.0
02Mar1985	30.0	100.0	130.0
03Mar1985	30.0	100.0	130.0
04Mar1985	30.0	100.0	130.0
05Mar1985	30.0	100.0	130.0
06Mar1985	43.0	100.0	143.0
07Mar1985	72.0	100.0	172.0
08Mar1985	59.0	100.0	159.0
09Mar1985	91.0	100.0	191.0
10Mar1985	83.0	100.0	183.0
11Mar1985	91.0	100.0	191.0
12Mar1985	123.0	100.0	223.0
13Mar1985	101.0	100.0	201.0
14Mar1985	75.0	100.0	175.0
15Mar1985	69.0	100.0	169.0
16Mar1985	66.0	100.0	166.0
17Mar1985	53.0	100.0	153.0
18Mar1985	44.0	100.0	144.0
19Mar1985	37.0	100.0	137.0
20Mar1985	38.0	100.0	138.0
21Mar1985	43.0	100.0	143.0
22Mar1985	31.0	100.0	131.0
23Mar1985	30.0	100.0	130.0
24Mar1985	30.0	100.0	130.0
25Mar1985	30.0	100.0	130.0
26Mar1985	30.0	100.0	130.0
27Mar1985	63.0	100.0	163.0
28Mar1985	62.0	100.0	162.0
29Mar1985	233.0	127.3	360.3
30Mar1985	108.0	100.0	208.0
31Mar1985	71.0	100.0	171.0
01Apr1985	52.0	100.0	152.0
02Apr1985	53.0	99.0	152.0
03Apr1985	55.0	98.0	153.0
04Apr1985	40.0	97.0	137.0
05Apr1985	40.0	96.0	136.0
06Apr1985	40.0	95.0	135.0
07Apr1985	40.0	94.0	134.0
08Apr1985	40.0	93.0	133.0
09Apr1985	40.0	92.0	132.0
10Apr1985	40.0	91.0	131.0
11Apr1985	40.0	90.0	130.0
12Apr1985	40.0	89.0	129.0
13Apr1985	40.0	88.0	128.0
14Apr1985	40.0	87.0	127.0
15Apr1985	40.0	86.0	126.0
16Apr1985	40.0	85.0	125.0
17Apr1985	40.0	84.0	124.0

18Apr1985	40.0	83.0	123.0
19Apr1985	40.0	82.0	122.0
20Apr1985	40.0	81.0	121.0
21Apr1985	40.0	80.0	120.0
22Apr1985	40.0	79.0	119.0
23Apr1985	40.0	78.0	118.0
24Apr1985	40.0	77.0	117.0
25Apr1985	40.0	76.0	116.0
26Apr1985	40.0	75.0	115.0
27Apr1985	40.0	74.0	114.0
28Apr1985	40.0	73.0	113.0
29Apr1985	40.0	72.0	112.0
30Apr1985	40.0	71.0	111.0
01May1985	45.0	70.0	115.0
02May1985	45.0	70.0	115.0
03May1985	45.0	70.0	115.0
04May1985	45.0	70.0	115.0
05May1985	45.0	70.0	115.0
06May1985	45.0	70.0	115.0
07May1985	45.0	70.0	115.0
08May1985	45.0	70.0	115.0
09May1985	45.0	70.0	115.0
10May1985	45.0	70.0	115.0
11May1985	45.0	70.0	115.0
12May1985	45.0	70.0	115.0
13May1985	45.0	70.0	115.0
14May1985	45.0	70.0	115.0
15May1985	45.0	70.0	115.0
16May1985	45.0	70.0	115.0
17May1985	45.0	70.0	115.0
18May1985	45.0	70.0	115.0
19May1985	45.0	70.0	115.0
20May1985	45.0	70.0	115.0
21May1985	45.0	70.0	115.0
22May1985	45.0	70.0	115.0
23May1985	45.0	70.0	115.0
24May1985	45.0	70.0	115.0
25May1985	45.0	70.0	115.0
26May1985	45.0	70.0	115.0
27May1985	45.0	70.0	115.0
28May1985	45.0	70.0	115.0
29May1985	45.0	70.0	115.0
30May1985	45.0	70.0	115.0
31May1985	45.0	70.0	115.0
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03Jun1985	50.0	70.0	120.0
04Jun1985	50.0	70.0	120.0
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06Jun1985	50.0	70.0	120.0
07Jun1985	50.0	70.0	120.0
08Jun1985	50.0	70.0	120.0
09Jun1985	50.0	70.0	120.0
10Jun1985	50.0	70.0	120.0
11Jun1985	50.0	70.0	120.0
12Jun1985	50.0	70.0	120.0

13Jun1985	50.0	70.0	120.0
14Jun1985	50.0	70.0	120.0
15Jun1985	50.0	70.0	120.0
16Jun1985	50.0	70.0	120.0
17Jun1985	50.0	70.0	120.0
18Jun1985	50.0	70.0	120.0
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21Jun1985	50.0	70.0	120.0
22Jun1985	50.0	70.0	120.0
23Jun1985	50.0	70.0	120.0
24Jun1985	50.0	70.0	120.0
25Jun1985	50.0	70.0	120.0
26Jun1985	50.0	70.0	120.0
27Jun1985	50.0	70.0	120.0
28Jun1985	50.0	70.0	120.0
29Jun1985	50.0	70.0	120.0
30Jun1985	50.0	70.0	120.0
01Jul1985	55.0	70.0	125.0
02Jul1985	55.0	70.0	125.0
03Jul1985	55.0	70.0	125.0
04Jul1985	55.0	70.0	125.0
05Jul1985	55.0	70.0	125.0
06Jul1985	55.0	70.0	125.0
07Jul1985	55.0	70.0	125.0
08Jul1985	55.0	70.0	125.0
09Jul1985	55.0	70.0	125.0
10Jul1985	55.0	70.0	125.0
11Jul1985	55.0	70.0	125.0
12Jul1985	55.0	70.0	125.0
13Jul1985	55.0	70.0	125.0
14Jul1985	55.0	70.0	125.0
15Jul1985	55.0	70.0	125.0
16Jul1985	55.0	70.0	125.0
17Jul1985	55.0	70.0	125.0
18Jul1985	55.0	70.0	125.0
19Jul1985	55.0	70.0	125.0
20Jul1985	55.0	70.0	125.0
21Jul1985	55.0	70.0	125.0
22Jul1985	55.0	70.0	125.0
23Jul1985	55.0	70.0	125.0
24Jul1985	55.0	70.0	125.0
25Jul1985	55.0	70.0	125.0
26Jul1985	55.0	70.0	125.0
27Jul1985	55.0	70.0	125.0
28Jul1985	55.0	70.0	125.0
29Jul1985	55.0	70.0	125.0
30Jul1985	55.0	70.0	125.0
31Jul1985	55.0	70.0	125.0
01Aug1985	70.0	70.0	140.0
02Aug1985	70.0	70.0	140.0
03Aug1985	70.0	70.0	140.0
04Aug1985	70.0	70.0	140.0
05Aug1985	70.0	70.0	140.0
06Aug1985	70.0	70.0	140.0
07Aug1985	70.0	70.0	140.0

08Aug1985	70.0	70.0	140.0
09Aug1985	70.0	70.0	140.0
10Aug1985	70.0	70.0	140.0
11Aug1985	70.0	70.0	140.0
12Aug1985	70.0	70.0	140.0
13Aug1985	70.0	70.0	140.0
14Aug1985	70.0	70.0	140.0
15Aug1985	70.0	70.0	140.0
16Aug1985	70.0	70.0	140.0
17Aug1985	70.0	70.0	140.0
18Aug1985	70.0	70.0	140.0
19Aug1985	70.0	70.0	140.0
20Aug1985	70.0	70.0	140.0
21Aug1985	70.0	70.0	140.0
22Aug1985	70.0	70.0	140.0
23Aug1985	70.0	70.0	140.0
24Aug1985	70.0	70.0	140.0
25Aug1985	70.0	70.0	140.0
26Aug1985	70.0	70.0	140.0
27Aug1985	70.0	70.0	140.0
28Aug1985	70.0	70.0	140.0
29Aug1985	70.0	70.0	140.0
30Aug1985	70.0	70.0	140.0
31Aug1985	70.0	70.0	140.0
01Sep1985	65.0	70.0	135.0
02Sep1985	65.0	70.3	135.3
03Sep1985	65.0	70.7	135.7
04Sep1985	65.0	71.0	136.0
05Sep1985	65.0	71.3	136.3
06Sep1985	65.0	71.7	136.7
07Sep1985	65.0	72.0	137.0
08Sep1985	65.0	72.3	137.3
09Sep1985	65.0	72.7	137.7
10Sep1985	65.0	73.0	138.0
11Sep1985	65.0	73.3	138.3
12Sep1985	65.0	73.7	138.7
13Sep1985	65.0	74.0	139.0
14Sep1985	65.0	74.3	139.3
15Sep1985	65.0	74.7	139.7
16Sep1985	65.0	75.0	140.0
17Sep1985	65.0	75.3	140.3
18Sep1985	65.0	75.7	140.7
19Sep1985	65.0	76.0	141.0
20Sep1985	65.0	76.3	141.3
21Sep1985	65.0	76.7	141.7
22Sep1985	65.0	77.0	142.0
23Sep1985	65.0	77.3	142.3
24Sep1985	65.0	77.7	142.7
25Sep1985	65.0	78.0	143.0
26Sep1985	65.0	78.3	143.3
27Sep1985	65.0	78.7	143.7
28Sep1985	65.0	79.0	144.0
29Sep1985	65.0	79.3	144.3
30Sep1985	65.0	79.7	144.7
01Oct1985	30.0	80.0	110.0
02Oct1985	30.0	80.0	110.0

03Oct1985	30.0	80.0	110.0
04Oct1985	30.0	80.0	110.0
05Oct1985	30.0	80.0	110.0
06Oct1985	30.0	80.0	110.0
07Oct1985	30.0	80.0	110.0
08Oct1985	30.0	80.0	110.0
09Oct1985	30.0	80.0	110.0
10Oct1985	30.0	80.0	110.0
11Oct1985	30.0	80.0	110.0
12Oct1985	30.0	80.0	110.0
13Oct1985	30.0	80.0	110.0
14Oct1985	30.0	80.0	110.0
15Oct1985	30.0	80.0	110.0
16Oct1985	30.0	80.0	110.0
17Oct1985	30.0	80.0	110.0
18Oct1985	30.0	80.0	110.0
19Oct1985	30.0	80.0	110.0
20Oct1985	30.0	80.0	110.0
21Oct1985	30.0	80.0	110.0
22Oct1985	30.0	80.0	110.0
23Oct1985	30.0	80.0	110.0
24Oct1985	30.0	80.0	110.0
25Oct1985	30.0	80.0	110.0
26Oct1985	30.0	80.0	110.0
27Oct1985	30.0	80.0	110.0
28Oct1985	30.0	80.0	110.0
29Oct1985	30.0	80.0	110.0
30Oct1985	30.0	80.0	110.0
31Oct1985	30.0	80.0	110.0
01Nov1985	3.0	80.0	83.0
02Nov1985	3.0	80.0	83.0
03Nov1985	3.0	80.0	83.0
04Nov1985	3.0	80.0	83.0
05Nov1985	3.0	80.0	83.0
06Nov1985	3.0	80.0	83.0
07Nov1985	3.0	80.0	83.0
08Nov1985	3.0	80.0	83.0
09Nov1985	3.0	80.0	83.0
10Nov1985	3.0	80.0	83.0
11Nov1985	3.0	80.0	83.0
12Nov1985	3.0	80.0	83.0
13Nov1985	3.0	80.0	83.0
14Nov1985	3.0	80.0	83.0
15Nov1985	3.0	80.0	83.0
16Nov1985	3.0	80.0	83.0
17Nov1985	3.0	80.0	83.0
18Nov1985	3.0	80.0	83.0
19Nov1985	3.0	80.0	83.0
20Nov1985	3.0	80.0	83.0
21Nov1985	3.0	80.0	83.0
22Nov1985	3.0	80.0	83.0
23Nov1985	3.0	80.0	83.0
24Nov1985	3.0	80.0	83.0
25Nov1985	3.0	80.0	83.0
26Nov1985	3.0	80.0	83.0
27Nov1985	3.0	80.0	83.0

28Nov1985	3.0	80.0	83.0
29Nov1985	3.0	80.0	83.0
30Nov1985	3.0	80.0	83.0
01Dec1985	1.0	80.0	81.0
02Dec1985	1.0	80.0	81.0
03Dec1985	1.0	80.0	81.0
04Dec1985	1.0	80.0	81.0
05Dec1985	1.0	80.0	81.0
06Dec1985	1.0	80.0	81.0
07Dec1985	1.0	80.0	81.0
08Dec1985	1.0	80.0	81.0
09Dec1985	1.0	80.0	81.0
10Dec1985	1.0	80.0	81.0
11Dec1985	1.0	80.0	81.0
12Dec1985	1.0	80.0	81.0
13Dec1985	1.0	80.0	81.0
14Dec1985	1.0	80.0	81.0
15Dec1985	1.0	80.0	81.0
16Dec1985	1.0	80.0	81.0
17Dec1985	1.0	80.0	81.0
18Dec1985	1.0	80.0	81.0
19Dec1985	1.0	80.0	81.0
20Dec1985	1.0	80.0	81.0
21Dec1985	1.0	80.0	81.0
22Dec1985	1.0	80.0	81.0
23Dec1985	1.0	80.0	81.0
24Dec1985	1.0	80.0	81.0
25Dec1985	1.0	80.0	81.0
26Dec1985	1.0	80.0	81.0
27Dec1985	1.0	80.0	81.0
28Dec1985	1.0	80.0	81.0
29Dec1985	1.0	80.0	81.0
30Dec1985	1.0	80.0	81.0
31Dec1985	1.0	80.0	81.0
01Jan1986	10.0	80.0	90.0
02Jan1986	10.0	80.6	90.6
03Jan1986	10.0	81.3	91.3
04Jan1986	10.0	81.9	91.9
05Jan1986	10.0	82.6	92.6
06Jan1986	10.0	83.2	93.2
07Jan1986	10.0	83.9	93.9
08Jan1986	10.0	84.5	94.5
09Jan1986	10.0	85.2	95.2
10Jan1986	10.0	85.8	95.8
11Jan1986	10.0	86.5	96.5
12Jan1986	10.0	87.1	97.1
13Jan1986	10.0	87.7	97.7
14Jan1986	10.0	88.4	98.4
15Jan1986	10.0	89.0	99.0
16Jan1986	10.0	89.7	99.7
17Jan1986	10.0	90.3	100.3
18Jan1986	10.0	91.0	101.0
19Jan1986	10.0	91.6	101.6
20Jan1986	10.0	92.3	102.3
21Jan1986	10.0	92.9	102.9
22Jan1986	10.0	93.5	103.5

23Jan1986	10.0	94.2	104.2
24Jan1986	10.0	94.8	104.8
25Jan1986	10.0	95.5	105.5
26Jan1986	10.0	96.1	106.1
27Jan1986	10.0	96.8	106.8
28Jan1986	10.0	97.4	107.4
29Jan1986	10.0	98.1	108.1
30Jan1986	10.0	98.7	108.7
31Jan1986	47.0	99.4	146.4
01Feb1986	139.0	100.0	239.0
02Feb1986	199.0	108.7	307.7
03Feb1986	106.0	100.0	206.0
04Feb1986	513.0	280.3	793.3
05Feb1986	295.0	161.2	456.2
06Feb1986	139.0	100.0	239.0
07Feb1986	94.0	100.0	194.0
08Feb1986	77.0	100.0	177.0
09Feb1986	68.0	100.0	168.0
10Feb1986	68.0	100.0	168.0
11Feb1986	66.0	100.0	166.0
12Feb1986	67.0	100.0	167.0
13Feb1986	554.0	302.7	856.7
14Feb1986	518.0	283.0	801.0
15Feb1986	541.0	295.6	836.6
16Feb1986	669.0	365.5	1034.5
17Feb1986	2330.0	1273.1	3603.1
18Feb1986	3430.0	1874.2	5304.2
19Feb1986	2500.0	1366.0	3866.0
20Feb1986	1660.0	907.0	2567.0
21Feb1986	470.0	256.8	726.8
22Feb1986	268.0	146.4	414.4
23Feb1986	177.0	100.0	277.0
24Feb1986	119.0	100.0	219.0
25Feb1986	94.0	100.0	194.0
26Feb1986	81.0	100.0	181.0
27Feb1986	70.0	100.0	170.0
28Feb1986	60.0	100.0	160.0
01Mar1986	56.0	100.0	156.0
02Mar1986	46.0	100.0	146.0
03Mar1986	44.0	100.0	144.0
04Mar1986	39.0	100.0	139.0
05Mar1986	38.0	100.0	138.0
06Mar1986	38.0	100.0	138.0
07Mar1986	35.0	100.0	135.0
08Mar1986	217.0	118.6	335.6
09Mar1986	1560.0	852.4	2412.4
10Mar1986	372.0	203.3	575.3
11Mar1986	1470.0	803.2	2273.2
12Mar1986	1170.0	639.3	1809.3
13Mar1986	1010.0	551.9	1561.9
14Mar1986	1010.0	551.9	1561.9
15Mar1986	437.0	238.8	675.8
16Mar1986	1800.0	983.5	2783.5
17Mar1986	705.0	385.2	1090.2
18Mar1986	331.0	180.9	511.9
19Mar1986	208.0	113.7	321.7

20Mar1986	150.0	100.0	250.0
21Mar1986	116.0	100.0	216.0
22Mar1986	95.0	100.0	195.0
23Mar1986	76.0	100.0	176.0
24Mar1986	68.0	100.0	168.0
25Mar1986	60.0	100.0	160.0
26Mar1986	66.0	100.0	166.0
27Mar1986	123.0	100.0	223.0
28Mar1986	56.0	100.0	156.0
29Mar1986	52.0	100.0	152.0
30Mar1986	49.0	100.0	149.0
31Mar1986	47.0	100.0	147.0
01Apr1986	44.0	100.0	144.0
02Apr1986	41.0	99.0	140.0
03Apr1986	40.0	98.0	138.0
04Apr1986	40.0	97.0	137.0
05Apr1986	40.0	96.0	136.0
06Apr1986	40.0	95.0	135.0
07Apr1986	40.0	94.0	134.0
08Apr1986	40.0	93.0	133.0
09Apr1986	40.0	92.0	132.0
10Apr1986	40.0	91.0	131.0
11Apr1986	40.0	90.0	130.0
12Apr1986	40.0	89.0	129.0
13Apr1986	40.0	88.0	128.0
14Apr1986	40.0	87.0	127.0
15Apr1986	40.0	86.0	126.0
16Apr1986	40.0	85.0	125.0
17Apr1986	40.0	84.0	124.0
18Apr1986	40.0	83.0	123.0
19Apr1986	40.0	82.0	122.0
20Apr1986	40.0	81.0	121.0
21Apr1986	40.0	80.0	120.0
22Apr1986	40.0	79.0	119.0
23Apr1986	40.0	78.0	118.0
24Apr1986	40.0	77.0	117.0
25Apr1986	40.0	76.0	116.0
26Apr1986	40.0	75.0	115.0
27Apr1986	40.0	74.0	114.0
28Apr1986	40.0	73.0	113.0
29Apr1986	40.0	72.0	112.0
30Apr1986	40.0	71.0	111.0
01May1986	45.0	70.0	115.0
02May1986	45.0	70.0	115.0
03May1986	45.0	70.0	115.0
04May1986	45.0	70.0	115.0
05May1986	45.0	70.0	115.0
06May1986	45.0	70.0	115.0
07May1986	45.0	70.0	115.0
08May1986	45.0	70.0	115.0
09May1986	45.0	70.0	115.0
10May1986	45.0	70.0	115.0
11May1986	45.0	70.0	115.0
12May1986	45.0	70.0	115.0
13May1986	45.0	70.0	115.0
14May1986	45.0	70.0	115.0

15May1986	45.0	70.0	115.0
16May1986	45.0	70.0	115.0
17May1986	45.0	70.0	115.0
18May1986	45.0	70.0	115.0
19May1986	45.0	70.0	115.0
20May1986	45.0	70.0	115.0
21May1986	45.0	70.0	115.0
22May1986	45.0	70.0	115.0
23May1986	45.0	70.0	115.0
24May1986	45.0	70.0	115.0
25May1986	45.0	70.0	115.0
26May1986	45.0	70.0	115.0
27May1986	45.0	70.0	115.0
28May1986	45.0	70.0	115.0
29May1986	45.0	70.0	115.0
30May1986	45.0	70.0	115.0
31May1986	45.0	70.0	115.0
01Jun1986	50.0	70.0	120.0
02Jun1986	50.0	70.0	120.0
03Jun1986	50.0	70.0	120.0
04Jun1986	50.0	70.0	120.0
05Jun1986	50.0	70.0	120.0
06Jun1986	50.0	70.0	120.0
07Jun1986	50.0	70.0	120.0
08Jun1986	50.0	70.0	120.0
09Jun1986	50.0	70.0	120.0
10Jun1986	50.0	70.0	120.0
11Jun1986	50.0	70.0	120.0
12Jun1986	50.0	70.0	120.0
13Jun1986	50.0	70.0	120.0
14Jun1986	50.0	70.0	120.0
15Jun1986	50.0	70.0	120.0
16Jun1986	50.0	70.0	120.0
17Jun1986	50.0	70.0	120.0
18Jun1986	50.0	70.0	120.0
19Jun1986	50.0	70.0	120.0
20Jun1986	50.0	70.0	120.0
21Jun1986	50.0	70.0	120.0
22Jun1986	50.0	70.0	120.0
23Jun1986	50.0	70.0	120.0
24Jun1986	50.0	70.0	120.0
25Jun1986	50.0	70.0	120.0
26Jun1986	50.0	70.0	120.0
27Jun1986	50.0	70.0	120.0
28Jun1986	50.0	70.0	120.0
29Jun1986	50.0	70.0	120.0
30Jun1986	50.0	70.0	120.0
01Jul1986	55.0	70.0	125.0
02Jul1986	55.0	70.0	125.0
03Jul1986	55.0	70.0	125.0
04Jul1986	55.0	70.0	125.0
05Jul1986	55.0	70.0	125.0
06Jul1986	55.0	70.0	125.0
07Jul1986	55.0	70.0	125.0
08Jul1986	55.0	70.0	125.0
09Jul1986	55.0	70.0	125.0

10Jul1986	55.0	70.0	125.0
11Jul1986	55.0	70.0	125.0
12Jul1986	55.0	70.0	125.0
13Jul1986	55.0	70.0	125.0
14Jul1986	55.0	70.0	125.0
15Jul1986	55.0	70.0	125.0
16Jul1986	55.0	70.0	125.0
17Jul1986	55.0	70.0	125.0
18Jul1986	55.0	70.0	125.0
19Jul1986	55.0	70.0	125.0
20Jul1986	55.0	70.0	125.0
21Jul1986	55.0	70.0	125.0
22Jul1986	55.0	70.0	125.0
23Jul1986	55.0	70.0	125.0
24Jul1986	55.0	70.0	125.0
25Jul1986	55.0	70.0	125.0
26Jul1986	55.0	70.0	125.0
27Jul1986	55.0	70.0	125.0
28Jul1986	55.0	70.0	125.0
29Jul1986	55.0	70.0	125.0
30Jul1986	55.0	70.0	125.0
31Jul1986	55.0	70.0	125.0
01Aug1986	70.0	70.0	140.0
02Aug1986	70.0	70.0	140.0
03Aug1986	70.0	70.0	140.0
04Aug1986	70.0	70.0	140.0
05Aug1986	70.0	70.0	140.0
06Aug1986	70.0	70.0	140.0
07Aug1986	70.0	70.0	140.0
08Aug1986	70.0	70.0	140.0
09Aug1986	70.0	70.0	140.0
10Aug1986	70.0	70.0	140.0
11Aug1986	70.0	70.0	140.0
12Aug1986	70.0	70.0	140.0
13Aug1986	70.0	70.0	140.0
14Aug1986	70.0	70.0	140.0
15Aug1986	70.0	70.0	140.0
16Aug1986	70.0	70.0	140.0
17Aug1986	70.0	70.0	140.0
18Aug1986	70.0	70.0	140.0
19Aug1986	70.0	70.0	140.0
20Aug1986	70.0	70.0	140.0
21Aug1986	70.0	70.0	140.0
22Aug1986	70.0	70.0	140.0
23Aug1986	70.0	70.0	140.0
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30Aug1986	70.0	70.0	140.0
31Aug1986	70.0	70.0	140.0
01Sep1986	65.0	70.0	135.0
02Sep1986	65.0	70.3	135.3
03Sep1986	65.0	70.7	135.7

04Sep1986	65.0	71.0	136.0
05Sep1986	65.0	71.3	136.3
06Sep1986	65.0	71.7	136.7
07Sep1986	65.0	72.0	137.0
08Sep1986	65.0	72.3	137.3
09Sep1986	65.0	72.7	137.7
10Sep1986	65.0	73.0	138.0
11Sep1986	65.0	73.3	138.3
12Sep1986	65.0	73.7	138.7
13Sep1986	65.0	74.0	139.0
14Sep1986	65.0	74.3	139.3
15Sep1986	65.0	74.7	139.7
16Sep1986	65.0	75.0	140.0
17Sep1986	65.0	75.3	140.3
18Sep1986	65.0	75.7	140.7
19Sep1986	65.0	76.0	141.0
20Sep1986	65.0	76.3	141.3
21Sep1986	65.0	76.7	141.7
22Sep1986	65.0	77.0	142.0
23Sep1986	65.0	77.3	142.3
24Sep1986	65.0	77.7	142.7
25Sep1986	65.0	78.0	143.0
26Sep1986	65.0	78.3	143.3
27Sep1986	65.0	78.7	143.7
28Sep1986	65.0	79.0	144.0
29Sep1986	65.0	79.3	144.3
30Sep1986	65.0	79.7	144.7
01Oct1986	30.0	80.0	110.0
02Oct1986	30.0	80.0	110.0
03Oct1986	30.0	80.0	110.0
04Oct1986	30.0	80.0	110.0
05Oct1986	30.0	80.0	110.0
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26Oct1986	30.0	80.0	110.0
27Oct1986	30.0	80.0	110.0
28Oct1986	30.0	80.0	110.0
29Oct1986	30.0	80.0	110.0

30Oct1986	30.0	80.0	110.0
31Oct1986	30.0	80.0	110.0
01Nov1986	3.0	80.0	83.0
02Nov1986	3.0	80.0	83.0
03Nov1986	3.0	80.0	83.0
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17Nov1986	3.0	80.0	83.0
18Nov1986	3.0	80.0	83.0
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20Nov1986	3.0	80.0	83.0
21Nov1986	3.0	80.0	83.0
22Nov1986	3.0	80.0	83.0
23Nov1986	3.0	80.0	83.0
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26Nov1986	3.0	80.0	83.0
27Nov1986	3.0	80.0	83.0
28Nov1986	3.0	80.0	83.0
29Nov1986	3.0	80.0	83.0
30Nov1986	3.0	80.0	83.0
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02Dec1986	1.0	80.0	81.0
03Dec1986	1.0	80.0	81.0
04Dec1986	1.0	80.0	81.0
05Dec1986	1.0	80.0	81.0
06Dec1986	1.0	80.0	81.0
07Dec1986	1.0	80.0	81.0
08Dec1986	1.0	80.0	81.0
09Dec1986	1.0	80.0	81.0
10Dec1986	1.0	80.0	81.0
11Dec1986	1.0	80.0	81.0
12Dec1986	1.0	80.0	81.0
13Dec1986	1.0	80.0	81.0
14Dec1986	1.0	80.0	81.0
15Dec1986	1.0	80.0	81.0
16Dec1986	1.0	80.0	81.0
17Dec1986	1.0	80.0	81.0
18Dec1986	1.0	80.0	81.0
19Dec1986	1.0	80.0	81.0
20Dec1986	1.0	80.0	81.0
21Dec1986	1.0	80.0	81.0
22Dec1986	1.0	80.0	81.0
23Dec1986	1.0	80.0	81.0
24Dec1986	1.0	80.0	81.0

25Dec1986	1.0	80.0	81.0
26Dec1986	1.0	80.0	81.0
27Dec1986	1.0	80.0	81.0
28Dec1986	1.0	80.0	81.0
29Dec1986	1.0	80.0	81.0
30Dec1986	1.0	80.0	81.0
31Dec1986	1.0	80.0	81.0
01Jan1987	10.0	80.0	90.0
02Jan1987	10.0	80.6	90.6
03Jan1987	10.0	81.3	91.3
04Jan1987	10.0	81.9	91.9
05Jan1987	10.0	82.6	92.6
06Jan1987	10.0	83.2	93.2
07Jan1987	10.0	83.9	93.9
08Jan1987	10.0	84.5	94.5
09Jan1987	10.0	85.2	95.2
10Jan1987	10.0	85.8	95.8
11Jan1987	10.0	86.5	96.5
12Jan1987	10.0	87.1	97.1
13Jan1987	10.0	87.7	97.7
14Jan1987	10.0	88.4	98.4
15Jan1987	10.0	89.0	99.0
16Jan1987	10.0	89.7	99.7
17Jan1987	10.0	90.3	100.3
18Jan1987	10.0	91.0	101.0
19Jan1987	10.0	91.6	101.6
20Jan1987	10.0	92.3	102.3
21Jan1987	10.0	92.9	102.9
22Jan1987	10.0	93.5	103.5
23Jan1987	10.0	94.2	104.2
24Jan1987	10.0	94.8	104.8
25Jan1987	10.0	95.5	105.5
26Jan1987	10.0	96.1	106.1
27Jan1987	10.0	96.8	106.8
28Jan1987	10.0	97.4	107.4
29Jan1987	10.0	98.1	108.1
30Jan1987	10.0	98.7	108.7
31Jan1987	10.0	99.4	109.4
01Feb1987	30.0	100.0	130.0
02Feb1987	30.0	100.0	130.0
03Feb1987	30.0	100.0	130.0
04Feb1987	30.0	100.0	130.0
05Feb1987	30.0	100.0	130.0
06Feb1987	30.0	100.0	130.0
07Feb1987	30.0	100.0	130.0
08Feb1987	30.0	100.0	130.0
09Feb1987	30.0	100.0	130.0
10Feb1987	30.0	100.0	130.0
11Feb1987	30.0	100.0	130.0
12Feb1987	66.0	100.0	166.0
13Feb1987	185.0	101.1	286.1
14Feb1987	777.0	424.6	1201.6
15Feb1987	306.0	167.2	473.2
16Feb1987	147.0	100.0	247.0
17Feb1987	141.0	100.0	241.0
18Feb1987	47.0	100.0	147.0

19Feb1987	30.0	100.0	130.0
20Feb1987	30.0	100.0	130.0
21Feb1987	30.0	100.0	130.0
22Feb1987	30.0	100.0	130.0
23Feb1987	30.0	100.0	130.0
24Feb1987	30.0	100.0	130.0
25Feb1987	30.0	100.0	130.0
26Feb1987	30.0	100.0	130.0
27Feb1987	30.0	100.0	130.0
28Feb1987	30.0	100.0	130.0
01Mar1987	30.0	100.0	130.0
02Mar1987	30.0	100.0	130.0
03Mar1987	30.0	100.0	130.0
04Mar1987	65.0	100.0	165.0
05Mar1987	257.0	140.4	397.4
06Mar1987	2340.0	1278.6	3618.6
07Mar1987	721.0	394.0	1115.0
08Mar1987	262.0	143.2	405.2
09Mar1987	164.0	100.0	264.0
10Mar1987	125.0	100.0	225.0
11Mar1987	101.0	100.0	201.0
12Mar1987	82.0	100.0	182.0
13Mar1987	69.0	100.0	169.0
14Mar1987	61.0	100.0	161.0
15Mar1987	76.0	100.0	176.0
16Mar1987	127.0	100.0	227.0
17Mar1987	79.0	100.0	179.0
18Mar1987	56.0	100.0	156.0
19Mar1987	44.0	100.0	144.0
20Mar1987	39.0	100.0	139.0
21Mar1987	30.0	100.0	130.0
22Mar1987	25.0	100.0	125.0
23Mar1987	58.0	100.0	158.0
24Mar1987	91.0	100.0	191.0
25Mar1987	121.0	100.0	221.0
26Mar1987	72.0	100.0	172.0
27Mar1987	50.0	100.0	150.0
28Mar1987	37.0	100.0	137.0
29Mar1987	30.0	100.0	130.0
30Mar1987	30.0	100.0	130.0
31Mar1987	30.0	100.0	130.0
01Apr1987	40.0	100.0	140.0
02Apr1987	40.0	99.0	139.0
03Apr1987	40.0	98.0	138.0
04Apr1987	40.0	97.0	137.0
05Apr1987	40.0	96.0	136.0
06Apr1987	40.0	95.0	135.0
07Apr1987	40.0	94.0	134.0
08Apr1987	40.0	93.0	133.0
09Apr1987	40.0	92.0	132.0
10Apr1987	40.0	91.0	131.0
11Apr1987	40.0	90.0	130.0
12Apr1987	40.0	89.0	129.0
13Apr1987	40.0	88.0	128.0
14Apr1987	40.0	87.0	127.0
15Apr1987	40.0	86.0	126.0

16Apr1987	40.0	85.0	125.0
17Apr1987	40.0	84.0	124.0
18Apr1987	40.0	83.0	123.0
19Apr1987	40.0	82.0	122.0
20Apr1987	40.0	81.0	121.0
21Apr1987	40.0	80.0	120.0
22Apr1987	40.0	79.0	119.0
23Apr1987	40.0	78.0	118.0
24Apr1987	40.0	77.0	117.0
25Apr1987	40.0	76.0	116.0
26Apr1987	40.0	75.0	115.0
27Apr1987	40.0	74.0	114.0
28Apr1987	40.0	73.0	113.0
29Apr1987	40.0	72.0	112.0
30Apr1987	40.0	71.0	111.0
01May1987	45.0	70.0	115.0
02May1987	45.0	70.0	115.0
03May1987	45.0	70.0	115.0
04May1987	45.0	70.0	115.0
05May1987	45.0	70.0	115.0
06May1987	45.0	70.0	115.0
07May1987	45.0	70.0	115.0
08May1987	45.0	70.0	115.0
09May1987	45.0	70.0	115.0
10May1987	45.0	70.0	115.0
11May1987	45.0	70.0	115.0
12May1987	45.0	70.0	115.0
13May1987	45.0	70.0	115.0
14May1987	45.0	70.0	115.0
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31May1987	45.0	70.0	115.0
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02Jun1987	50.0	70.0	120.0
03Jun1987	50.0	70.0	120.0
04Jun1987	50.0	70.0	120.0
05Jun1987	50.0	70.0	120.0
06Jun1987	50.0	70.0	120.0
07Jun1987	50.0	70.0	120.0
08Jun1987	50.0	70.0	120.0
09Jun1987	50.0	70.0	120.0
10Jun1987	50.0	70.0	120.0

11Jun1987	50.0	70.0	120.0
12Jun1987	50.0	70.0	120.0
13Jun1987	50.0	70.0	120.0
14Jun1987	50.0	70.0	120.0
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16Jun1987	50.0	70.0	120.0
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18Jun1987	50.0	70.0	120.0
19Jun1987	50.0	70.0	120.0
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21Jun1987	50.0	70.0	120.0
22Jun1987	50.0	70.0	120.0
23Jun1987	50.0	70.0	120.0
24Jun1987	50.0	70.0	120.0
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03Jul1987	55.0	70.0	125.0
04Jul1987	55.0	70.0	125.0
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06Jul1987	55.0	70.0	125.0
07Jul1987	55.0	70.0	125.0
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02Aug1987	70.0	70.0	140.0
03Aug1987	70.0	70.0	140.0
04Aug1987	70.0	70.0	140.0
05Aug1987	70.0	70.0	140.0

06Aug1987	70.0	70.0	140.0
07Aug1987	70.0	70.0	140.0
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09Aug1987	70.0	70.0	140.0
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26Aug1987	70.0	70.0	140.0
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02Sep1987	65.0	70.3	135.3
03Sep1987	65.0	70.7	135.7
04Sep1987	65.0	71.0	136.0
05Sep1987	65.0	71.3	136.3
06Sep1987	65.0	71.7	136.7
07Sep1987	65.0	72.0	137.0
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09Sep1987	65.0	72.7	137.7
10Sep1987	65.0	73.0	138.0
11Sep1987	65.0	73.3	138.3
12Sep1987	65.0	73.7	138.7
13Sep1987	65.0	74.0	139.0
14Sep1987	65.0	74.3	139.3
15Sep1987	65.0	74.7	139.7
16Sep1987	65.0	75.0	140.0
17Sep1987	65.0	75.3	140.3
18Sep1987	65.0	75.7	140.7
19Sep1987	65.0	76.0	141.0
20Sep1987	65.0	76.3	141.3
21Sep1987	65.0	76.7	141.7
22Sep1987	65.0	77.0	142.0
23Sep1987	65.0	77.3	142.3
24Sep1987	65.0	77.7	142.7
25Sep1987	65.0	78.0	143.0
26Sep1987	65.0	78.3	143.3
27Sep1987	65.0	78.7	143.7
28Sep1987	65.0	79.0	144.0
29Sep1987	65.0	79.3	144.3
30Sep1987	65.0	79.7	144.7

01Oct1987	30.0	80.0	110.0
02Oct1987	30.0	80.0	110.0
03Oct1987	30.0	80.0	110.0
04Oct1987	30.0	80.0	110.0
05Oct1987	30.0	80.0	110.0
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07Oct1987	30.0	80.0	110.0
08Oct1987	30.0	80.0	110.0
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16Oct1987	30.0	80.0	110.0
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19Oct1987	30.0	80.0	110.0
20Oct1987	30.0	80.0	110.0
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22Oct1987	30.0	80.0	110.0
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29Oct1987	30.0	80.0	110.0
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31Oct1987	30.0	80.0	110.0
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07Nov1987	3.0	80.0	83.0
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09Nov1987	3.0	80.0	83.0
10Nov1987	3.0	80.0	83.0
11Nov1987	3.0	80.0	83.0
12Nov1987	3.0	80.0	83.0
13Nov1987	3.0	80.0	83.0
14Nov1987	3.0	80.0	83.0
15Nov1987	3.0	80.0	83.0
16Nov1987	3.0	80.0	83.0
17Nov1987	3.0	80.0	83.0
18Nov1987	3.0	80.0	83.0
19Nov1987	3.0	80.0	83.0
20Nov1987	3.0	80.0	83.0
21Nov1987	3.0	80.0	83.0
22Nov1987	3.0	80.0	83.0
23Nov1987	3.0	80.0	83.0
24Nov1987	3.0	80.0	83.0
25Nov1987	3.0	80.0	83.0

26Nov1987	3.0	80.0	83.0
27Nov1987	3.0	80.0	83.0
28Nov1987	3.0	80.0	83.0
29Nov1987	3.0	80.0	83.0
30Nov1987	3.0	80.0	83.0
01Dec1987	1.0	80.0	81.0
02Dec1987	1.0	80.0	81.0
03Dec1987	1.0	80.0	81.0
04Dec1987	1.0	80.0	81.0
05Dec1987	1.0	80.0	81.0
06Dec1987	1.0	80.0	81.0
07Dec1987	1.0	80.0	81.0
08Dec1987	1.0	80.0	81.0
09Dec1987	1.0	80.0	81.0
10Dec1987	1.0	80.0	81.0
11Dec1987	1.0	80.0	81.0
12Dec1987	1.0	80.0	81.0
13Dec1987	1.0	80.0	81.0
14Dec1987	1.0	80.0	81.0
15Dec1987	1.0	80.0	81.0
16Dec1987	1.0	80.0	81.0
17Dec1987	1.0	80.0	81.0
18Dec1987	1.0	80.0	81.0
19Dec1987	1.0	80.0	81.0
20Dec1987	1.0	80.0	81.0
21Dec1987	1.0	80.0	81.0
22Dec1987	1.0	80.0	81.0
23Dec1987	1.0	80.0	81.0
24Dec1987	1.0	80.0	81.0
25Dec1987	1.0	80.0	81.0
26Dec1987	1.0	80.0	81.0
27Dec1987	1.0	80.0	81.0
28Dec1987	1.0	80.0	81.0
29Dec1987	1.0	80.0	81.0
30Dec1987	1.0	80.0	81.0
31Dec1987	1.0	80.0	81.0
01Jan1988	10.0	80.0	90.0
02Jan1988	10.0	80.6	90.6
03Jan1988	10.0	81.3	91.3
04Jan1988	10.0	81.9	91.9
05Jan1988	10.0	82.6	92.6
06Jan1988	10.0	83.2	93.2
07Jan1988	10.0	83.9	93.9
08Jan1988	10.0	84.5	94.5
09Jan1988	10.0	85.2	95.2
10Jan1988	10.0	85.8	95.8
11Jan1988	10.0	86.5	96.5
12Jan1988	10.0	87.1	97.1
13Jan1988	10.0	87.7	97.7
14Jan1988	10.0	88.4	98.4
15Jan1988	10.0	89.0	99.0
16Jan1988	10.0	89.7	99.7
17Jan1988	72.0	90.3	162.3
18Jan1988	672.0	367.2	1039.2
19Jan1988	218.0	119.1	337.1
20Jan1988	87.0	92.3	179.3

21Jan1988	45.0	92.9	137.9
22Jan1988	29.0	93.5	122.5
23Jan1988	20.0	94.2	114.2
24Jan1988	14.0	94.8	108.8
25Jan1988	10.0	95.5	105.5
26Jan1988	10.0	96.1	106.1
27Jan1988	10.0	96.8	106.8
28Jan1988	10.0	97.4	107.4
29Jan1988	10.0	98.1	108.1
30Jan1988	10.0	98.7	108.7
31Jan1988	10.0	99.4	109.4
01Feb1988	30.0	100.0	130.0
02Feb1988	30.0	100.0	130.0
03Feb1988	30.0	100.0	130.0
04Feb1988	30.0	100.0	130.0
05Feb1988	30.0	100.0	130.0
06Feb1988	30.0	100.0	130.0
07Feb1988	30.0	100.0	130.0
08Feb1988	30.0	100.0	130.0
09Feb1988	30.0	100.0	130.0
10Feb1988	30.0	100.0	130.0
11Feb1988	30.0	100.0	130.0
12Feb1988	30.0	100.0	130.0
13Feb1988	30.0	100.0	130.0
14Feb1988	30.0	100.0	130.0
15Feb1988	30.0	100.0	130.0
16Feb1988	30.0	100.0	130.0
17Feb1988	30.0	100.0	130.0
18Feb1988	30.0	100.0	130.0
19Feb1988	30.0	100.0	130.0
20Feb1988	30.0	100.0	130.0
21Feb1988	30.0	100.0	130.0
22Feb1988	30.0	100.0	130.0
23Feb1988	30.0	100.0	130.0
24Feb1988	30.0	100.0	130.0
25Feb1988	30.0	100.0	130.0
26Feb1988	30.0	100.0	130.0
27Feb1988	30.0	100.0	130.0
28Feb1988	30.0	100.0	130.0
29Feb1988	30.0	100.0	130.0
01Mar1988	30.0	100.0	130.0
02Mar1988	30.0	100.0	130.0
03Mar1988	30.0	100.0	130.0
04Mar1988	30.0	100.0	130.0
05Mar1988	30.0	100.0	130.0
06Mar1988	30.0	100.0	130.0
07Mar1988	30.0	100.0	130.0
08Mar1988	30.0	100.0	130.0
09Mar1988	30.0	100.0	130.0
10Mar1988	30.0	100.0	130.0
11Mar1988	30.0	100.0	130.0
12Mar1988	30.0	100.0	130.0
13Mar1988	30.0	100.0	130.0
14Mar1988	30.0	100.0	130.0
15Mar1988	30.0	100.0	130.0
16Mar1988	30.0	100.0	130.0

17Mar1988	30.0	100.0	130.0
18Mar1988	30.0	100.0	130.0
19Mar1988	30.0	100.0	130.0
20Mar1988	30.0	100.0	130.0
21Mar1988	30.0	100.0	130.0
22Mar1988	30.0	100.0	130.0
23Mar1988	30.0	100.0	130.0
24Mar1988	30.0	100.0	130.0
25Mar1988	30.0	100.0	130.0
26Mar1988	30.0	100.0	130.0
27Mar1988	30.0	100.0	130.0
28Mar1988	30.0	100.0	130.0
29Mar1988	30.0	100.0	130.0
30Mar1988	30.0	100.0	130.0
31Mar1988	30.0	100.0	130.0
01Apr1988	40.0	100.0	140.0
02Apr1988	40.0	99.0	139.0
03Apr1988	40.0	98.0	138.0
04Apr1988	40.0	97.0	137.0
05Apr1988	40.0	96.0	136.0
06Apr1988	40.0	95.0	135.0
07Apr1988	40.0	94.0	134.0
08Apr1988	40.0	93.0	133.0
09Apr1988	40.0	92.0	132.0
10Apr1988	40.0	91.0	131.0
11Apr1988	40.0	90.0	130.0
12Apr1988	40.0	89.0	129.0
13Apr1988	40.0	88.0	128.0
14Apr1988	40.0	87.0	127.0
15Apr1988	40.0	86.0	126.0
16Apr1988	40.0	85.0	125.0
17Apr1988	40.0	84.0	124.0
18Apr1988	40.0	83.0	123.0
19Apr1988	40.0	82.0	122.0
20Apr1988	40.0	81.0	121.0
21Apr1988	40.0	80.0	120.0
22Apr1988	40.0	79.0	119.0
23Apr1988	40.0	78.0	118.0
24Apr1988	40.0	77.0	117.0
25Apr1988	40.0	76.0	116.0
26Apr1988	40.0	75.0	115.0
27Apr1988	40.0	74.0	114.0
28Apr1988	40.0	73.0	113.0
29Apr1988	40.0	72.0	112.0
30Apr1988	40.0	71.0	111.0
01May1988	45.0	70.0	115.0
02May1988	45.0	70.0	115.0
03May1988	45.0	70.0	115.0
04May1988	45.0	70.0	115.0
05May1988	45.0	70.0	115.0
06May1988	45.0	70.0	115.0
07May1988	45.0	70.0	115.0
08May1988	45.0	70.0	115.0
09May1988	45.0	70.0	115.0
10May1988	45.0	70.0	115.0
11May1988	45.0	70.0	115.0

12May1988	45.0	70.0	115.0
13May1988	45.0	70.0	115.0
14May1988	45.0	70.0	115.0
15May1988	45.0	70.0	115.0
16May1988	45.0	70.0	115.0
17May1988	45.0	70.0	115.0
18May1988	45.0	70.0	115.0
19May1988	45.0	70.0	115.0
20May1988	45.0	70.0	115.0
21May1988	45.0	70.0	115.0
22May1988	45.0	70.0	115.0
23May1988	45.0	70.0	115.0
24May1988	45.0	70.0	115.0
25May1988	45.0	70.0	115.0
26May1988	45.0	70.0	115.0
27May1988	45.0	70.0	115.0
28May1988	45.0	70.0	115.0
29May1988	45.0	70.0	115.0
30May1988	45.0	70.0	115.0
31May1988	45.0	70.0	115.0
01Jun1988	50.0	70.0	120.0
02Jun1988	50.0	70.0	120.0
03Jun1988	50.0	70.0	120.0
04Jun1988	50.0	70.0	120.0
05Jun1988	50.0	70.0	120.0
06Jun1988	50.0	70.0	120.0
07Jun1988	50.0	70.0	120.0
08Jun1988	50.0	70.0	120.0
09Jun1988	50.0	70.0	120.0
10Jun1988	50.0	70.0	120.0
11Jun1988	50.0	70.0	120.0
12Jun1988	50.0	70.0	120.0
13Jun1988	50.0	70.0	120.0
14Jun1988	50.0	70.0	120.0
15Jun1988	50.0	70.0	120.0
16Jun1988	50.0	70.0	120.0
17Jun1988	50.0	70.0	120.0
18Jun1988	50.0	70.0	120.0
19Jun1988	50.0	70.0	120.0
20Jun1988	50.0	70.0	120.0
21Jun1988	50.0	70.0	120.0
22Jun1988	50.0	70.0	120.0
23Jun1988	50.0	70.0	120.0
24Jun1988	50.0	70.0	120.0
25Jun1988	50.0	70.0	120.0
26Jun1988	50.0	70.0	120.0
27Jun1988	50.0	70.0	120.0
28Jun1988	50.0	70.0	120.0
29Jun1988	50.0	70.0	120.0
30Jun1988	50.0	70.0	120.0
01Jul1988	55.0	70.0	125.0
02Jul1988	55.0	70.0	125.0
03Jul1988	55.0	70.0	125.0
04Jul1988	55.0	70.0	125.0
05Jul1988	55.0	70.0	125.0
06Jul1988	55.0	70.0	125.0

07Jul1988	55.0	70.0	125.0
08Jul1988	55.0	70.0	125.0
09Jul1988	55.0	70.0	125.0
10Jul1988	55.0	70.0	125.0
11Jul1988	55.0	70.0	125.0
12Jul1988	55.0	70.0	125.0
13Jul1988	55.0	70.0	125.0
14Jul1988	55.0	70.0	125.0
15Jul1988	55.0	70.0	125.0
16Jul1988	55.0	70.0	125.0
17Jul1988	55.0	70.0	125.0
18Jul1988	55.0	70.0	125.0
19Jul1988	55.0	70.0	125.0
20Jul1988	55.0	70.0	125.0
21Jul1988	55.0	70.0	125.0
22Jul1988	55.0	70.0	125.0
23Jul1988	55.0	70.0	125.0
24Jul1988	55.0	70.0	125.0
25Jul1988	55.0	70.0	125.0
26Jul1988	55.0	70.0	125.0
27Jul1988	55.0	70.0	125.0
28Jul1988	55.0	70.0	125.0
29Jul1988	55.0	70.0	125.0
30Jul1988	55.0	70.0	125.0
31Jul1988	55.0	70.0	125.0
01Aug1988	70.0	70.0	140.0
02Aug1988	70.0	70.0	140.0
03Aug1988	70.0	70.0	140.0
04Aug1988	70.0	70.0	140.0
05Aug1988	70.0	70.0	140.0
06Aug1988	70.0	70.0	140.0
07Aug1988	70.0	70.0	140.0
08Aug1988	70.0	70.0	140.0
09Aug1988	70.0	70.0	140.0
10Aug1988	70.0	70.0	140.0
11Aug1988	70.0	70.0	140.0
12Aug1988	70.0	70.0	140.0
13Aug1988	70.0	70.0	140.0
14Aug1988	70.0	70.0	140.0
15Aug1988	70.0	70.0	140.0
16Aug1988	70.0	70.0	140.0
17Aug1988	70.0	70.0	140.0
18Aug1988	70.0	70.0	140.0
19Aug1988	70.0	70.0	140.0
20Aug1988	70.0	70.0	140.0
21Aug1988	70.0	70.0	140.0
22Aug1988	70.0	70.0	140.0
23Aug1988	70.0	70.0	140.0
24Aug1988	70.0	70.0	140.0
25Aug1988	70.0	70.0	140.0
26Aug1988	70.0	70.0	140.0
27Aug1988	70.0	70.0	140.0
28Aug1988	70.0	70.0	140.0
29Aug1988	70.0	70.0	140.0
30Aug1988	70.0	70.0	140.0
31Aug1988	70.0	70.0	140.0

01Sep1988	65.0	70.0	135.0
02Sep1988	65.0	70.3	135.3
03Sep1988	65.0	70.7	135.7
04Sep1988	65.0	71.0	136.0
05Sep1988	65.0	71.3	136.3
06Sep1988	65.0	71.7	136.7
07Sep1988	65.0	72.0	137.0
08Sep1988	65.0	72.3	137.3
09Sep1988	65.0	72.7	137.7
10Sep1988	65.0	73.0	138.0
11Sep1988	65.0	73.3	138.3
12Sep1988	65.0	73.7	138.7
13Sep1988	65.0	74.0	139.0
14Sep1988	65.0	74.3	139.3
15Sep1988	65.0	74.7	139.7
16Sep1988	65.0	75.0	140.0
17Sep1988	65.0	75.3	140.3
18Sep1988	65.0	75.7	140.7
19Sep1988	65.0	76.0	141.0
20Sep1988	65.0	76.3	141.3
21Sep1988	65.0	76.7	141.7
22Sep1988	65.0	77.0	142.0
23Sep1988	65.0	77.3	142.3
24Sep1988	65.0	77.7	142.7
25Sep1988	65.0	78.0	143.0
26Sep1988	65.0	78.3	143.3
27Sep1988	65.0	78.7	143.7
28Sep1988	65.0	79.0	144.0
29Sep1988	65.0	79.3	144.3
30Sep1988	65.0	79.7	144.7
01Oct1988	30.0	80.0	110.0
02Oct1988	30.0	80.0	110.0
03Oct1988	30.0	80.0	110.0
04Oct1988	30.0	80.0	110.0
05Oct1988	30.0	80.0	110.0
06Oct1988	30.0	80.0	110.0
07Oct1988	30.0	80.0	110.0
08Oct1988	30.0	80.0	110.0
09Oct1988	30.0	80.0	110.0
10Oct1988	30.0	80.0	110.0
11Oct1988	30.0	80.0	110.0
12Oct1988	30.0	80.0	110.0
13Oct1988	30.0	80.0	110.0
14Oct1988	30.0	80.0	110.0
15Oct1988	30.0	80.0	110.0
16Oct1988	30.0	80.0	110.0
17Oct1988	30.0	80.0	110.0
18Oct1988	30.0	80.0	110.0
19Oct1988	30.0	80.0	110.0
20Oct1988	30.0	80.0	110.0
21Oct1988	30.0	80.0	110.0
22Oct1988	30.0	80.0	110.0
23Oct1988	30.0	80.0	110.0
24Oct1988	30.0	80.0	110.0
25Oct1988	30.0	80.0	110.0
26Oct1988	30.0	80.0	110.0

27Oct1988	30.0	80.0	110.0
28Oct1988	30.0	80.0	110.0
29Oct1988	30.0	80.0	110.0
30Oct1988	30.0	80.0	110.0
31Oct1988	30.0	80.0	110.0
01Nov1988	3.0	80.0	83.0
02Nov1988	3.0	80.0	83.0
03Nov1988	3.0	80.0	83.0
04Nov1988	3.0	80.0	83.0
05Nov1988	3.0	80.0	83.0
06Nov1988	3.0	80.0	83.0
07Nov1988	3.0	80.0	83.0
08Nov1988	3.0	80.0	83.0
09Nov1988	3.0	80.0	83.0
10Nov1988	3.0	80.0	83.0
11Nov1988	3.0	80.0	83.0
12Nov1988	3.0	80.0	83.0
13Nov1988	3.0	80.0	83.0
14Nov1988	3.0	80.0	83.0
15Nov1988	3.0	80.0	83.0
16Nov1988	3.0	80.0	83.0
17Nov1988	3.0	80.0	83.0
18Nov1988	3.0	80.0	83.0
19Nov1988	3.0	80.0	83.0
20Nov1988	3.0	80.0	83.0
21Nov1988	3.0	80.0	83.0
22Nov1988	3.0	80.0	83.0
23Nov1988	3.0	80.0	83.0
24Nov1988	3.0	80.0	83.0
25Nov1988	3.0	80.0	83.0
26Nov1988	3.0	80.0	83.0
27Nov1988	3.0	80.0	83.0
28Nov1988	3.0	80.0	83.0
29Nov1988	3.0	80.0	83.0
30Nov1988	3.0	80.0	83.0
01Dec1988	1.0	80.0	81.0
02Dec1988	1.0	80.0	81.0
03Dec1988	1.0	80.0	81.0
04Dec1988	1.0	80.0	81.0
05Dec1988	1.0	80.0	81.0
06Dec1988	1.0	80.0	81.0
07Dec1988	1.0	80.0	81.0
08Dec1988	1.0	80.0	81.0
09Dec1988	1.0	80.0	81.0
10Dec1988	1.0	80.0	81.0
11Dec1988	1.0	80.0	81.0
12Dec1988	1.0	80.0	81.0
13Dec1988	1.0	80.0	81.0
14Dec1988	1.0	80.0	81.0
15Dec1988	1.0	80.0	81.0
16Dec1988	1.0	80.0	81.0
17Dec1988	1.0	80.0	81.0
18Dec1988	1.0	80.0	81.0
19Dec1988	1.0	80.0	81.0
20Dec1988	1.0	80.0	81.0
21Dec1988	1.0	80.0	81.0

22Dec1988	1.0	80.0	81.0
23Dec1988	1.0	80.0	81.0
24Dec1988	1.0	80.0	81.0
25Dec1988	1.0	80.0	81.0
26Dec1988	1.0	80.0	81.0
27Dec1988	1.0	80.0	81.0
28Dec1988	1.0	80.0	81.0
29Dec1988	1.0	80.0	81.0
30Dec1988	1.0	80.0	81.0
31Dec1988	1.0	80.0	81.0
01Jan1989	10.0	80.0	90.0
02Jan1989	10.0	80.6	90.6
03Jan1989	10.0	81.3	91.3
04Jan1989	10.0	81.9	91.9
05Jan1989	10.0	82.6	92.6
06Jan1989	10.0	83.2	93.2
07Jan1989	10.0	83.9	93.9
08Jan1989	10.0	84.5	94.5
09Jan1989	10.0	85.2	95.2
10Jan1989	10.0	85.8	95.8
11Jan1989	10.0	86.5	96.5
12Jan1989	10.0	87.1	97.1
13Jan1989	10.0	87.7	97.7
14Jan1989	10.0	88.4	98.4
15Jan1989	10.0	89.0	99.0
16Jan1989	10.0	89.7	99.7
17Jan1989	10.0	90.3	100.3
18Jan1989	10.0	91.0	101.0
19Jan1989	10.0	91.6	101.6
20Jan1989	10.0	92.3	102.3
21Jan1989	10.0	92.9	102.9
22Jan1989	10.0	93.5	103.5
23Jan1989	10.0	94.2	104.2
24Jan1989	10.0	94.8	104.8
25Jan1989	10.0	95.5	105.5
26Jan1989	10.0	96.1	106.1
27Jan1989	10.0	96.8	106.8
28Jan1989	10.0	97.4	107.4
29Jan1989	10.0	98.1	108.1
30Jan1989	10.0	98.7	108.7
31Jan1989	10.0	99.4	109.4
01Feb1989	30.0	100.0	130.0
02Feb1989	30.0	100.0	130.0
03Feb1989	30.0	100.0	130.0
04Feb1989	30.0	100.0	130.0
05Feb1989	30.0	100.0	130.0
06Feb1989	30.0	100.0	130.0
07Feb1989	30.0	100.0	130.0
08Feb1989	30.0	100.0	130.0
09Feb1989	30.0	100.0	130.0
10Feb1989	30.0	100.0	130.0
11Feb1989	30.0	100.0	130.0
12Feb1989	30.0	100.0	130.0
13Feb1989	30.0	100.0	130.0
14Feb1989	30.0	100.0	130.0
15Feb1989	30.0	100.0	130.0

16Feb1989	30.0	100.0	130.0
17Feb1989	30.0	100.0	130.0
18Feb1989	30.0	100.0	130.0
19Feb1989	30.0	100.0	130.0
20Feb1989	30.0	100.0	130.0
21Feb1989	30.0	100.0	130.0
22Feb1989	30.0	100.0	130.0
23Feb1989	30.0	100.0	130.0
24Feb1989	30.0	100.0	130.0
25Feb1989	30.0	100.0	130.0
26Feb1989	30.0	100.0	130.0
27Feb1989	30.0	100.0	130.0
28Feb1989	30.0	100.0	130.0
01Mar1989	30.0	100.0	130.0
02Mar1989	30.0	100.0	130.0
03Mar1989	688.0	375.9	1063.9
04Mar1989	197.0	107.6	304.6
05Mar1989	78.0	100.0	178.0
06Mar1989	41.0	100.0	141.0
07Mar1989	30.0	100.0	130.0
08Mar1989	30.0	100.0	130.0
09Mar1989	98.0	100.0	198.0
10Mar1989	95.0	100.0	195.0
11Mar1989	73.0	100.0	173.0
12Mar1989	552.0	301.6	853.6
13Mar1989	133.0	100.0	233.0
14Mar1989	56.0	100.0	156.0
15Mar1989	30.0	100.0	130.0
16Mar1989	30.0	100.0	130.0
17Mar1989	30.0	100.0	130.0
18Mar1989	30.0	100.0	130.0
19Mar1989	30.0	100.0	130.0
20Mar1989	30.0	100.0	130.0
21Mar1989	30.0	100.0	130.0
22Mar1989	30.0	100.0	130.0
23Mar1989	30.0	100.0	130.0
24Mar1989	30.0	100.0	130.0
25Mar1989	30.0	100.0	130.0
26Mar1989	30.0	100.0	130.0
27Mar1989	30.0	100.0	130.0
28Mar1989	30.0	100.0	130.0
29Mar1989	30.0	100.0	130.0
30Mar1989	30.0	100.0	130.0
31Mar1989	30.0	100.0	130.0
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03Apr1989	40.0	98.0	138.0
04Apr1989	40.0	97.0	137.0
05Apr1989	40.0	96.0	136.0
06Apr1989	40.0	95.0	135.0
07Apr1989	40.0	94.0	134.0
08Apr1989	40.0	93.0	133.0
09Apr1989	40.0	92.0	132.0
10Apr1989	40.0	91.0	131.0
11Apr1989	40.0	90.0	130.0
12Apr1989	40.0	89.0	129.0

13Apr1989	40.0	88.0	128.0
14Apr1989	40.0	87.0	127.0
15Apr1989	40.0	86.0	126.0
16Apr1989	40.0	85.0	125.0
17Apr1989	40.0	84.0	124.0
18Apr1989	40.0	83.0	123.0
19Apr1989	40.0	82.0	122.0
20Apr1989	40.0	81.0	121.0
21Apr1989	40.0	80.0	120.0
22Apr1989	40.0	79.0	119.0
23Apr1989	40.0	78.0	118.0
24Apr1989	40.0	77.0	117.0
25Apr1989	40.0	76.0	116.0
26Apr1989	40.0	75.0	115.0
27Apr1989	40.0	74.0	114.0
28Apr1989	40.0	73.0	113.0
29Apr1989	40.0	72.0	112.0
30Apr1989	40.0	71.0	111.0
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02May1989	45.0	70.0	115.0
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31May1989	45.0	70.0	115.0
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03Jun1989	50.0	70.0	120.0
04Jun1989	50.0	70.0	120.0
05Jun1989	50.0	70.0	120.0
06Jun1989	50.0	70.0	120.0
07Jun1989	50.0	70.0	120.0

08Jun1989	50.0	70.0	120.0
09Jun1989	50.0	70.0	120.0
10Jun1989	50.0	70.0	120.0
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27Jun1989	50.0	70.0	120.0
28Jun1989	50.0	70.0	120.0
29Jun1989	50.0	70.0	120.0
30Jun1989	50.0	70.0	120.0
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02Jul1989	55.0	70.0	125.0
03Jul1989	55.0	70.0	125.0
04Jul1989	55.0	70.0	125.0
05Jul1989	55.0	70.0	125.0
06Jul1989	55.0	70.0	125.0
07Jul1989	55.0	70.0	125.0
08Jul1989	55.0	70.0	125.0
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12Jul1989	55.0	70.0	125.0
13Jul1989	55.0	70.0	125.0
14Jul1989	55.0	70.0	125.0
15Jul1989	55.0	70.0	125.0
16Jul1989	55.0	70.0	125.0
17Jul1989	55.0	70.0	125.0
18Jul1989	55.0	70.0	125.0
19Jul1989	55.0	70.0	125.0
20Jul1989	55.0	70.0	125.0
21Jul1989	55.0	70.0	125.0
22Jul1989	55.0	70.0	125.0
23Jul1989	55.0	70.0	125.0
24Jul1989	55.0	70.0	125.0
25Jul1989	55.0	70.0	125.0
26Jul1989	55.0	70.0	125.0
27Jul1989	55.0	70.0	125.0
28Jul1989	55.0	70.0	125.0
29Jul1989	55.0	70.0	125.0
30Jul1989	55.0	70.0	125.0
31Jul1989	55.0	70.0	125.0
01Aug1989	70.0	70.0	140.0
02Aug1989	70.0	70.0	140.0

03Aug1989	70.0	70.0	140.0
04Aug1989	70.0	70.0	140.0
05Aug1989	70.0	70.0	140.0
06Aug1989	70.0	70.0	140.0
07Aug1989	70.0	70.0	140.0
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11Aug1989	70.0	70.0	140.0
12Aug1989	70.0	70.0	140.0
13Aug1989	70.0	70.0	140.0
14Aug1989	70.0	70.0	140.0
15Aug1989	70.0	70.0	140.0
16Aug1989	70.0	70.0	140.0
17Aug1989	70.0	70.0	140.0
18Aug1989	70.0	70.0	140.0
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22Aug1989	70.0	70.0	140.0
23Aug1989	70.0	70.0	140.0
24Aug1989	70.0	70.0	140.0
25Aug1989	70.0	70.0	140.0
26Aug1989	70.0	70.0	140.0
27Aug1989	70.0	70.0	140.0
28Aug1989	70.0	70.0	140.0
29Aug1989	70.0	70.0	140.0
30Aug1989	70.0	70.0	140.0
31Aug1989	70.0	70.0	140.0
01Sep1989	65.0	70.0	135.0
02Sep1989	65.0	70.3	135.3
03Sep1989	65.0	70.7	135.7
04Sep1989	65.0	71.0	136.0
05Sep1989	65.0	71.3	136.3
06Sep1989	65.0	71.7	136.7
07Sep1989	65.0	72.0	137.0
08Sep1989	65.0	72.3	137.3
09Sep1989	65.0	72.7	137.7
10Sep1989	65.0	73.0	138.0
11Sep1989	65.0	73.3	138.3
12Sep1989	65.0	73.7	138.7
13Sep1989	65.0	74.0	139.0
14Sep1989	65.0	74.3	139.3
15Sep1989	65.0	74.7	139.7
16Sep1989	65.0	75.0	140.0
17Sep1989	65.0	75.3	140.3
18Sep1989	65.0	75.7	140.7
19Sep1989	65.0	76.0	141.0
20Sep1989	65.0	76.3	141.3
21Sep1989	65.0	76.7	141.7
22Sep1989	65.0	77.0	142.0
23Sep1989	65.0	77.3	142.3
24Sep1989	65.0	77.7	142.7
25Sep1989	65.0	78.0	143.0
26Sep1989	65.0	78.3	143.3
27Sep1989	65.0	78.7	143.7

28Sep1989	65.0	79.0	144.0
29Sep1989	65.0	79.3	144.3
30Sep1989	65.0	79.7	144.7
01Oct1989	30.0	80.0	110.0
02Oct1989	30.0	80.0	110.0
03Oct1989	30.0	80.0	110.0
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05Oct1989	30.0	80.0	110.0
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28Oct1989	30.0	80.0	110.0
29Oct1989	30.0	80.0	110.0
30Oct1989	30.0	80.0	110.0
31Oct1989	30.0	80.0	110.0
01Nov1989	3.0	80.0	83.0
02Nov1989	3.0	80.0	83.0
03Nov1989	3.0	80.0	83.0
04Nov1989	3.0	80.0	83.0
05Nov1989	3.0	80.0	83.0
06Nov1989	3.0	80.0	83.0
07Nov1989	3.0	80.0	83.0
08Nov1989	3.0	80.0	83.0
09Nov1989	3.0	80.0	83.0
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13Nov1989	3.0	80.0	83.0
14Nov1989	3.0	80.0	83.0
15Nov1989	3.0	80.0	83.0
16Nov1989	3.0	80.0	83.0
17Nov1989	3.0	80.0	83.0
18Nov1989	3.0	80.0	83.0
19Nov1989	3.0	80.0	83.0
20Nov1989	3.0	80.0	83.0
21Nov1989	3.0	80.0	83.0
22Nov1989	3.0	80.0	83.0

23Nov1989	3.0	80.0	83.0
24Nov1989	3.0	80.0	83.0
25Nov1989	3.0	80.0	83.0
26Nov1989	3.0	80.0	83.0
27Nov1989	3.0	80.0	83.0
28Nov1989	3.0	80.0	83.0
29Nov1989	3.0	80.0	83.0
30Nov1989	3.0	80.0	83.0
01Dec1989	1.0	80.0	81.0
02Dec1989	1.0	80.0	81.0
03Dec1989	1.0	80.0	81.0
04Dec1989	1.0	80.0	81.0
05Dec1989	1.0	80.0	81.0
06Dec1989	1.0	80.0	81.0
07Dec1989	1.0	80.0	81.0
08Dec1989	1.0	80.0	81.0
09Dec1989	1.0	80.0	81.0
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11Dec1989	1.0	80.0	81.0
12Dec1989	1.0	80.0	81.0
13Dec1989	1.0	80.0	81.0
14Dec1989	1.0	80.0	81.0
15Dec1989	1.0	80.0	81.0
16Dec1989	1.0	80.0	81.0
17Dec1989	1.0	80.0	81.0
18Dec1989	1.0	80.0	81.0
19Dec1989	1.0	80.0	81.0
20Dec1989	1.0	80.0	81.0
21Dec1989	1.0	80.0	81.0
22Dec1989	1.0	80.0	81.0
23Dec1989	1.0	80.0	81.0
24Dec1989	1.0	80.0	81.0
25Dec1989	1.0	80.0	81.0
26Dec1989	1.0	80.0	81.0
27Dec1989	1.0	80.0	81.0
28Dec1989	1.0	80.0	81.0
29Dec1989	1.0	80.0	81.0
30Dec1989	1.0	80.0	81.0
31Dec1989	1.0	80.0	81.0
01Jan1990	10.0	80.0	90.0
02Jan1990	10.0	80.6	90.6
03Jan1990	10.0	81.3	91.3
04Jan1990	10.0	81.9	91.9
05Jan1990	10.0	82.6	92.6
06Jan1990	10.0	83.2	93.2
07Jan1990	10.0	83.9	93.9
08Jan1990	10.0	84.5	94.5
09Jan1990	10.0	85.2	95.2
10Jan1990	10.0	85.8	95.8
11Jan1990	10.0	86.5	96.5
12Jan1990	10.0	87.1	97.1
13Jan1990	10.0	87.7	97.7
14Jan1990	10.0	88.4	98.4
15Jan1990	10.0	89.0	99.0
16Jan1990	10.0	89.7	99.7
17Jan1990	10.0	90.3	100.3

18Jan1990	10.0	91.0	101.0
19Jan1990	10.0	91.6	101.6
20Jan1990	10.0	92.3	102.3
21Jan1990	10.0	92.9	102.9
22Jan1990	10.0	93.5	103.5
23Jan1990	10.0	94.2	104.2
24Jan1990	10.0	94.8	104.8
25Jan1990	10.0	95.5	105.5
26Jan1990	10.0	96.1	106.1
27Jan1990	10.0	96.8	106.8
28Jan1990	10.0	97.4	107.4
29Jan1990	10.0	98.1	108.1
30Jan1990	10.0	98.7	108.7
31Jan1990	10.0	99.4	109.4
01Feb1990	30.0	100.0	130.0
02Feb1990	30.0	100.0	130.0
03Feb1990	30.0	100.0	130.0
04Feb1990	30.0	100.0	130.0
05Feb1990	30.0	100.0	130.0
06Feb1990	30.0	100.0	130.0
07Feb1990	30.0	100.0	130.0
08Feb1990	30.0	100.0	130.0
09Feb1990	30.0	100.0	130.0
10Feb1990	30.0	100.0	130.0
11Feb1990	30.0	100.0	130.0
12Feb1990	30.0	100.0	130.0
13Feb1990	30.0	100.0	130.0
14Feb1990	30.0	100.0	130.0
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16Feb1990	30.0	100.0	130.0
17Feb1990	30.0	100.0	130.0
18Feb1990	30.0	100.0	130.0
19Feb1990	30.0	100.0	130.0
20Feb1990	30.0	100.0	130.0
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23Feb1990	30.0	100.0	130.0
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25Feb1990	30.0	100.0	130.0
26Feb1990	30.0	100.0	130.0
27Feb1990	30.0	100.0	130.0
28Feb1990	30.0	100.0	130.0
01Mar1990	30.0	100.0	130.0
02Mar1990	30.0	100.0	130.0
03Mar1990	30.0	100.0	130.0
04Mar1990	30.0	100.0	130.0
05Mar1990	30.0	100.0	130.0
06Mar1990	30.0	100.0	130.0
07Mar1990	30.0	100.0	130.0
08Mar1990	30.0	100.0	130.0
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10Mar1990	30.0	100.0	130.0
11Mar1990	30.0	100.0	130.0
12Mar1990	30.0	100.0	130.0
13Mar1990	30.0	100.0	130.0
14Mar1990	30.0	100.0	130.0

15Mar1990	30.0	100.0	130.0
16Mar1990	30.0	100.0	130.0
17Mar1990	30.0	100.0	130.0
18Mar1990	30.0	100.0	130.0
19Mar1990	30.0	100.0	130.0
20Mar1990	30.0	100.0	130.0
21Mar1990	30.0	100.0	130.0
22Mar1990	30.0	100.0	130.0
23Mar1990	30.0	100.0	130.0
24Mar1990	30.0	100.0	130.0
25Mar1990	30.0	100.0	130.0
26Mar1990	30.0	100.0	130.0
27Mar1990	30.0	100.0	130.0
28Mar1990	30.0	100.0	130.0
29Mar1990	30.0	100.0	130.0
30Mar1990	30.0	100.0	130.0
31Mar1990	30.0	100.0	130.0
01Apr1990	40.0	100.0	140.0
02Apr1990	40.0	99.0	139.0
03Apr1990	40.0	98.0	138.0
04Apr1990	40.0	97.0	137.0
05Apr1990	40.0	96.0	136.0
06Apr1990	40.0	95.0	135.0
07Apr1990	40.0	94.0	134.0
08Apr1990	40.0	93.0	133.0
09Apr1990	40.0	92.0	132.0
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11Apr1990	40.0	90.0	130.0
12Apr1990	40.0	89.0	129.0
13Apr1990	40.0	88.0	128.0
14Apr1990	40.0	87.0	127.0
15Apr1990	40.0	86.0	126.0
16Apr1990	40.0	85.0	125.0
17Apr1990	40.0	84.0	124.0
18Apr1990	40.0	83.0	123.0
19Apr1990	40.0	82.0	122.0
20Apr1990	40.0	81.0	121.0
21Apr1990	40.0	80.0	120.0
22Apr1990	40.0	79.0	119.0
23Apr1990	40.0	78.0	118.0
24Apr1990	40.0	77.0	117.0
25Apr1990	40.0	76.0	116.0
26Apr1990	40.0	75.0	115.0
27Apr1990	40.0	74.0	114.0
28Apr1990	40.0	73.0	113.0
29Apr1990	40.0	72.0	112.0
30Apr1990	40.0	71.0	111.0
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02May1990	45.0	70.0	115.0
03May1990	45.0	70.0	115.0
04May1990	45.0	70.0	115.0
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06May1990	45.0	70.0	115.0
07May1990	45.0	70.0	115.0
08May1990	45.0	70.0	115.0
09May1990	45.0	70.0	115.0

10May1990	45.0	70.0	115.0
11May1990	45.0	70.0	115.0
12May1990	45.0	70.0	115.0
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17May1990	45.0	70.0	115.0
18May1990	45.0	70.0	115.0
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21May1990	45.0	70.0	115.0
22May1990	45.0	70.0	115.0
23May1990	45.0	70.0	115.0
24May1990	45.0	70.0	115.0
25May1990	45.0	70.0	115.0
26May1990	45.0	70.0	115.0
27May1990	45.0	70.0	115.0
28May1990	45.0	70.0	115.0
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31May1990	45.0	70.0	115.0
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02Jun1990	50.0	70.0	120.0
03Jun1990	50.0	70.0	120.0
04Jun1990	50.0	70.0	120.0
05Jun1990	50.0	70.0	120.0
06Jun1990	50.0	70.0	120.0
07Jun1990	50.0	70.0	120.0
08Jun1990	50.0	70.0	120.0
09Jun1990	50.0	70.0	120.0
10Jun1990	50.0	70.0	120.0
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13Jun1990	50.0	70.0	120.0
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17Jun1990	50.0	70.0	120.0
18Jun1990	50.0	70.0	120.0
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21Jun1990	50.0	70.0	120.0
22Jun1990	50.0	70.0	120.0
23Jun1990	50.0	70.0	120.0
24Jun1990	50.0	70.0	120.0
25Jun1990	50.0	70.0	120.0
26Jun1990	50.0	70.0	120.0
27Jun1990	50.0	70.0	120.0
28Jun1990	50.0	70.0	120.0
29Jun1990	50.0	70.0	120.0
30Jun1990	50.0	70.0	120.0
01Jul1990	55.0	70.0	125.0
02Jul1990	55.0	70.0	125.0
03Jul1990	55.0	70.0	125.0
04Jul1990	55.0	70.0	125.0

05Jul1990	55.0	70.0	125.0
06Jul1990	55.0	70.0	125.0
07Jul1990	55.0	70.0	125.0
08Jul1990	55.0	70.0	125.0
09Jul1990	55.0	70.0	125.0
10Jul1990	55.0	70.0	125.0
11Jul1990	55.0	70.0	125.0
12Jul1990	55.0	70.0	125.0
13Jul1990	55.0	70.0	125.0
14Jul1990	55.0	70.0	125.0
15Jul1990	55.0	70.0	125.0
16Jul1990	55.0	70.0	125.0
17Jul1990	55.0	70.0	125.0
18Jul1990	55.0	70.0	125.0
19Jul1990	55.0	70.0	125.0
20Jul1990	55.0	70.0	125.0
21Jul1990	55.0	70.0	125.0
22Jul1990	55.0	70.0	125.0
23Jul1990	55.0	70.0	125.0
24Jul1990	55.0	70.0	125.0
25Jul1990	55.0	70.0	125.0
26Jul1990	55.0	70.0	125.0
27Jul1990	55.0	70.0	125.0
28Jul1990	55.0	70.0	125.0
29Jul1990	55.0	70.0	125.0
30Jul1990	55.0	70.0	125.0
31Jul1990	55.0	70.0	125.0
01Aug1990	70.0	70.0	140.0
02Aug1990	70.0	70.0	140.0
03Aug1990	70.0	70.0	140.0
04Aug1990	70.0	70.0	140.0
05Aug1990	70.0	70.0	140.0
06Aug1990	70.0	70.0	140.0
07Aug1990	70.0	70.0	140.0
08Aug1990	70.0	70.0	140.0
09Aug1990	70.0	70.0	140.0
10Aug1990	70.0	70.0	140.0
11Aug1990	70.0	70.0	140.0
12Aug1990	70.0	70.0	140.0
13Aug1990	70.0	70.0	140.0
14Aug1990	70.0	70.0	140.0
15Aug1990	70.0	70.0	140.0
16Aug1990	70.0	70.0	140.0
17Aug1990	70.0	70.0	140.0
18Aug1990	70.0	70.0	140.0
19Aug1990	70.0	70.0	140.0
20Aug1990	70.0	70.0	140.0
21Aug1990	70.0	70.0	140.0
22Aug1990	70.0	70.0	140.0
23Aug1990	70.0	70.0	140.0
24Aug1990	70.0	70.0	140.0
25Aug1990	70.0	70.0	140.0
26Aug1990	70.0	70.0	140.0
27Aug1990	70.0	70.0	140.0
28Aug1990	70.0	70.0	140.0
29Aug1990	70.0	70.0	140.0

30Aug1990	70.0	70.0	140.0
31Aug1990	70.0	70.0	140.0
01Sep1990	65.0	70.0	135.0
02Sep1990	65.0	70.3	135.3
03Sep1990	65.0	70.7	135.7
04Sep1990	65.0	71.0	136.0
05Sep1990	65.0	71.3	136.3
06Sep1990	65.0	71.7	136.7
07Sep1990	65.0	72.0	137.0
08Sep1990	65.0	72.3	137.3
09Sep1990	65.0	72.7	137.7
10Sep1990	65.0	73.0	138.0
11Sep1990	65.0	73.3	138.3
12Sep1990	65.0	73.7	138.7
13Sep1990	65.0	74.0	139.0
14Sep1990	65.0	74.3	139.3
15Sep1990	65.0	74.7	139.7
16Sep1990	65.0	75.0	140.0
17Sep1990	65.0	75.3	140.3
18Sep1990	65.0	75.7	140.7
19Sep1990	65.0	76.0	141.0
20Sep1990	65.0	76.3	141.3
21Sep1990	65.0	76.7	141.7
22Sep1990	65.0	77.0	142.0
23Sep1990	65.0	77.3	142.3
24Sep1990	65.0	77.7	142.7
25Sep1990	65.0	78.0	143.0
26Sep1990	65.0	78.3	143.3
27Sep1990	65.0	78.7	143.7
28Sep1990	65.0	79.0	144.0
29Sep1990	65.0	79.3	144.3
30Sep1990	65.0	79.7	144.7
01Oct1990	30.0	80.0	110.0
02Oct1990	30.0	80.0	110.0
03Oct1990	30.0	80.0	110.0
04Oct1990	30.0	80.0	110.0
05Oct1990	30.0	80.0	110.0
06Oct1990	30.0	80.0	110.0
07Oct1990	30.0	80.0	110.0
08Oct1990	30.0	80.0	110.0
09Oct1990	30.0	80.0	110.0
10Oct1990	30.0	80.0	110.0
11Oct1990	30.0	80.0	110.0
12Oct1990	30.0	80.0	110.0
13Oct1990	30.0	80.0	110.0
14Oct1990	30.0	80.0	110.0
15Oct1990	30.0	80.0	110.0
16Oct1990	30.0	80.0	110.0
17Oct1990	30.0	80.0	110.0
18Oct1990	30.0	80.0	110.0
19Oct1990	30.0	80.0	110.0
20Oct1990	30.0	80.0	110.0
21Oct1990	30.0	80.0	110.0
22Oct1990	30.0	80.0	110.0
23Oct1990	30.0	80.0	110.0
24Oct1990	30.0	80.0	110.0

25Oct1990	30.0	80.0	110.0
26Oct1990	30.0	80.0	110.0
27Oct1990	30.0	80.0	110.0
28Oct1990	30.0	80.0	110.0
29Oct1990	30.0	80.0	110.0
30Oct1990	30.0	80.0	110.0
31Oct1990	30.0	80.0	110.0
01Nov1990	3.0	80.0	83.0
02Nov1990	3.0	80.0	83.0
03Nov1990	3.0	80.0	83.0
04Nov1990	3.0	80.0	83.0
05Nov1990	3.0	80.0	83.0
06Nov1990	3.0	80.0	83.0
07Nov1990	3.0	80.0	83.0
08Nov1990	3.0	80.0	83.0
09Nov1990	3.0	80.0	83.0
10Nov1990	3.0	80.0	83.0
11Nov1990	3.0	80.0	83.0
12Nov1990	3.0	80.0	83.0
13Nov1990	3.0	80.0	83.0
14Nov1990	3.0	80.0	83.0
15Nov1990	3.0	80.0	83.0
16Nov1990	3.0	80.0	83.0
17Nov1990	3.0	80.0	83.0
18Nov1990	3.0	80.0	83.0
19Nov1990	3.0	80.0	83.0
20Nov1990	3.0	80.0	83.0
21Nov1990	3.0	80.0	83.0
22Nov1990	3.0	80.0	83.0
23Nov1990	3.0	80.0	83.0
24Nov1990	3.0	80.0	83.0
25Nov1990	3.0	80.0	83.0
26Nov1990	3.0	80.0	83.0
27Nov1990	3.0	80.0	83.0
28Nov1990	3.0	80.0	83.0
29Nov1990	3.0	80.0	83.0
30Nov1990	3.0	80.0	83.0
01Dec1990	1.0	80.0	81.0
02Dec1990	1.0	80.0	81.0
03Dec1990	1.0	80.0	81.0
04Dec1990	1.0	80.0	81.0
05Dec1990	1.0	80.0	81.0
06Dec1990	1.0	80.0	81.0
07Dec1990	1.0	80.0	81.0
08Dec1990	1.0	80.0	81.0
09Dec1990	1.0	80.0	81.0
10Dec1990	1.0	80.0	81.0
11Dec1990	1.0	80.0	81.0
12Dec1990	1.0	80.0	81.0
13Dec1990	1.0	80.0	81.0
14Dec1990	1.0	80.0	81.0
15Dec1990	1.0	80.0	81.0
16Dec1990	1.0	80.0	81.0
17Dec1990	1.0	80.0	81.0
18Dec1990	1.0	80.0	81.0
19Dec1990	1.0	80.0	81.0

20Dec1990	1.0	80.0	81.0
21Dec1990	1.0	80.0	81.0
22Dec1990	1.0	80.0	81.0
23Dec1990	1.0	80.0	81.0
24Dec1990	1.0	80.0	81.0
25Dec1990	1.0	80.0	81.0
26Dec1990	1.0	80.0	81.0
27Dec1990	1.0	80.0	81.0
28Dec1990	1.0	80.0	81.0
29Dec1990	1.0	80.0	81.0
30Dec1990	1.0	80.0	81.0
31Dec1990	1.0	80.0	81.0
01Jan1991	10.0	80.0	90.0
02Jan1991	10.0	80.6	90.6
03Jan1991	10.0	81.3	91.3
04Jan1991	10.0	81.9	91.9
05Jan1991	10.0	82.6	92.6
06Jan1991	10.0	83.2	93.2
07Jan1991	10.0	83.9	93.9
08Jan1991	10.0	84.5	94.5
09Jan1991	10.0	85.2	95.2
10Jan1991	10.0	85.8	95.8
11Jan1991	10.0	86.5	96.5
12Jan1991	10.0	87.1	97.1
13Jan1991	10.0	87.7	97.7
14Jan1991	10.0	88.4	98.4
15Jan1991	10.0	89.0	99.0
16Jan1991	10.0	89.7	99.7
17Jan1991	10.0	90.3	100.3
18Jan1991	10.0	91.0	101.0
19Jan1991	10.0	91.6	101.6
20Jan1991	10.0	92.3	102.3
21Jan1991	10.0	92.9	102.9
22Jan1991	10.0	93.5	103.5
23Jan1991	10.0	94.2	104.2
24Jan1991	10.0	94.8	104.8
25Jan1991	10.0	95.5	105.5
26Jan1991	10.0	96.1	106.1
27Jan1991	10.0	96.8	106.8
28Jan1991	10.0	97.4	107.4
29Jan1991	10.0	98.1	108.1
30Jan1991	10.0	98.7	108.7
31Jan1991	10.0	99.4	109.4
01Feb1991	30.0	100.0	130.0
02Feb1991	30.0	100.0	130.0
03Feb1991	30.0	100.0	130.0
04Feb1991	30.0	100.0	130.0
05Feb1991	30.0	100.0	130.0
06Feb1991	30.0	100.0	130.0
07Feb1991	30.0	100.0	130.0
08Feb1991	30.0	100.0	130.0
09Feb1991	30.0	100.0	130.0
10Feb1991	30.0	100.0	130.0
11Feb1991	30.0	100.0	130.0
12Feb1991	30.0	100.0	130.0
13Feb1991	30.0	100.0	130.0

14Feb1991	30.0	100.0	130.0
15Feb1991	30.0	100.0	130.0
16Feb1991	30.0	100.0	130.0
17Feb1991	30.0	100.0	130.0
18Feb1991	30.0	100.0	130.0
19Feb1991	30.0	100.0	130.0
20Feb1991	30.0	100.0	130.0
21Feb1991	30.0	100.0	130.0
22Feb1991	30.0	100.0	130.0
23Feb1991	30.0	100.0	130.0
24Feb1991	30.0	100.0	130.0
25Feb1991	30.0	100.0	130.0
26Feb1991	30.0	100.0	130.0
27Feb1991	30.0	100.0	130.0
28Feb1991	30.0	100.0	130.0
01Mar1991	30.0	100.0	130.0
02Mar1991	30.0	100.0	130.0
03Mar1991	30.0	100.0	130.0
04Mar1991	30.0	100.0	130.0
05Mar1991	30.0	100.0	130.0
06Mar1991	30.0	100.0	130.0
07Mar1991	30.0	100.0	130.0
08Mar1991	30.0	100.0	130.0
09Mar1991	30.0	100.0	130.0
10Mar1991	30.0	100.0	130.0
11Mar1991	30.0	100.0	130.0
12Mar1991	30.0	100.0	130.0
13Mar1991	30.0	100.0	130.0
14Mar1991	30.0	100.0	130.0
15Mar1991	30.0	100.0	130.0
16Mar1991	30.0	100.0	130.0
17Mar1991	30.0	100.0	130.0
18Mar1991	30.0	100.0	130.0
19Mar1991	336.0	183.6	519.6
20Mar1991	816.0	445.9	1261.9
21Mar1991	1180.0	644.8	1824.8
22Mar1991	282.0	154.1	436.1
23Mar1991	118.0	100.0	218.0
24Mar1991	72.0	100.0	172.0
25Mar1991	764.0	417.5	1181.5
26Mar1991	676.0	369.4	1045.4
27Mar1991	1330.0	726.7	2056.7
28Mar1991	429.0	234.4	663.4
29Mar1991	163.0	100.0	263.0
30Mar1991	108.0	100.0	208.0
31Mar1991	62.0	100.0	162.0
01Apr1991	41.0	100.0	141.0
02Apr1991	40.0	99.0	139.0
03Apr1991	40.0	98.0	138.0
04Apr1991	40.0	97.0	137.0
05Apr1991	40.0	96.0	136.0
06Apr1991	40.0	95.0	135.0
07Apr1991	40.0	94.0	134.0
08Apr1991	40.0	93.0	133.0
09Apr1991	40.0	92.0	132.0
10Apr1991	40.0	91.0	131.0

11Apr1991	40.0	90.0	130.0
12Apr1991	40.0	89.0	129.0
13Apr1991	40.0	88.0	128.0
14Apr1991	40.0	87.0	127.0
15Apr1991	40.0	86.0	126.0
16Apr1991	40.0	85.0	125.0
17Apr1991	40.0	84.0	124.0
18Apr1991	40.0	83.0	123.0
19Apr1991	40.0	82.0	122.0
20Apr1991	40.0	81.0	121.0
21Apr1991	40.0	80.0	120.0
22Apr1991	40.0	79.0	119.0
23Apr1991	40.0	78.0	118.0
24Apr1991	40.0	77.0	117.0
25Apr1991	40.0	76.0	116.0
26Apr1991	40.0	75.0	115.0
27Apr1991	40.0	74.0	114.0
28Apr1991	40.0	73.0	113.0
29Apr1991	40.0	72.0	112.0
30Apr1991	40.0	71.0	111.0
01May1991	45.0	70.0	115.0
02May1991	45.0	70.0	115.0
03May1991	45.0	70.0	115.0
04May1991	45.0	70.0	115.0
05May1991	45.0	70.0	115.0
06May1991	45.0	70.0	115.0
07May1991	45.0	70.0	115.0
08May1991	45.0	70.0	115.0
09May1991	45.0	70.0	115.0
10May1991	45.0	70.0	115.0
11May1991	45.0	70.0	115.0
12May1991	45.0	70.0	115.0
13May1991	45.0	70.0	115.0
14May1991	45.0	70.0	115.0
15May1991	45.0	70.0	115.0
16May1991	45.0	70.0	115.0
17May1991	45.0	70.0	115.0
18May1991	45.0	70.0	115.0
19May1991	45.0	70.0	115.0
20May1991	45.0	70.0	115.0
21May1991	45.0	70.0	115.0
22May1991	45.0	70.0	115.0
23May1991	45.0	70.0	115.0
24May1991	45.0	70.0	115.0
25May1991	45.0	70.0	115.0
26May1991	45.0	70.0	115.0
27May1991	45.0	70.0	115.0
28May1991	45.0	70.0	115.0
29May1991	45.0	70.0	115.0
30May1991	45.0	70.0	115.0
31May1991	45.0	70.0	115.0
01Jun1991	50.0	70.0	120.0
02Jun1991	50.0	70.0	120.0
03Jun1991	50.0	70.0	120.0
04Jun1991	50.0	70.0	120.0
05Jun1991	50.0	70.0	120.0

06Jun1991	50.0	70.0	120.0
07Jun1991	50.0	70.0	120.0
08Jun1991	50.0	70.0	120.0
09Jun1991	50.0	70.0	120.0
10Jun1991	50.0	70.0	120.0
11Jun1991	50.0	70.0	120.0
12Jun1991	50.0	70.0	120.0
13Jun1991	50.0	70.0	120.0
14Jun1991	50.0	70.0	120.0
15Jun1991	50.0	70.0	120.0
16Jun1991	50.0	70.0	120.0
17Jun1991	50.0	70.0	120.0
18Jun1991	50.0	70.0	120.0
19Jun1991	50.0	70.0	120.0
20Jun1991	50.0	70.0	120.0
21Jun1991	50.0	70.0	120.0
22Jun1991	50.0	70.0	120.0
23Jun1991	50.0	70.0	120.0
24Jun1991	50.0	70.0	120.0
25Jun1991	50.0	70.0	120.0
26Jun1991	50.0	70.0	120.0
27Jun1991	50.0	70.0	120.0
28Jun1991	50.0	70.0	120.0
29Jun1991	50.0	70.0	120.0
30Jun1991	50.0	70.0	120.0
01Jul1991	55.0	70.0	125.0
02Jul1991	55.0	70.0	125.0
03Jul1991	55.0	70.0	125.0
04Jul1991	55.0	70.0	125.0
05Jul1991	55.0	70.0	125.0
06Jul1991	55.0	70.0	125.0
07Jul1991	55.0	70.0	125.0
08Jul1991	55.0	70.0	125.0
09Jul1991	55.0	70.0	125.0
10Jul1991	55.0	70.0	125.0
11Jul1991	55.0	70.0	125.0
12Jul1991	55.0	70.0	125.0
13Jul1991	55.0	70.0	125.0
14Jul1991	55.0	70.0	125.0
15Jul1991	55.0	70.0	125.0
16Jul1991	55.0	70.0	125.0
17Jul1991	55.0	70.0	125.0
18Jul1991	55.0	70.0	125.0
19Jul1991	55.0	70.0	125.0
20Jul1991	55.0	70.0	125.0
21Jul1991	55.0	70.0	125.0
22Jul1991	55.0	70.0	125.0
23Jul1991	55.0	70.0	125.0
24Jul1991	55.0	70.0	125.0
25Jul1991	55.0	70.0	125.0
26Jul1991	55.0	70.0	125.0
27Jul1991	55.0	70.0	125.0
28Jul1991	55.0	70.0	125.0
29Jul1991	55.0	70.0	125.0
30Jul1991	55.0	70.0	125.0
31Jul1991	55.0	70.0	125.0

01Aug1991	70.0	70.0	140.0
02Aug1991	70.0	70.0	140.0
03Aug1991	70.0	70.0	140.0
04Aug1991	70.0	70.0	140.0
05Aug1991	70.0	70.0	140.0
06Aug1991	70.0	70.0	140.0
07Aug1991	70.0	70.0	140.0
08Aug1991	70.0	70.0	140.0
09Aug1991	70.0	70.0	140.0
10Aug1991	70.0	70.0	140.0
11Aug1991	70.0	70.0	140.0
12Aug1991	70.0	70.0	140.0
13Aug1991	70.0	70.0	140.0
14Aug1991	70.0	70.0	140.0
15Aug1991	70.0	70.0	140.0
16Aug1991	70.0	70.0	140.0
17Aug1991	70.0	70.0	140.0
18Aug1991	70.0	70.0	140.0
19Aug1991	70.0	70.0	140.0
20Aug1991	70.0	70.0	140.0
21Aug1991	70.0	70.0	140.0
22Aug1991	70.0	70.0	140.0
23Aug1991	70.0	70.0	140.0
24Aug1991	70.0	70.0	140.0
25Aug1991	70.0	70.0	140.0
26Aug1991	70.0	70.0	140.0
27Aug1991	70.0	70.0	140.0
28Aug1991	70.0	70.0	140.0
29Aug1991	70.0	70.0	140.0
30Aug1991	70.0	70.0	140.0
31Aug1991	70.0	70.0	140.0
01Sep1991	65.0	70.0	135.0
02Sep1991	65.0	70.3	135.3
03Sep1991	65.0	70.7	135.7
04Sep1991	65.0	71.0	136.0
05Sep1991	65.0	71.3	136.3
06Sep1991	65.0	71.7	136.7
07Sep1991	65.0	72.0	137.0
08Sep1991	65.0	72.3	137.3
09Sep1991	65.0	72.7	137.7
10Sep1991	65.0	73.0	138.0
11Sep1991	65.0	73.3	138.3
12Sep1991	65.0	73.7	138.7
13Sep1991	65.0	74.0	139.0
14Sep1991	65.0	74.3	139.3
15Sep1991	65.0	74.7	139.7
16Sep1991	65.0	75.0	140.0
17Sep1991	65.0	75.3	140.3
18Sep1991	65.0	75.7	140.7
19Sep1991	65.0	76.0	141.0
20Sep1991	65.0	76.3	141.3
21Sep1991	65.0	76.7	141.7
22Sep1991	65.0	77.0	142.0
23Sep1991	65.0	77.3	142.3
24Sep1991	65.0	77.7	142.7
25Sep1991	65.0	78.0	143.0

26Sep1991	65.0	78.3	143.3
27Sep1991	65.0	78.7	143.7
28Sep1991	65.0	79.0	144.0
29Sep1991	65.0	79.3	144.3
30Sep1991	65.0	79.7	144.7
01Oct1991	30.0	80.0	110.0
02Oct1991	30.0	80.0	110.0
03Oct1991	30.0	80.0	110.0
04Oct1991	30.0	80.0	110.0
05Oct1991	30.0	80.0	110.0
06Oct1991	30.0	80.0	110.0
07Oct1991	30.0	80.0	110.0
08Oct1991	30.0	80.0	110.0
09Oct1991	30.0	80.0	110.0
10Oct1991	30.0	80.0	110.0
11Oct1991	30.0	80.0	110.0
12Oct1991	30.0	80.0	110.0
13Oct1991	30.0	80.0	110.0
14Oct1991	30.0	80.0	110.0
15Oct1991	30.0	80.0	110.0
16Oct1991	30.0	80.0	110.0
17Oct1991	30.0	80.0	110.0
18Oct1991	30.0	80.0	110.0
19Oct1991	30.0	80.0	110.0
20Oct1991	30.0	80.0	110.0
21Oct1991	30.0	80.0	110.0
22Oct1991	30.0	80.0	110.0
23Oct1991	30.0	80.0	110.0
24Oct1991	30.0	80.0	110.0
25Oct1991	30.0	80.0	110.0
26Oct1991	30.0	80.0	110.0
27Oct1991	30.0	80.0	110.0
28Oct1991	30.0	80.0	110.0
29Oct1991	30.0	80.0	110.0
30Oct1991	30.0	80.0	110.0
31Oct1991	30.0	80.0	110.0
01Nov1991	3.0	80.0	83.0
02Nov1991	3.0	80.0	83.0
03Nov1991	3.0	80.0	83.0
04Nov1991	3.0	80.0	83.0
05Nov1991	3.0	80.0	83.0
06Nov1991	3.0	80.0	83.0
07Nov1991	3.0	80.0	83.0
08Nov1991	3.0	80.0	83.0
09Nov1991	3.0	80.0	83.0
10Nov1991	3.0	80.0	83.0
11Nov1991	3.0	80.0	83.0
12Nov1991	3.0	80.0	83.0
13Nov1991	3.0	80.0	83.0
14Nov1991	3.0	80.0	83.0
15Nov1991	3.0	80.0	83.0
16Nov1991	3.0	80.0	83.0
17Nov1991	3.0	80.0	83.0
18Nov1991	3.0	80.0	83.0
19Nov1991	3.0	80.0	83.0
20Nov1991	3.0	80.0	83.0

21Nov1991	3.0	80.0	83.0
22Nov1991	3.0	80.0	83.0
23Nov1991	3.0	80.0	83.0
24Nov1991	3.0	80.0	83.0
25Nov1991	3.0	80.0	83.0
26Nov1991	3.0	80.0	83.0
27Nov1991	3.0	80.0	83.0
28Nov1991	3.0	80.0	83.0
29Nov1991	3.0	80.0	83.0
30Nov1991	3.0	80.0	83.0
01Dec1991	1.0	80.0	81.0
02Dec1991	1.0	80.0	81.0
03Dec1991	1.0	80.0	81.0
04Dec1991	1.0	80.0	81.0
05Dec1991	1.0	80.0	81.0
06Dec1991	1.0	80.0	81.0
07Dec1991	1.0	80.0	81.0
08Dec1991	1.0	80.0	81.0
09Dec1991	1.0	80.0	81.0
10Dec1991	1.0	80.0	81.0
11Dec1991	1.0	80.0	81.0
12Dec1991	1.0	80.0	81.0
13Dec1991	1.0	80.0	81.0
14Dec1991	1.0	80.0	81.0
15Dec1991	1.0	80.0	81.0
16Dec1991	1.0	80.0	81.0
17Dec1991	1.0	80.0	81.0
18Dec1991	1.0	80.0	81.0
19Dec1991	1.0	80.0	81.0
20Dec1991	1.0	80.0	81.0
21Dec1991	1.0	80.0	81.0
22Dec1991	1.0	80.0	81.0
23Dec1991	1.0	80.0	81.0
24Dec1991	1.0	80.0	81.0
25Dec1991	1.0	80.0	81.0
26Dec1991	1.0	80.0	81.0
27Dec1991	1.0	80.0	81.0
28Dec1991	1.0	80.0	81.0
29Dec1991	1.0	80.0	81.0
30Dec1991	1.0	80.0	81.0
31Dec1991	1.0	80.0	81.0
01Jan1992	10.0	80.0	90.0
02Jan1992	10.0	80.6	90.6
03Jan1992	10.0	81.3	91.3
04Jan1992	10.0	81.9	91.9
05Jan1992	10.0	82.6	92.6
06Jan1992	10.0	83.2	93.2
07Jan1992	10.0	83.9	93.9
08Jan1992	10.0	84.5	94.5
09Jan1992	10.0	85.2	95.2
10Jan1992	10.0	85.8	95.8
11Jan1992	10.0	86.5	96.5
12Jan1992	10.0	87.1	97.1
13Jan1992	10.0	87.7	97.7
14Jan1992	10.0	88.4	98.4
15Jan1992	10.0	89.0	99.0

16Jan1992	10.0	89.7	99.7
17Jan1992	10.0	90.3	100.3
18Jan1992	10.0	91.0	101.0
19Jan1992	10.0	91.6	101.6
20Jan1992	10.0	92.3	102.3
21Jan1992	10.0	92.9	102.9
22Jan1992	10.0	93.5	103.5
23Jan1992	10.0	94.2	104.2
24Jan1992	10.0	94.8	104.8
25Jan1992	10.0	95.5	105.5
26Jan1992	10.0	96.1	106.1
27Jan1992	10.0	96.8	106.8
28Jan1992	10.0	97.4	107.4
29Jan1992	10.0	98.1	108.1
30Jan1992	10.0	98.7	108.7
31Jan1992	10.0	99.4	109.4
01Feb1992	30.0	100.0	130.0
02Feb1992	30.0	100.0	130.0
03Feb1992	30.0	100.0	130.0
04Feb1992	30.0	100.0	130.0
05Feb1992	30.0	100.0	130.0
06Feb1992	30.0	100.0	130.0
07Feb1992	30.0	100.0	130.0
08Feb1992	30.0	100.0	130.0
09Feb1992	30.0	100.0	130.0
10Feb1992	30.0	100.0	130.0
11Feb1992	50.0	100.0	150.0
12Feb1992	330.0	180.3	510.3
13Feb1992	2450.0	1338.7	3788.7
14Feb1992	566.0	309.3	875.3
15Feb1992	1430.0	781.4	2211.4
16Feb1992	1570.0	857.9	2427.9
17Feb1992	763.0	416.9	1179.9
18Feb1992	303.0	165.6	468.6
19Feb1992	164.0	100.0	264.0
20Feb1992	116.0	100.0	216.0
21Feb1992	231.0	126.2	357.2
22Feb1992	138.0	100.0	238.0
23Feb1992	90.0	100.0	190.0
24Feb1992	60.0	100.0	160.0
25Feb1992	41.0	100.0	141.0
26Feb1992	31.0	100.0	131.0
27Feb1992	30.0	100.0	130.0
28Feb1992	30.0	100.0	130.0
29Feb1992	30.0	100.0	130.0
01Mar1992	30.0	100.0	130.0
02Mar1992	30.0	100.0	130.0
03Mar1992	30.0	100.0	130.0
04Mar1992	30.0	100.0	130.0
05Mar1992	30.0	100.0	130.0
06Mar1992	467.0	255.2	722.2
07Mar1992	822.0	449.1	1271.1
08Mar1992	193.0	105.5	298.5
09Mar1992	102.0	100.0	202.0
10Mar1992	63.0	100.0	163.0
11Mar1992	45.0	100.0	145.0

12Mar1992	34.0	100.0	134.0
13Mar1992	30.0	100.0	130.0
14Mar1992	30.0	100.0	130.0
15Mar1992	30.0	100.0	130.0
16Mar1992	30.0	100.0	130.0
17Mar1992	30.0	100.0	130.0
18Mar1992	30.0	100.0	130.0
19Mar1992	30.0	100.0	130.0
20Mar1992	30.0	100.0	130.0
21Mar1992	30.0	100.0	130.0
22Mar1992	30.0	100.0	130.0
23Mar1992	30.0	100.0	130.0
24Mar1992	30.0	100.0	130.0
25Mar1992	30.0	100.0	130.0
26Mar1992	30.0	100.0	130.0
27Mar1992	30.0	100.0	130.0
28Mar1992	30.0	100.0	130.0
29Mar1992	30.0	100.0	130.0
30Mar1992	30.0	100.0	130.0
31Mar1992	30.0	100.0	130.0
01Apr1992	40.0	100.0	140.0
02Apr1992	40.0	99.0	139.0
03Apr1992	40.0	98.0	138.0
04Apr1992	40.0	97.0	137.0
05Apr1992	40.0	96.0	136.0
06Apr1992	40.0	95.0	135.0
07Apr1992	40.0	94.0	134.0
08Apr1992	40.0	93.0	133.0
09Apr1992	40.0	92.0	132.0
10Apr1992	40.0	91.0	131.0
11Apr1992	40.0	90.0	130.0
12Apr1992	40.0	89.0	129.0
13Apr1992	40.0	88.0	128.0
14Apr1992	40.0	87.0	127.0
15Apr1992	40.0	86.0	126.0
16Apr1992	40.0	85.0	125.0
17Apr1992	40.0	84.0	124.0
18Apr1992	40.0	83.0	123.0
19Apr1992	40.0	82.0	122.0
20Apr1992	40.0	81.0	121.0
21Apr1992	40.0	80.0	120.0
22Apr1992	40.0	79.0	119.0
23Apr1992	40.0	78.0	118.0
24Apr1992	40.0	77.0	117.0
25Apr1992	40.0	76.0	116.0
26Apr1992	40.0	75.0	115.0
27Apr1992	40.0	74.0	114.0
28Apr1992	40.0	73.0	113.0
29Apr1992	40.0	72.0	112.0
30Apr1992	40.0	71.0	111.0
01May1992	45.0	70.0	115.0
02May1992	45.0	70.0	115.0
03May1992	45.0	70.0	115.0
04May1992	45.0	70.0	115.0
05May1992	45.0	70.0	115.0
06May1992	45.0	70.0	115.0

07May1992	45.0	70.0	115.0
08May1992	45.0	70.0	115.0
09May1992	45.0	70.0	115.0
10May1992	45.0	70.0	115.0
11May1992	45.0	70.0	115.0
12May1992	45.0	70.0	115.0
13May1992	45.0	70.0	115.0
14May1992	45.0	70.0	115.0
15May1992	45.0	70.0	115.0
16May1992	45.0	70.0	115.0
17May1992	45.0	70.0	115.0
18May1992	45.0	70.0	115.0
19May1992	45.0	70.0	115.0
20May1992	45.0	70.0	115.0
21May1992	45.0	70.0	115.0
22May1992	45.0	70.0	115.0
23May1992	45.0	70.0	115.0
24May1992	45.0	70.0	115.0
25May1992	45.0	70.0	115.0
26May1992	45.0	70.0	115.0
27May1992	45.0	70.0	115.0
28May1992	45.0	70.0	115.0
29May1992	45.0	70.0	115.0
30May1992	45.0	70.0	115.0
31May1992	45.0	70.0	115.0
01Jun1992	50.0	70.0	120.0
02Jun1992	50.0	70.0	120.0
03Jun1992	50.0	70.0	120.0
04Jun1992	50.0	70.0	120.0
05Jun1992	50.0	70.0	120.0
06Jun1992	50.0	70.0	120.0
07Jun1992	50.0	70.0	120.0
08Jun1992	50.0	70.0	120.0
09Jun1992	50.0	70.0	120.0
10Jun1992	50.0	70.0	120.0
11Jun1992	50.0	70.0	120.0
12Jun1992	50.0	70.0	120.0
13Jun1992	50.0	70.0	120.0
14Jun1992	50.0	70.0	120.0
15Jun1992	50.0	70.0	120.0
16Jun1992	50.0	70.0	120.0
17Jun1992	50.0	70.0	120.0
18Jun1992	50.0	70.0	120.0
19Jun1992	50.0	70.0	120.0
20Jun1992	50.0	70.0	120.0
21Jun1992	50.0	70.0	120.0
22Jun1992	50.0	70.0	120.0
23Jun1992	50.0	70.0	120.0
24Jun1992	50.0	70.0	120.0
25Jun1992	50.0	70.0	120.0
26Jun1992	50.0	70.0	120.0
27Jun1992	50.0	70.0	120.0
28Jun1992	50.0	70.0	120.0
29Jun1992	50.0	70.0	120.0
30Jun1992	50.0	70.0	120.0
01Jul1992	55.0	70.0	125.0

02Jul1992	55.0	70.0	125.0
03Jul1992	55.0	70.0	125.0
04Jul1992	55.0	70.0	125.0
05Jul1992	55.0	70.0	125.0
06Jul1992	55.0	70.0	125.0
07Jul1992	55.0	70.0	125.0
08Jul1992	55.0	70.0	125.0
09Jul1992	55.0	70.0	125.0
10Jul1992	55.0	70.0	125.0
11Jul1992	55.0	70.0	125.0
12Jul1992	55.0	70.0	125.0
13Jul1992	55.0	70.0	125.0
14Jul1992	55.0	70.0	125.0
15Jul1992	55.0	70.0	125.0
16Jul1992	55.0	70.0	125.0
17Jul1992	55.0	70.0	125.0
18Jul1992	55.0	70.0	125.0
19Jul1992	55.0	70.0	125.0
20Jul1992	55.0	70.0	125.0
21Jul1992	55.0	70.0	125.0
22Jul1992	55.0	70.0	125.0
23Jul1992	55.0	70.0	125.0
24Jul1992	55.0	70.0	125.0
25Jul1992	55.0	70.0	125.0
26Jul1992	55.0	70.0	125.0
27Jul1992	55.0	70.0	125.0
28Jul1992	55.0	70.0	125.0
29Jul1992	55.0	70.0	125.0
30Jul1992	55.0	70.0	125.0
31Jul1992	55.0	70.0	125.0
01Aug1992	70.0	70.0	140.0
02Aug1992	70.0	70.0	140.0
03Aug1992	70.0	70.0	140.0
04Aug1992	70.0	70.0	140.0
05Aug1992	70.0	70.0	140.0
06Aug1992	70.0	70.0	140.0
07Aug1992	70.0	70.0	140.0
08Aug1992	70.0	70.0	140.0
09Aug1992	70.0	70.0	140.0
10Aug1992	70.0	70.0	140.0
11Aug1992	70.0	70.0	140.0
12Aug1992	70.0	70.0	140.0
13Aug1992	70.0	70.0	140.0
14Aug1992	70.0	70.0	140.0
15Aug1992	70.0	70.0	140.0
16Aug1992	70.0	70.0	140.0
17Aug1992	70.0	70.0	140.0
18Aug1992	70.0	70.0	140.0
19Aug1992	70.0	70.0	140.0
20Aug1992	70.0	70.0	140.0
21Aug1992	70.0	70.0	140.0
22Aug1992	70.0	70.0	140.0
23Aug1992	70.0	70.0	140.0
24Aug1992	70.0	70.0	140.0
25Aug1992	70.0	70.0	140.0
26Aug1992	70.0	70.0	140.0

27Aug1992	70.0	70.0	140.0
28Aug1992	70.0	70.0	140.0
29Aug1992	70.0	70.0	140.0
30Aug1992	70.0	70.0	140.0
31Aug1992	70.0	70.0	140.0
01Sep1992	65.0	70.0	135.0
02Sep1992	65.0	70.3	135.3
03Sep1992	65.0	70.7	135.7
04Sep1992	65.0	71.0	136.0
05Sep1992	65.0	71.3	136.3
06Sep1992	65.0	71.7	136.7
07Sep1992	65.0	72.0	137.0
08Sep1992	65.0	72.3	137.3
09Sep1992	65.0	72.7	137.7
10Sep1992	65.0	73.0	138.0
11Sep1992	65.0	73.3	138.3
12Sep1992	65.0	73.7	138.7
13Sep1992	65.0	74.0	139.0
14Sep1992	65.0	74.3	139.3
15Sep1992	65.0	74.7	139.7
16Sep1992	65.0	75.0	140.0
17Sep1992	65.0	75.3	140.3
18Sep1992	65.0	75.7	140.7
19Sep1992	65.0	76.0	141.0
20Sep1992	65.0	76.3	141.3
21Sep1992	65.0	76.7	141.7
22Sep1992	65.0	77.0	142.0
23Sep1992	65.0	77.3	142.3
24Sep1992	65.0	77.7	142.7
25Sep1992	65.0	78.0	143.0
26Sep1992	65.0	78.3	143.3
27Sep1992	65.0	78.7	143.7
28Sep1992	65.0	79.0	144.0
29Sep1992	65.0	79.3	144.3
30Sep1992	65.0	79.7	144.7
01Oct1992	30.0	80.0	110.0
02Oct1992	30.0	80.0	110.0
03Oct1992	30.0	80.0	110.0
04Oct1992	30.0	80.0	110.0
05Oct1992	30.0	80.0	110.0
06Oct1992	30.0	80.0	110.0
07Oct1992	30.0	80.0	110.0
08Oct1992	30.0	80.0	110.0
09Oct1992	30.0	80.0	110.0
10Oct1992	30.0	80.0	110.0
11Oct1992	30.0	80.0	110.0
12Oct1992	30.0	80.0	110.0
13Oct1992	30.0	80.0	110.0
14Oct1992	30.0	80.0	110.0
15Oct1992	30.0	80.0	110.0
16Oct1992	30.0	80.0	110.0
17Oct1992	30.0	80.0	110.0
18Oct1992	30.0	80.0	110.0
19Oct1992	30.0	80.0	110.0
20Oct1992	30.0	80.0	110.0
21Oct1992	30.0	80.0	110.0

22Oct1992	30.0	80.0	110.0
23Oct1992	30.0	80.0	110.0
24Oct1992	30.0	80.0	110.0
25Oct1992	30.0	80.0	110.0
26Oct1992	30.0	80.0	110.0
27Oct1992	30.0	80.0	110.0
28Oct1992	30.0	80.0	110.0
29Oct1992	30.0	80.0	110.0
30Oct1992	30.0	80.0	110.0
31Oct1992	30.0	80.0	110.0
01Nov1992	3.0	80.0	83.0
02Nov1992	3.0	80.0	83.0
03Nov1992	3.0	80.0	83.0
04Nov1992	3.0	80.0	83.0
05Nov1992	3.0	80.0	83.0
06Nov1992	3.0	80.0	83.0
07Nov1992	3.0	80.0	83.0
08Nov1992	3.0	80.0	83.0
09Nov1992	3.0	80.0	83.0
10Nov1992	3.0	80.0	83.0
11Nov1992	3.0	80.0	83.0
12Nov1992	3.0	80.0	83.0
13Nov1992	3.0	80.0	83.0
14Nov1992	3.0	80.0	83.0
15Nov1992	3.0	80.0	83.0
16Nov1992	3.0	80.0	83.0
17Nov1992	3.0	80.0	83.0
18Nov1992	3.0	80.0	83.0
19Nov1992	3.0	80.0	83.0
20Nov1992	3.0	80.0	83.0
21Nov1992	3.0	80.0	83.0
22Nov1992	3.0	80.0	83.0
23Nov1992	3.0	80.0	83.0
24Nov1992	3.0	80.0	83.0
25Nov1992	3.0	80.0	83.0
26Nov1992	3.0	80.0	83.0
27Nov1992	3.0	80.0	83.0
28Nov1992	3.0	80.0	83.0
29Nov1992	3.0	80.0	83.0
30Nov1992	3.0	80.0	83.0
01Dec1992	1.0	80.0	81.0
02Dec1992	1.0	80.0	81.0
03Dec1992	1.0	80.0	81.0
04Dec1992	1.0	80.0	81.0
05Dec1992	1.0	80.0	81.0
06Dec1992	1.0	80.0	81.0
07Dec1992	1.0	80.0	81.0
08Dec1992	1.0	80.0	81.0
09Dec1992	1.0	80.0	81.0
10Dec1992	1.0	80.0	81.0
11Dec1992	1.0	80.0	81.0
12Dec1992	1.0	80.0	81.0
13Dec1992	1.0	80.0	81.0
14Dec1992	1.0	80.0	81.0
15Dec1992	1.0	80.0	81.0
16Dec1992	1.0	80.0	81.0

17Dec1992	1.0	80.0	81.0
18Dec1992	1.0	80.0	81.0
19Dec1992	1.0	80.0	81.0
20Dec1992	1.0	80.0	81.0
21Dec1992	1.0	80.0	81.0
22Dec1992	1.0	80.0	81.0
23Dec1992	1.0	80.0	81.0
24Dec1992	1.0	80.0	81.0
25Dec1992	1.0	80.0	81.0
26Dec1992	1.0	80.0	81.0
27Dec1992	1.0	80.0	81.0
28Dec1992	1.0	80.0	81.0
29Dec1992	1.0	80.0	81.0
30Dec1992	1.0	80.0	81.0
31Dec1992	1.0	80.0	81.0
01Jan1993	10.0	80.0	90.0
02Jan1993	10.0	80.6	90.6
03Jan1993	197.0	107.6	304.6
04Jan1993	70.0	81.9	151.9
05Jan1993	36.0	82.6	118.6
06Jan1993	25.0	83.2	108.2
07Jan1993	31.0	83.9	114.9
08Jan1993	1500.0	819.6	2319.6
09Jan1993	679.0	371.0	1050.0
10Jan1993	866.0	473.2	1339.2
11Jan1993	1080.0	590.1	1670.1
12Jan1993	250.0	136.6	386.6
13Jan1993	759.0	414.7	1173.7
14Jan1993	1940.0	1060.0	3000.0
15Jan1993	1750.0	956.2	2706.2
16Jan1993	630.0	344.2	974.2
17Jan1993	472.0	257.9	729.9
18Jan1993	4120.0	2251.2	6371.2
19Jan1993	1430.0	781.4	2211.4
20Jan1993	395.0	215.8	610.8
21Jan1993	646.0	353.0	999.0
22Jan1993	682.0	372.6	1054.6
23Jan1993	528.0	288.5	816.5
24Jan1993	234.0	127.9	361.9
25Jan1993	170.0	95.5	265.5
26Jan1993	143.0	96.1	239.1
27Jan1993	122.0	96.8	218.8
28Jan1993	107.0	97.4	204.4
29Jan1993	90.0	98.1	188.1
30Jan1993	81.0	98.7	179.7
31Jan1993	69.0	99.4	168.4
01Feb1993	59.0	100.0	159.0
02Feb1993	52.0	100.0	152.0
03Feb1993	43.0	100.0	143.0
04Feb1993	36.0	100.0	136.0
05Feb1993	31.0	100.0	131.0
06Feb1993	28.0	100.0	128.0
07Feb1993	58.0	100.0	158.0
08Feb1993	101.0	100.0	201.0
09Feb1993	2070.0	1131.1	3201.1
10Feb1993	1130.0	617.4	1747.4

11Feb1993	276.0	150.8	426.8
12Feb1993	254.0	138.8	392.8
13Feb1993	157.0	100.0	257.0
14Feb1993	116.0	100.0	216.0
15Feb1993	100.0	100.0	200.0
16Feb1993	81.0	100.0	181.0
17Feb1993	72.0	100.0	172.0
18Feb1993	73.0	100.0	173.0
19Feb1993	235.0	128.4	363.4
20Feb1993	303.0	165.6	468.6
21Feb1993	434.0	237.1	671.1
22Feb1993	204.0	111.5	315.5
23Feb1993	130.0	100.0	230.0
24Feb1993	213.0	116.4	329.4
25Feb1993	184.0	100.5	284.5
26Feb1993	122.0	100.0	222.0
27Feb1993	254.0	138.8	392.8
28Feb1993	218.0	119.1	337.1
01Mar1993	134.0	100.0	234.0
02Mar1993	106.0	100.0	206.0
03Mar1993	87.0	100.0	187.0
04Mar1993	74.0	100.0	174.0
05Mar1993	65.0	100.0	165.0
06Mar1993	55.0	100.0	155.0
07Mar1993	48.0	100.0	148.0
08Mar1993	43.0	100.0	143.0
09Mar1993	38.0	100.0	138.0
10Mar1993	35.0	100.0	135.0
11Mar1993	30.0	100.0	130.0
12Mar1993	31.0	100.0	131.0
13Mar1993	30.0	100.0	130.0
14Mar1993	30.0	100.0	130.0
15Mar1993	30.0	100.0	130.0
16Mar1993	30.0	100.0	130.0
17Mar1993	30.0	100.0	130.0
18Mar1993	30.0	100.0	130.0
19Mar1993	30.0	100.0	130.0
20Mar1993	30.0	100.0	130.0
21Mar1993	30.0	100.0	130.0
22Mar1993	30.0	100.0	130.0
23Mar1993	30.0	100.0	130.0
24Mar1993	30.0	100.0	130.0
25Mar1993	30.0	100.0	130.0
26Mar1993	525.0	286.9	811.9
27Mar1993	755.0	412.5	1167.5
28Mar1993	220.0	120.2	340.2
29Mar1993	208.0	113.7	321.7
30Mar1993	135.0	100.0	235.0
31Mar1993	92.0	100.0	192.0
01Apr1993	68.0	100.0	168.0
02Apr1993	76.0	99.0	175.0
03Apr1993	73.0	98.0	171.0
04Apr1993	53.0	97.0	150.0
05Apr1993	44.0	96.0	140.0
06Apr1993	40.0	95.0	135.0
07Apr1993	146.0	94.0	240.0

08Apr1993	182.0	99.4	281.4
09Apr1993	94.0	92.0	186.0
10Apr1993	40.0	91.0	131.0
11Apr1993	40.0	90.0	130.0
12Apr1993	40.0	89.0	129.0
13Apr1993	40.0	88.0	128.0
14Apr1993	40.0	87.0	127.0
15Apr1993	40.0	86.0	126.0
16Apr1993	40.0	85.0	125.0
17Apr1993	40.0	84.0	124.0
18Apr1993	40.0	83.0	123.0
19Apr1993	40.0	82.0	122.0
20Apr1993	40.0	81.0	121.0
21Apr1993	40.0	80.0	120.0
22Apr1993	40.0	79.0	119.0
23Apr1993	40.0	78.0	118.0
24Apr1993	40.0	77.0	117.0
25Apr1993	40.0	76.0	116.0
26Apr1993	40.0	75.0	115.0
27Apr1993	40.0	74.0	114.0
28Apr1993	40.0	73.0	113.0
29Apr1993	40.0	72.0	112.0
30Apr1993	40.0	71.0	111.0
01May1993	45.0	70.0	115.0
02May1993	45.0	70.0	115.0
03May1993	45.0	70.0	115.0
04May1993	45.0	70.0	115.0
05May1993	45.0	70.0	115.0
06May1993	45.0	70.0	115.0
07May1993	45.0	70.0	115.0
08May1993	45.0	70.0	115.0
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15May1993	45.0	70.0	115.0
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18May1993	45.0	70.0	115.0
19May1993	45.0	70.0	115.0
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21May1993	45.0	70.0	115.0
22May1993	45.0	70.0	115.0
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24May1993	45.0	70.0	115.0
25May1993	45.0	70.0	115.0
26May1993	45.0	70.0	115.0
27May1993	45.0	70.0	115.0
28May1993	45.0	70.0	115.0
29May1993	45.0	70.0	115.0
30May1993	45.0	70.0	115.0
31May1993	45.0	70.0	115.0
01Jun1993	50.0	70.0	120.0
02Jun1993	50.0	70.0	120.0

03Jun1993	50.0	70.0	120.0
04Jun1993	50.0	70.0	120.0
05Jun1993	50.0	70.0	120.0
06Jun1993	50.0	70.0	120.0
07Jun1993	50.0	70.0	120.0
08Jun1993	50.0	70.0	120.0
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13Jun1993	50.0	70.0	120.0
14Jun1993	50.0	70.0	120.0
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22Jun1993	50.0	70.0	120.0
23Jun1993	50.0	70.0	120.0
24Jun1993	50.0	70.0	120.0
25Jun1993	50.0	70.0	120.0
26Jun1993	50.0	70.0	120.0
27Jun1993	50.0	70.0	120.0
28Jun1993	50.0	70.0	120.0
29Jun1993	50.0	70.0	120.0
30Jun1993	50.0	70.0	120.0
01Jul1993	55.0	70.0	125.0
02Jul1993	55.0	70.0	125.0
03Jul1993	55.0	70.0	125.0
04Jul1993	55.0	70.0	125.0
05Jul1993	55.0	70.0	125.0
06Jul1993	55.0	70.0	125.0
07Jul1993	55.0	70.0	125.0
08Jul1993	55.0	70.0	125.0
09Jul1993	55.0	70.0	125.0
10Jul1993	55.0	70.0	125.0
11Jul1993	55.0	70.0	125.0
12Jul1993	55.0	70.0	125.0
13Jul1993	55.0	70.0	125.0
14Jul1993	55.0	70.0	125.0
15Jul1993	55.0	70.0	125.0
16Jul1993	55.0	70.0	125.0
17Jul1993	55.0	70.0	125.0
18Jul1993	55.0	70.0	125.0
19Jul1993	55.0	70.0	125.0
20Jul1993	55.0	70.0	125.0
21Jul1993	55.0	70.0	125.0
22Jul1993	55.0	70.0	125.0
23Jul1993	55.0	70.0	125.0
24Jul1993	55.0	70.0	125.0
25Jul1993	55.0	70.0	125.0
26Jul1993	55.0	70.0	125.0
27Jul1993	55.0	70.0	125.0
28Jul1993	55.0	70.0	125.0

29Jul1993	55.0	70.0	125.0
30Jul1993	55.0	70.0	125.0
31Jul1993	55.0	70.0	125.0
01Aug1993	70.0	70.0	140.0
02Aug1993	70.0	70.0	140.0
03Aug1993	70.0	70.0	140.0
04Aug1993	70.0	70.0	140.0
05Aug1993	70.0	70.0	140.0
06Aug1993	70.0	70.0	140.0
07Aug1993	70.0	70.0	140.0
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10Aug1993	70.0	70.0	140.0
11Aug1993	70.0	70.0	140.0
12Aug1993	70.0	70.0	140.0
13Aug1993	70.0	70.0	140.0
14Aug1993	70.0	70.0	140.0
15Aug1993	70.0	70.0	140.0
16Aug1993	70.0	70.0	140.0
17Aug1993	70.0	70.0	140.0
18Aug1993	70.0	70.0	140.0
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23Aug1993	70.0	70.0	140.0
24Aug1993	70.0	70.0	140.0
25Aug1993	70.0	70.0	140.0
26Aug1993	70.0	70.0	140.0
27Aug1993	70.0	70.0	140.0
28Aug1993	70.0	70.0	140.0
29Aug1993	70.0	70.0	140.0
30Aug1993	70.0	70.0	140.0
31Aug1993	70.0	70.0	140.0
01Sep1993	65.0	70.0	135.0
02Sep1993	65.0	70.3	135.3
03Sep1993	65.0	70.7	135.7
04Sep1993	65.0	71.0	136.0
05Sep1993	65.0	71.3	136.3
06Sep1993	65.0	71.7	136.7
07Sep1993	65.0	72.0	137.0
08Sep1993	65.0	72.3	137.3
09Sep1993	65.0	72.7	137.7
10Sep1993	65.0	73.0	138.0
11Sep1993	65.0	73.3	138.3
12Sep1993	65.0	73.7	138.7
13Sep1993	65.0	74.0	139.0
14Sep1993	65.0	74.3	139.3
15Sep1993	65.0	74.7	139.7
16Sep1993	65.0	75.0	140.0
17Sep1993	65.0	75.3	140.3
18Sep1993	65.0	75.7	140.7
19Sep1993	65.0	76.0	141.0
20Sep1993	65.0	76.3	141.3
21Sep1993	65.0	76.7	141.7
22Sep1993	65.0	77.0	142.0

23Sep1993	65.0	77.3	142.3
24Sep1993	65.0	77.7	142.7
25Sep1993	65.0	78.0	143.0
26Sep1993	65.0	78.3	143.3
27Sep1993	65.0	78.7	143.7
28Sep1993	65.0	79.0	144.0
29Sep1993	65.0	79.3	144.3
30Sep1993	65.0	79.7	144.7
01Oct1993	30.0	80.0	110.0
02Oct1993	30.0	80.0	110.0
03Oct1993	30.0	80.0	110.0
04Oct1993	30.0	80.0	110.0
05Oct1993	30.0	80.0	110.0
06Oct1993	30.0	80.0	110.0
07Oct1993	30.0	80.0	110.0
08Oct1993	30.0	80.0	110.0
09Oct1993	30.0	80.0	110.0
10Oct1993	30.0	80.0	110.0
11Oct1993	30.0	80.0	110.0
12Oct1993	30.0	80.0	110.0
13Oct1993	30.0	80.0	110.0
14Oct1993	30.0	80.0	110.0
15Oct1993	30.0	80.0	110.0
16Oct1993	30.0	80.0	110.0
17Oct1993	30.0	80.0	110.0
18Oct1993	30.0	80.0	110.0
19Oct1993	30.0	80.0	110.0
20Oct1993	30.0	80.0	110.0
21Oct1993	30.0	80.0	110.0
22Oct1993	30.0	80.0	110.0
23Oct1993	30.0	80.0	110.0
24Oct1993	30.0	80.0	110.0
25Oct1993	30.0	80.0	110.0
26Oct1993	30.0	80.0	110.0
27Oct1993	30.0	80.0	110.0
28Oct1993	30.0	80.0	110.0
29Oct1993	30.0	80.0	110.0
30Oct1993	30.0	80.0	110.0
31Oct1993	30.0	80.0	110.0
01Nov1993	3.0	80.0	83.0
02Nov1993	3.0	80.0	83.0
03Nov1993	3.0	80.0	83.0
04Nov1993	3.0	80.0	83.0
05Nov1993	3.0	80.0	83.0
06Nov1993	3.0	80.0	83.0
07Nov1993	3.0	80.0	83.0
08Nov1993	3.0	80.0	83.0
09Nov1993	3.0	80.0	83.0
10Nov1993	3.0	80.0	83.0
11Nov1993	3.0	80.0	83.0
12Nov1993	3.0	80.0	83.0
13Nov1993	3.0	80.0	83.0
14Nov1993	3.0	80.0	83.0
15Nov1993	3.0	80.0	83.0
16Nov1993	3.0	80.0	83.0
17Nov1993	3.0	80.0	83.0

18Nov1993	3.0	80.0	83.0
19Nov1993	3.0	80.0	83.0
20Nov1993	3.0	80.0	83.0
21Nov1993	3.0	80.0	83.0
22Nov1993	3.0	80.0	83.0
23Nov1993	3.0	80.0	83.0
24Nov1993	3.0	80.0	83.0
25Nov1993	3.0	80.0	83.0
26Nov1993	3.0	80.0	83.0
27Nov1993	3.0	80.0	83.0
28Nov1993	3.0	80.0	83.0
29Nov1993	3.0	80.0	83.0
30Nov1993	3.0	80.0	83.0
01Dec1993	1.0	80.0	81.0
02Dec1993	1.0	80.0	81.0
03Dec1993	1.0	80.0	81.0
04Dec1993	1.0	80.0	81.0
05Dec1993	1.0	80.0	81.0
06Dec1993	1.0	80.0	81.0
07Dec1993	1.0	80.0	81.0
08Dec1993	1.0	80.0	81.0
09Dec1993	1.0	80.0	81.0
10Dec1993	1.0	80.0	81.0
11Dec1993	1.0	80.0	81.0
12Dec1993	1.0	80.0	81.0
13Dec1993	1.0	80.0	81.0
14Dec1993	1.0	80.0	81.0
15Dec1993	1.0	80.0	81.0
16Dec1993	1.0	80.0	81.0
17Dec1993	1.0	80.0	81.0
18Dec1993	1.0	80.0	81.0
19Dec1993	1.0	80.0	81.0
20Dec1993	1.0	80.0	81.0
21Dec1993	1.0	80.0	81.0
22Dec1993	1.0	80.0	81.0
23Dec1993	1.0	80.0	81.0
24Dec1993	1.0	80.0	81.0
25Dec1993	1.0	80.0	81.0
26Dec1993	1.0	80.0	81.0
27Dec1993	1.0	80.0	81.0
28Dec1993	1.0	80.0	81.0
29Dec1993	1.0	80.0	81.0
30Dec1993	1.0	80.0	81.0
31Dec1993	1.0	80.0	81.0
01Jan1994	10.0	80.0	90.0
02Jan1994	10.0	80.6	90.6
03Jan1994	10.0	81.3	91.3
04Jan1994	10.0	81.9	91.9
05Jan1994	10.0	82.6	92.6
06Jan1994	10.0	83.2	93.2
07Jan1994	10.0	83.9	93.9
08Jan1994	10.0	84.5	94.5
09Jan1994	10.0	85.2	95.2
10Jan1994	10.0	85.8	95.8
11Jan1994	10.0	86.5	96.5
12Jan1994	10.0	87.1	97.1

13Jan1994	10.0	87.7	97.7
14Jan1994	10.0	88.4	98.4
15Jan1994	10.0	89.0	99.0
16Jan1994	10.0	89.7	99.7
17Jan1994	10.0	90.3	100.3
18Jan1994	10.0	91.0	101.0
19Jan1994	10.0	91.6	101.6
20Jan1994	10.0	92.3	102.3
21Jan1994	10.0	92.9	102.9
22Jan1994	10.0	93.5	103.5
23Jan1994	10.0	94.2	104.2
24Jan1994	10.0	94.8	104.8
25Jan1994	139.0	95.5	234.5
26Jan1994	89.0	96.1	185.1
27Jan1994	31.0	96.8	127.8
28Jan1994	19.0	97.4	116.4
29Jan1994	14.0	98.1	112.1
30Jan1994	11.0	98.7	109.7
31Jan1994	10.0	99.4	109.4
01Feb1994	30.0	100.0	130.0
02Feb1994	30.0	100.0	130.0
03Feb1994	30.0	100.0	130.0
04Feb1994	30.0	100.0	130.0
05Feb1994	30.0	100.0	130.0
06Feb1994	30.0	100.0	130.0
07Feb1994	30.0	100.0	130.0
08Feb1994	176.0	100.0	276.0
09Feb1994	799.0	436.6	1235.6
10Feb1994	165.0	100.0	265.0
11Feb1994	85.0	100.0	185.0
12Feb1994	61.0	100.0	161.0
13Feb1994	50.0	100.0	150.0
14Feb1994	30.0	100.0	130.0
15Feb1994	30.0	100.0	130.0
16Feb1994	30.0	100.0	130.0
17Feb1994	30.0	100.0	130.0
18Feb1994	30.0	100.0	130.0
19Feb1994	64.0	100.0	164.0
20Feb1994	52.0	100.0	152.0
21Feb1994	55.0	100.0	155.0
22Feb1994	75.0	100.0	175.0
23Feb1994	46.0	100.0	146.0
24Feb1994	31.0	100.0	131.0
25Feb1994	30.0	100.0	130.0
26Feb1994	30.0	100.0	130.0
27Feb1994	30.0	100.0	130.0
28Feb1994	30.0	100.0	130.0
01Mar1994	30.0	100.0	130.0
02Mar1994	30.0	100.0	130.0
03Mar1994	30.0	100.0	130.0
04Mar1994	30.0	100.0	130.0
05Mar1994	30.0	100.0	130.0
06Mar1994	30.0	100.0	130.0
07Mar1994	30.0	100.0	130.0
08Mar1994	30.0	100.0	130.0
09Mar1994	30.0	100.0	130.0

10Mar1994	30.0	100.0	130.0
11Mar1994	30.0	100.0	130.0
12Mar1994	30.0	100.0	130.0
13Mar1994	30.0	100.0	130.0
14Mar1994	30.0	100.0	130.0
15Mar1994	30.0	100.0	130.0
16Mar1994	30.0	100.0	130.0
17Mar1994	30.0	100.0	130.0
18Mar1994	30.0	100.0	130.0
19Mar1994	30.0	100.0	130.0
20Mar1994	30.0	100.0	130.0
21Mar1994	30.0	100.0	130.0
22Mar1994	30.0	100.0	130.0
23Mar1994	30.0	100.0	130.0
24Mar1994	30.0	100.0	130.0
25Mar1994	30.0	100.0	130.0
26Mar1994	30.0	100.0	130.0
27Mar1994	30.0	100.0	130.0
28Mar1994	30.0	100.0	130.0
29Mar1994	30.0	100.0	130.0
30Mar1994	30.0	100.0	130.0
31Mar1994	30.0	100.0	130.0
01Apr1994	40.0	100.0	140.0
02Apr1994	40.0	99.0	139.0
03Apr1994	40.0	98.0	138.0
04Apr1994	40.0	97.0	137.0
05Apr1994	40.0	96.0	136.0
06Apr1994	40.0	95.0	135.0
07Apr1994	40.0	94.0	134.0
08Apr1994	40.0	93.0	133.0
09Apr1994	40.0	92.0	132.0
10Apr1994	40.0	91.0	131.0
11Apr1994	40.0	90.0	130.0
12Apr1994	40.0	89.0	129.0
13Apr1994	40.0	88.0	128.0
14Apr1994	40.0	87.0	127.0
15Apr1994	40.0	86.0	126.0
16Apr1994	40.0	85.0	125.0
17Apr1994	40.0	84.0	124.0
18Apr1994	40.0	83.0	123.0
19Apr1994	40.0	82.0	122.0
20Apr1994	40.0	81.0	121.0
21Apr1994	40.0	80.0	120.0
22Apr1994	40.0	79.0	119.0
23Apr1994	40.0	78.0	118.0
24Apr1994	40.0	77.0	117.0
25Apr1994	40.0	76.0	116.0
26Apr1994	40.0	75.0	115.0
27Apr1994	40.0	74.0	114.0
28Apr1994	40.0	73.0	113.0
29Apr1994	40.0	72.0	112.0
30Apr1994	40.0	71.0	111.0
01May1994	45.0	70.0	115.0
02May1994	45.0	70.0	115.0
03May1994	45.0	70.0	115.0
04May1994	45.0	70.0	115.0

05May1994	45.0	70.0	115.0
06May1994	45.0	70.0	115.0
07May1994	45.0	70.0	115.0
08May1994	45.0	70.0	115.0
09May1994	45.0	70.0	115.0
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11May1994	45.0	70.0	115.0
12May1994	45.0	70.0	115.0
13May1994	45.0	70.0	115.0
14May1994	45.0	70.0	115.0
15May1994	45.0	70.0	115.0
16May1994	45.0	70.0	115.0
17May1994	45.0	70.0	115.0
18May1994	45.0	70.0	115.0
19May1994	45.0	70.0	115.0
20May1994	45.0	70.0	115.0
21May1994	45.0	70.0	115.0
22May1994	45.0	70.0	115.0
23May1994	45.0	70.0	115.0
24May1994	45.0	70.0	115.0
25May1994	45.0	70.0	115.0
26May1994	45.0	70.0	115.0
27May1994	45.0	70.0	115.0
28May1994	45.0	70.0	115.0
29May1994	45.0	70.0	115.0
30May1994	45.0	70.0	115.0
31May1994	45.0	70.0	115.0
01Jun1994	50.0	70.0	120.0
02Jun1994	50.0	70.0	120.0
03Jun1994	50.0	70.0	120.0
04Jun1994	50.0	70.0	120.0
05Jun1994	50.0	70.0	120.0
06Jun1994	50.0	70.0	120.0
07Jun1994	50.0	70.0	120.0
08Jun1994	50.0	70.0	120.0
09Jun1994	50.0	70.0	120.0
10Jun1994	50.0	70.0	120.0
11Jun1994	50.0	70.0	120.0
12Jun1994	50.0	70.0	120.0
13Jun1994	50.0	70.0	120.0
14Jun1994	50.0	70.0	120.0
15Jun1994	50.0	70.0	120.0
16Jun1994	50.0	70.0	120.0
17Jun1994	50.0	70.0	120.0
18Jun1994	50.0	70.0	120.0
19Jun1994	50.0	70.0	120.0
20Jun1994	50.0	70.0	120.0
21Jun1994	50.0	70.0	120.0
22Jun1994	50.0	70.0	120.0
23Jun1994	50.0	70.0	120.0
24Jun1994	50.0	70.0	120.0
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26Jun1994	50.0	70.0	120.0
27Jun1994	50.0	70.0	120.0
28Jun1994	50.0	70.0	120.0
29Jun1994	50.0	70.0	120.0

30Jun1994	50.0	70.0	120.0
01Jul1994	55.0	70.0	125.0
02Jul1994	55.0	70.0	125.0
03Jul1994	55.0	70.0	125.0
04Jul1994	55.0	70.0	125.0
05Jul1994	55.0	70.0	125.0
06Jul1994	55.0	70.0	125.0
07Jul1994	55.0	70.0	125.0
08Jul1994	55.0	70.0	125.0
09Jul1994	55.0	70.0	125.0
10Jul1994	55.0	70.0	125.0
11Jul1994	55.0	70.0	125.0
12Jul1994	55.0	70.0	125.0
13Jul1994	55.0	70.0	125.0
14Jul1994	55.0	70.0	125.0
15Jul1994	55.0	70.0	125.0
16Jul1994	55.0	70.0	125.0
17Jul1994	55.0	70.0	125.0
18Jul1994	55.0	70.0	125.0
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20Jul1994	55.0	70.0	125.0
21Jul1994	55.0	70.0	125.0
22Jul1994	55.0	70.0	125.0
23Jul1994	55.0	70.0	125.0
24Jul1994	55.0	70.0	125.0
25Jul1994	55.0	70.0	125.0
26Jul1994	55.0	70.0	125.0
27Jul1994	55.0	70.0	125.0
28Jul1994	55.0	70.0	125.0
29Jul1994	55.0	70.0	125.0
30Jul1994	55.0	70.0	125.0
31Jul1994	55.0	70.0	125.0
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03Aug1994	70.0	70.0	140.0
04Aug1994	70.0	70.0	140.0
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07Aug1994	70.0	70.0	140.0
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23Aug1994	70.0	70.0	140.0
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28Aug1994	70.0	70.0	140.0
29Aug1994	70.0	70.0	140.0
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02Sep1994	65.0	70.3	135.3
03Sep1994	65.0	70.7	135.7
04Sep1994	65.0	71.0	136.0
05Sep1994	65.0	71.3	136.3
06Sep1994	65.0	71.7	136.7
07Sep1994	65.0	72.0	137.0
08Sep1994	65.0	72.3	137.3
09Sep1994	65.0	72.7	137.7
10Sep1994	65.0	73.0	138.0
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13Sep1994	65.0	74.0	139.0
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15Sep1994	65.0	74.7	139.7
16Sep1994	65.0	75.0	140.0
17Sep1994	65.0	75.3	140.3
18Sep1994	65.0	75.7	140.7
19Sep1994	65.0	76.0	141.0
20Sep1994	65.0	76.3	141.3
21Sep1994	65.0	76.7	141.7
22Sep1994	65.0	77.0	142.0
23Sep1994	65.0	77.3	142.3
24Sep1994	65.0	77.7	142.7
25Sep1994	65.0	78.0	143.0
26Sep1994	65.0	78.3	143.3
27Sep1994	65.0	78.7	143.7
28Sep1994	65.0	79.0	144.0
29Sep1994	65.0	79.3	144.3
30Sep1994	65.0	79.7	144.7
01Oct1994	30.0	80.0	110.0
02Oct1994	30.0	80.0	110.0
03Oct1994	30.0	80.0	110.0
04Oct1994	30.0	80.0	110.0
05Oct1994	30.0	80.0	110.0
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15Oct1994	30.0	80.0	110.0
16Oct1994	30.0	80.0	110.0
17Oct1994	30.0	80.0	110.0
18Oct1994	30.0	80.0	110.0
19Oct1994	30.0	80.0	110.0

20Oct1994	30.0	80.0	110.0
21Oct1994	30.0	80.0	110.0
22Oct1994	30.0	80.0	110.0
23Oct1994	30.0	80.0	110.0
24Oct1994	30.0	80.0	110.0
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22Nov1994	3.0	80.0	83.0
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27Nov1994	3.0	80.0	83.0
28Nov1994	3.0	80.0	83.0
29Nov1994	3.0	80.0	83.0
30Nov1994	3.0	80.0	83.0
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03Dec1994	1.0	80.0	81.0
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07Dec1994	1.0	80.0	81.0
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10Dec1994	1.0	80.0	81.0
11Dec1994	1.0	80.0	81.0
12Dec1994	1.0	80.0	81.0
13Dec1994	1.0	80.0	81.0
14Dec1994	1.0	80.0	81.0

15Dec1994	1.0	80.0	81.0
16Dec1994	1.0	80.0	81.0
17Dec1994	1.0	80.0	81.0
18Dec1994	1.0	80.0	81.0
19Dec1994	1.0	80.0	81.0
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21Dec1994	1.0	80.0	81.0
22Dec1994	1.0	80.0	81.0
23Dec1994	1.0	80.0	81.0
24Dec1994	1.0	80.0	81.0
25Dec1994	1.0	80.0	81.0
26Dec1994	1.0	80.0	81.0
27Dec1994	1.0	80.0	81.0
28Dec1994	1.0	80.0	81.0
29Dec1994	1.0	80.0	81.0
30Dec1994	1.0	80.0	81.0
31Dec1994	1.0	80.0	81.0
01Jan1995	10.0	80.0	90.0
02Jan1995	10.0	80.6	90.6
03Jan1995	10.0	81.3	91.3
04Jan1995	10.0	81.9	91.9
05Jan1995	10.0	82.6	92.6
06Jan1995	298.0	162.8	460.8
07Jan1995	236.0	129.0	365.0
08Jan1995	117.0	84.5	201.5
09Jan1995	82.0	85.2	167.2
10Jan1995	346.0	189.1	535.1
11Jan1995	2180.0	1191.2	3371.2
12Jan1995	625.0	341.5	966.5
13Jan1995	390.0	213.1	603.1
14Jan1995	323.0	176.5	499.5
15Jan1995	835.0	456.2	1291.2
16Jan1995	1240.0	677.5	1917.5
17Jan1995	525.0	286.9	811.9
18Jan1995	190.0	103.8	293.8
19Jan1995	129.0	91.6	220.6
20Jan1995	97.0	92.3	189.3
21Jan1995	76.0	92.9	168.9
22Jan1995	77.0	93.5	170.5
23Jan1995	144.0	94.2	238.2
24Jan1995	385.0	210.4	595.4
25Jan1995	3180.0	1737.6	4917.6
26Jan1995	2020.0	1103.7	3123.7
27Jan1995	1740.0	950.7	2690.7
28Jan1995	3110.0	1699.3	4809.3
29Jan1995	858.0	468.8	1326.8
30Jan1995	328.0	179.2	507.2
31Jan1995	207.0	113.1	320.1
01Feb1995	165.0	100.0	265.0
02Feb1995	136.0	100.0	236.0
03Feb1995	113.0	100.0	213.0
04Feb1995	94.0	100.0	194.0
05Feb1995	79.0	100.0	179.0
06Feb1995	68.0	100.0	168.0
07Feb1995	56.0	100.0	156.0
08Feb1995	49.0	100.0	149.0

09Feb1995	43.0	100.0	143.0
10Feb1995	39.0	100.0	139.0
11Feb1995	35.0	100.0	135.0
12Feb1995	32.0	100.0	132.0
13Feb1995	32.0	100.0	132.0
14Feb1995	34.0	100.0	134.0
15Feb1995	97.0	100.0	197.0
16Feb1995	81.0	100.0	181.0
17Feb1995	45.0	100.0	145.0
18Feb1995	33.0	100.0	133.0
19Feb1995	30.0	100.0	130.0
20Feb1995	30.0	100.0	130.0
21Feb1995	30.0	100.0	130.0
22Feb1995	30.0	100.0	130.0
23Feb1995	30.0	100.0	130.0
24Feb1995	30.0	100.0	130.0
25Feb1995	30.0	100.0	130.0
26Feb1995	30.0	100.0	130.0
27Feb1995	30.0	100.0	130.0
28Feb1995	30.0	100.0	130.0
01Mar1995	30.0	100.0	130.0
02Mar1995	30.0	100.0	130.0
03Mar1995	30.0	100.0	130.0
04Mar1995	104.0	100.0	204.0
05Mar1995	136.0	100.0	236.0
06Mar1995	92.0	100.0	192.0
07Mar1995	71.0	100.0	171.0
08Mar1995	46.0	100.0	146.0
09Mar1995	38.0	100.0	138.0
10Mar1995	723.0	395.1	1118.1
11Mar1995	5080.0	2775.7	7855.7
12Mar1995	3200.0	1748.5	4948.5
13Mar1995	846.0	462.3	1308.3
14Mar1995	367.0	200.5	567.5
15Mar1995	268.0	146.4	414.4
16Mar1995	170.0	100.0	270.0
17Mar1995	130.0	100.0	230.0
18Mar1995	107.0	100.0	207.0
19Mar1995	30.0	100.0	130.0
20Mar1995	30.0	100.0	130.0
21Mar1995	670.0	366.1	1036.1
22Mar1995	511.0	279.2	790.2
23Mar1995	2850.0	1557.3	4407.3
24Mar1995	1890.0	1032.7	2922.7
25Mar1995	922.0	503.8	1425.8
26Mar1995	592.0	323.5	915.5
27Mar1995	479.0	261.7	740.7
28Mar1995	429.0	234.4	663.4
29Mar1995	403.0	220.2	623.2
30Mar1995	381.0	208.2	589.2
31Mar1995	368.0	201.1	569.1
01Apr1995	359.0	196.2	555.2
02Apr1995	344.0	188.0	532.0
03Apr1995	87.0	98.0	185.0
04Apr1995	40.0	97.0	137.0
05Apr1995	40.0	96.0	136.0

06Apr1995	40.0	95.0	135.0
07Apr1995	40.0	94.0	134.0
08Apr1995	40.0	93.0	133.0
09Apr1995	40.0	92.0	132.0
10Apr1995	40.0	91.0	131.0
11Apr1995	40.0	90.0	130.0
12Apr1995	40.0	89.0	129.0
13Apr1995	40.0	88.0	128.0
14Apr1995	40.0	87.0	127.0
15Apr1995	40.0	86.0	126.0
16Apr1995	40.0	85.0	125.0
17Apr1995	40.0	84.0	124.0
18Apr1995	40.0	83.0	123.0
19Apr1995	40.0	82.0	122.0
20Apr1995	40.0	81.0	121.0
21Apr1995	40.0	80.0	120.0
22Apr1995	40.0	79.0	119.0
23Apr1995	40.0	78.0	118.0
24Apr1995	40.0	77.0	117.0
25Apr1995	40.0	76.0	116.0
26Apr1995	40.0	75.0	115.0
27Apr1995	40.0	74.0	114.0
28Apr1995	40.0	73.0	113.0
29Apr1995	40.0	72.0	112.0
30Apr1995	40.0	71.0	111.0
01May1995	45.0	70.0	115.0
02May1995	45.0	70.0	115.0
03May1995	45.0	70.0	115.0
04May1995	45.0	70.0	115.0
05May1995	45.0	70.0	115.0
06May1995	45.0	70.0	115.0
07May1995	45.0	70.0	115.0
08May1995	45.0	70.0	115.0
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13May1995	45.0	70.0	115.0
14May1995	45.0	70.0	115.0
15May1995	45.0	70.0	115.0
16May1995	45.0	70.0	115.0
17May1995	45.0	70.0	115.0
18May1995	45.0	70.0	115.0
19May1995	45.0	70.0	115.0
20May1995	45.0	70.0	115.0
21May1995	45.0	70.0	115.0
22May1995	45.0	70.0	115.0
23May1995	45.0	70.0	115.0
24May1995	45.0	70.0	115.0
25May1995	45.0	70.0	115.0
26May1995	45.0	70.0	115.0
27May1995	45.0	70.0	115.0
28May1995	45.0	70.0	115.0
29May1995	45.0	70.0	115.0
30May1995	45.0	70.0	115.0
31May1995	45.0	70.0	115.0

01Jun1995	50.0	70.0	120.0
02Jun1995	50.0	70.0	120.0
03Jun1995	50.0	70.0	120.0
04Jun1995	50.0	70.0	120.0
05Jun1995	50.0	70.0	120.0
06Jun1995	50.0	70.0	120.0
07Jun1995	50.0	70.0	120.0
08Jun1995	50.0	70.0	120.0
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13Jun1995	50.0	70.0	120.0
14Jun1995	50.0	70.0	120.0
15Jun1995	50.0	70.0	120.0
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25Jun1995	50.0	70.0	120.0
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27Jun1995	50.0	70.0	120.0
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29Jun1995	50.0	70.0	120.0
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02Jul1995	55.0	70.0	125.0
03Jul1995	55.0	70.0	125.0
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06Jul1995	55.0	70.0	125.0
07Jul1995	55.0	70.0	125.0
08Jul1995	55.0	70.0	125.0
09Jul1995	55.0	70.0	125.0
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13Jul1995	55.0	70.0	125.0
14Jul1995	55.0	70.0	125.0
15Jul1995	55.0	70.0	125.0
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23Jul1995	55.0	70.0	125.0
24Jul1995	55.0	70.0	125.0
25Jul1995	55.0	70.0	125.0
26Jul1995	55.0	70.0	125.0

27Jul1995	55.0	70.0	125.0
28Jul1995	55.0	70.0	125.0
29Jul1995	55.0	70.0	125.0
30Jul1995	55.0	70.0	125.0
31Jul1995	55.0	70.0	125.0
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07Aug1995	70.0	70.0	140.0
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27Aug1995	70.0	70.0	140.0
28Aug1995	70.0	70.0	140.0
29Aug1995	70.0	70.0	140.0
30Aug1995	70.0	70.0	140.0
31Aug1995	70.0	70.0	140.0
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02Sep1995	65.0	70.3	135.3
03Sep1995	65.0	70.7	135.7
04Sep1995	65.0	71.0	136.0
05Sep1995	65.0	71.3	136.3
06Sep1995	65.0	71.7	136.7
07Sep1995	65.0	72.0	137.0
08Sep1995	65.0	72.3	137.3
09Sep1995	65.0	72.7	137.7
10Sep1995	65.0	73.0	138.0
11Sep1995	65.0	73.3	138.3
12Sep1995	65.0	73.7	138.7
13Sep1995	65.0	74.0	139.0
14Sep1995	65.0	74.3	139.3
15Sep1995	65.0	74.7	139.7
16Sep1995	65.0	75.0	140.0
17Sep1995	65.0	75.3	140.3
18Sep1995	65.0	75.7	140.7
19Sep1995	65.0	76.0	141.0
20Sep1995	65.0	76.3	141.3

21Sep1995	65.0	76.7	141.7
22Sep1995	65.0	77.0	142.0
23Sep1995	65.0	77.3	142.3
24Sep1995	65.0	77.7	142.7
25Sep1995	65.0	78.0	143.0
26Sep1995	65.0	78.3	143.3
27Sep1995	65.0	78.7	143.7
28Sep1995	65.0	79.0	144.0
29Sep1995	65.0	79.3	144.3
30Sep1995	65.0	79.7	144.7
01Oct1995	30.0	80.0	110.0
02Oct1995	30.0	80.0	110.0
03Oct1995	30.0	80.0	110.0
04Oct1995	30.0	80.0	110.0
05Oct1995	30.0	80.0	110.0
06Oct1995	30.0	80.0	110.0
07Oct1995	30.0	80.0	110.0
08Oct1995	30.0	80.0	110.0
09Oct1995	30.0	80.0	110.0
10Oct1995	30.0	80.0	110.0
11Oct1995	30.0	80.0	110.0
12Oct1995	30.0	80.0	110.0
13Oct1995	30.0	80.0	110.0
14Oct1995	30.0	80.0	110.0
15Oct1995	30.0	80.0	110.0
16Oct1995	30.0	80.0	110.0
17Oct1995	30.0	80.0	110.0
18Oct1995	30.0	80.0	110.0
19Oct1995	30.0	80.0	110.0
20Oct1995	30.0	80.0	110.0
21Oct1995	30.0	80.0	110.0
22Oct1995	30.0	80.0	110.0
23Oct1995	30.0	80.0	110.0
24Oct1995	30.0	80.0	110.0
25Oct1995	30.0	80.0	110.0
26Oct1995	30.0	80.0	110.0
27Oct1995	30.0	80.0	110.0
28Oct1995	30.0	80.0	110.0
29Oct1995	30.0	80.0	110.0
30Oct1995	30.0	80.0	110.0
31Oct1995	30.0	80.0	110.0
01Nov1995	3.0	80.0	83.0
02Nov1995	3.0	80.0	83.0
03Nov1995	3.0	80.0	83.0
04Nov1995	3.0	80.0	83.0
05Nov1995	3.0	80.0	83.0
06Nov1995	3.0	80.0	83.0
07Nov1995	3.0	80.0	83.0
08Nov1995	3.0	80.0	83.0
09Nov1995	3.0	80.0	83.0
10Nov1995	3.0	80.0	83.0
11Nov1995	3.0	80.0	83.0
12Nov1995	3.0	80.0	83.0
13Nov1995	3.0	80.0	83.0
14Nov1995	3.0	80.0	83.0
15Nov1995	3.0	80.0	83.0

16Nov1995	3.0	80.0	83.0
17Nov1995	3.0	80.0	83.0
18Nov1995	3.0	80.0	83.0
19Nov1995	3.0	80.0	83.0
20Nov1995	3.0	80.0	83.0
21Nov1995	3.0	80.0	83.0
22Nov1995	3.0	80.0	83.0
23Nov1995	3.0	80.0	83.0
24Nov1995	3.0	80.0	83.0
25Nov1995	3.0	80.0	83.0
26Nov1995	3.0	80.0	83.0
27Nov1995	3.0	80.0	83.0
28Nov1995	3.0	80.0	83.0
29Nov1995	3.0	80.0	83.0
30Nov1995	3.0	80.0	83.0
01Dec1995	1.0	80.0	81.0
02Dec1995	1.0	80.0	81.0
03Dec1995	1.0	80.0	81.0
04Dec1995	1.0	80.0	81.0
05Dec1995	1.0	80.0	81.0
06Dec1995	1.0	80.0	81.0
07Dec1995	1.0	80.0	81.0
08Dec1995	1.0	80.0	81.0
09Dec1995	1.0	80.0	81.0
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11Dec1995	1.0	80.0	81.0
12Dec1995	1.0	80.0	81.0
13Dec1995	1.0	80.0	81.0
14Dec1995	1.0	80.0	81.0
15Dec1995	1.0	80.0	81.0
16Dec1995	1.0	80.0	81.0
17Dec1995	1.0	80.0	81.0
18Dec1995	1.0	80.0	81.0
19Dec1995	1.0	80.0	81.0
20Dec1995	1.0	80.0	81.0
21Dec1995	1.0	80.0	81.0
22Dec1995	1.0	80.0	81.0
23Dec1995	1.0	80.0	81.0
24Dec1995	1.0	80.0	81.0
25Dec1995	1.0	80.0	81.0
26Dec1995	1.0	80.0	81.0
27Dec1995	1.0	80.0	81.0
28Dec1995	1.0	80.0	81.0
29Dec1995	11.0	80.0	91.0
30Dec1995	52.0	80.0	132.0
31Dec1995	97.0	80.0	177.0
01Jan1996	73.0	80.0	153.0
02Jan1996	42.0	80.6	122.6
03Jan1996	39.0	81.3	120.3
04Jan1996	27.0	81.9	108.9
05Jan1996	22.0	82.6	104.6
06Jan1996	10.0	83.2	93.2
07Jan1996	10.0	83.9	93.9
08Jan1996	10.0	84.5	94.5
09Jan1996	10.0	85.2	95.2
10Jan1996	10.0	85.8	95.8

11Jan1996	10.0	86.5	96.5
12Jan1996	10.0	87.1	97.1
13Jan1996	10.0	87.7	97.7
14Jan1996	10.0	88.4	98.4
15Jan1996	10.0	89.0	99.0
16Jan1996	10.0	89.7	99.7
17Jan1996	488.0	266.6	754.6
18Jan1996	289.0	157.9	446.9
19Jan1996	310.0	169.4	479.4
20Jan1996	825.0	450.8	1275.8
21Jan1996	204.0	111.5	315.5
22Jan1996	510.0	278.7	788.7
23Jan1996	175.0	95.6	270.6
24Jan1996	106.0	94.8	200.8
25Jan1996	997.0	544.8	1541.8
26Jan1996	1250.0	683.0	1933.0
27Jan1996	243.0	132.8	375.8
28Jan1996	1400.0	765.0	2165.0
29Jan1996	498.0	272.1	770.1
30Jan1996	199.0	108.7	307.7
31Jan1996	392.0	214.2	606.2
01Feb1996	1300.0	710.3	2010.3
02Feb1996	594.0	324.6	918.6
03Feb1996	392.0	214.2	606.2
04Feb1996	385.0	210.4	595.4
05Feb1996	2080.0	1136.5	3216.5
06Feb1996	849.0	463.9	1312.9
07Feb1996	525.0	286.9	811.9
08Feb1996	441.0	241.0	682.0
09Feb1996	404.0	220.7	624.7
10Feb1996	378.0	206.5	584.5
11Feb1996	359.0	196.2	555.2
12Feb1996	347.0	189.6	536.6
13Feb1996	341.0	186.3	527.3
14Feb1996	339.0	185.2	524.2
15Feb1996	333.0	182.0	515.0
16Feb1996	306.0	167.2	473.2
17Feb1996	296.0	161.7	457.7
18Feb1996	290.0	158.5	448.5
19Feb1996	309.0	168.8	477.8
20Feb1996	808.0	441.5	1249.5
21Feb1996	966.0	527.8	1493.8
22Feb1996	2110.0	1152.9	3262.9
23Feb1996	639.0	349.2	988.2
24Feb1996	259.0	141.5	400.5
25Feb1996	291.0	159.0	450.0
26Feb1996	240.0	131.1	371.1
27Feb1996	135.0	100.0	235.0
28Feb1996	107.0	100.0	207.0
29Feb1996	111.0	100.0	211.0
01Mar1996	82.0	100.0	182.0
02Mar1996	71.0	100.0	171.0
03Mar1996	63.0	100.0	163.0
04Mar1996	56.0	100.0	156.0
05Mar1996	171.0	100.0	271.0
06Mar1996	433.0	236.6	669.6

07Mar1996	174.0	100.0	274.0
08Mar1996	101.0	100.0	201.0
09Mar1996	78.0	100.0	178.0
10Mar1996	64.0	100.0	164.0
11Mar1996	57.0	100.0	157.0
12Mar1996	83.0	100.0	183.0
13Mar1996	486.0	265.6	751.6
14Mar1996	165.0	100.0	265.0
15Mar1996	91.0	100.0	191.0
16Mar1996	69.0	100.0	169.0
17Mar1996	60.0	100.0	160.0
18Mar1996	56.0	100.0	156.0
19Mar1996	53.0	100.0	153.0
20Mar1996	52.0	100.0	152.0
21Mar1996	51.0	100.0	151.0
22Mar1996	48.0	100.0	148.0
23Mar1996	42.0	100.0	142.0
24Mar1996	41.0	100.0	141.0
25Mar1996	40.0	100.0	140.0
26Mar1996	34.0	100.0	134.0
27Mar1996	30.0	100.0	130.0
28Mar1996	30.0	100.0	130.0
29Mar1996	30.0	100.0	130.0
30Mar1996	30.0	100.0	130.0
31Mar1996	30.0	100.0	130.0
01Apr1996	40.0	100.0	140.0
02Apr1996	40.0	99.0	139.0
03Apr1996	40.0	98.0	138.0
04Apr1996	40.0	97.0	137.0
05Apr1996	40.0	96.0	136.0
06Apr1996	40.0	95.0	135.0
07Apr1996	40.0	94.0	134.0
08Apr1996	40.0	93.0	133.0
09Apr1996	40.0	92.0	132.0
10Apr1996	40.0	91.0	131.0
11Apr1996	40.0	90.0	130.0
12Apr1996	40.0	89.0	129.0
13Apr1996	40.0	88.0	128.0
14Apr1996	40.0	87.0	127.0
15Apr1996	40.0	86.0	126.0
16Apr1996	40.0	85.0	125.0
17Apr1996	40.0	84.0	124.0
18Apr1996	40.0	83.0	123.0
19Apr1996	40.0	82.0	122.0
20Apr1996	40.0	81.0	121.0
21Apr1996	40.0	80.0	120.0
22Apr1996	40.0	79.0	119.0
23Apr1996	40.0	78.0	118.0
24Apr1996	40.0	77.0	117.0
25Apr1996	40.0	76.0	116.0
26Apr1996	40.0	75.0	115.0
27Apr1996	40.0	74.0	114.0
28Apr1996	40.0	73.0	113.0
29Apr1996	40.0	72.0	112.0
30Apr1996	40.0	71.0	111.0
01May1996	45.0	70.0	115.0

02May1996	45.0	70.0	115.0
03May1996	45.0	70.0	115.0
04May1996	45.0	70.0	115.0
05May1996	45.0	70.0	115.0
06May1996	45.0	70.0	115.0
07May1996	45.0	70.0	115.0
08May1996	45.0	70.0	115.0
09May1996	45.0	70.0	115.0
10May1996	45.0	70.0	115.0
11May1996	45.0	70.0	115.0
12May1996	45.0	70.0	115.0
13May1996	45.0	70.0	115.0
14May1996	45.0	70.0	115.0
15May1996	45.0	70.0	115.0
16May1996	45.0	70.0	115.0
17May1996	45.0	70.0	115.0
18May1996	45.0	70.0	115.0
19May1996	45.0	70.0	115.0
20May1996	45.0	70.0	115.0
21May1996	45.0	70.0	115.0
22May1996	45.0	70.0	115.0
23May1996	45.0	70.0	115.0
24May1996	45.0	70.0	115.0
25May1996	45.0	70.0	115.0
26May1996	45.0	70.0	115.0
27May1996	45.0	70.0	115.0
28May1996	45.0	70.0	115.0
29May1996	45.0	70.0	115.0
30May1996	45.0	70.0	115.0
31May1996	45.0	70.0	115.0
01Jun1996	50.0	70.0	120.0
02Jun1996	50.0	70.0	120.0
03Jun1996	50.0	70.0	120.0
04Jun1996	50.0	70.0	120.0
05Jun1996	50.0	70.0	120.0
06Jun1996	50.0	70.0	120.0
07Jun1996	50.0	70.0	120.0
08Jun1996	50.0	70.0	120.0
09Jun1996	50.0	70.0	120.0
10Jun1996	50.0	70.0	120.0
11Jun1996	50.0	70.0	120.0
12Jun1996	50.0	70.0	120.0
13Jun1996	50.0	70.0	120.0
14Jun1996	50.0	70.0	120.0
15Jun1996	50.0	70.0	120.0
16Jun1996	50.0	70.0	120.0
17Jun1996	50.0	70.0	120.0
18Jun1996	50.0	70.0	120.0
19Jun1996	50.0	70.0	120.0
20Jun1996	50.0	70.0	120.0
21Jun1996	50.0	70.0	120.0
22Jun1996	50.0	70.0	120.0
23Jun1996	50.0	70.0	120.0
24Jun1996	50.0	70.0	120.0
25Jun1996	50.0	70.0	120.0
26Jun1996	50.0	70.0	120.0

27Jun1996	50.0	70.0	120.0
28Jun1996	50.0	70.0	120.0
29Jun1996	50.0	70.0	120.0
30Jun1996	50.0	70.0	120.0
01Jul1996	55.0	70.0	125.0
02Jul1996	55.0	70.0	125.0
03Jul1996	55.0	70.0	125.0
04Jul1996	55.0	70.0	125.0
05Jul1996	55.0	70.0	125.0
06Jul1996	55.0	70.0	125.0
07Jul1996	55.0	70.0	125.0
08Jul1996	55.0	70.0	125.0
09Jul1996	55.0	70.0	125.0
10Jul1996	55.0	70.0	125.0
11Jul1996	55.0	70.0	125.0
12Jul1996	55.0	70.0	125.0
13Jul1996	55.0	70.0	125.0
14Jul1996	55.0	70.0	125.0
15Jul1996	55.0	70.0	125.0
16Jul1996	55.0	70.0	125.0
17Jul1996	55.0	70.0	125.0
18Jul1996	55.0	70.0	125.0
19Jul1996	55.0	70.0	125.0
20Jul1996	55.0	70.0	125.0
21Jul1996	55.0	70.0	125.0
22Jul1996	55.0	70.0	125.0
23Jul1996	55.0	70.0	125.0
24Jul1996	55.0	70.0	125.0
25Jul1996	55.0	70.0	125.0
26Jul1996	55.0	70.0	125.0
27Jul1996	55.0	70.0	125.0
28Jul1996	55.0	70.0	125.0
29Jul1996	55.0	70.0	125.0
30Jul1996	55.0	70.0	125.0
31Jul1996	55.0	70.0	125.0
01Aug1996	70.0	70.0	140.0
02Aug1996	70.0	70.0	140.0
03Aug1996	70.0	70.0	140.0
04Aug1996	70.0	70.0	140.0
05Aug1996	70.0	70.0	140.0
06Aug1996	70.0	70.0	140.0
07Aug1996	70.0	70.0	140.0
08Aug1996	70.0	70.0	140.0
09Aug1996	70.0	70.0	140.0
10Aug1996	70.0	70.0	140.0
11Aug1996	70.0	70.0	140.0
12Aug1996	70.0	70.0	140.0
13Aug1996	70.0	70.0	140.0
14Aug1996	70.0	70.0	140.0
15Aug1996	70.0	70.0	140.0
16Aug1996	70.0	70.0	140.0
17Aug1996	70.0	70.0	140.0
18Aug1996	70.0	70.0	140.0
19Aug1996	70.0	70.0	140.0
20Aug1996	70.0	70.0	140.0
21Aug1996	70.0	70.0	140.0

22Aug1996	70.0	70.0	140.0
23Aug1996	70.0	70.0	140.0
24Aug1996	70.0	70.0	140.0
25Aug1996	70.0	70.0	140.0
26Aug1996	70.0	70.0	140.0
27Aug1996	70.0	70.0	140.0
28Aug1996	70.0	70.0	140.0
29Aug1996	70.0	70.0	140.0
30Aug1996	70.0	70.0	140.0
31Aug1996	70.0	70.0	140.0
01Sep1996	65.0	70.0	135.0
02Sep1996	65.0	70.3	135.3
03Sep1996	65.0	70.7	135.7
04Sep1996	65.0	71.0	136.0
05Sep1996	65.0	71.3	136.3
06Sep1996	65.0	71.7	136.7
07Sep1996	65.0	72.0	137.0
08Sep1996	65.0	72.3	137.3
09Sep1996	65.0	72.7	137.7
10Sep1996	65.0	73.0	138.0
11Sep1996	65.0	73.3	138.3
12Sep1996	65.0	73.7	138.7
13Sep1996	65.0	74.0	139.0
14Sep1996	65.0	74.3	139.3
15Sep1996	65.0	74.7	139.7
16Sep1996	65.0	75.0	140.0
17Sep1996	65.0	75.3	140.3
18Sep1996	65.0	75.7	140.7
19Sep1996	65.0	76.0	141.0
20Sep1996	65.0	76.3	141.3
21Sep1996	65.0	76.7	141.7
22Sep1996	65.0	77.0	142.0
23Sep1996	65.0	77.3	142.3
24Sep1996	65.0	77.7	142.7
25Sep1996	65.0	78.0	143.0
26Sep1996	65.0	78.3	143.3
27Sep1996	65.0	78.7	143.7
28Sep1996	65.0	79.0	144.0
29Sep1996	65.0	79.3	144.3
30Sep1996	65.0	79.7	144.7
01Oct1996	30.0	80.0	110.0
02Oct1996	30.0	80.0	110.0
03Oct1996	30.0	80.0	110.0
04Oct1996	30.0	80.0	110.0
05Oct1996	30.0	80.0	110.0
06Oct1996	30.0	80.0	110.0
07Oct1996	30.0	80.0	110.0
08Oct1996	30.0	80.0	110.0
09Oct1996	30.0	80.0	110.0
10Oct1996	30.0	80.0	110.0
11Oct1996	30.0	80.0	110.0
12Oct1996	30.0	80.0	110.0
13Oct1996	30.0	80.0	110.0
14Oct1996	30.0	80.0	110.0
15Oct1996	30.0	80.0	110.0
16Oct1996	30.0	80.0	110.0

17Oct1996	30.0	80.0	110.0
18Oct1996	30.0	80.0	110.0
19Oct1996	30.0	80.0	110.0
20Oct1996	30.0	80.0	110.0
21Oct1996	30.0	80.0	110.0
22Oct1996	30.0	80.0	110.0
23Oct1996	30.0	80.0	110.0
24Oct1996	30.0	80.0	110.0
25Oct1996	30.0	80.0	110.0
26Oct1996	30.0	80.0	110.0
27Oct1996	30.0	80.0	110.0
28Oct1996	30.0	80.0	110.0
29Oct1996	30.0	80.0	110.0
30Oct1996	30.0	80.0	110.0
31Oct1996	30.0	80.0	110.0
01Nov1996	3.0	80.0	83.0
02Nov1996	3.0	80.0	83.0
03Nov1996	3.0	80.0	83.0
04Nov1996	3.0	80.0	83.0
05Nov1996	3.0	80.0	83.0
06Nov1996	3.0	80.0	83.0
07Nov1996	3.0	80.0	83.0
08Nov1996	3.0	80.0	83.0
09Nov1996	3.0	80.0	83.0
10Nov1996	3.0	80.0	83.0
11Nov1996	3.0	80.0	83.0
12Nov1996	3.0	80.0	83.0
13Nov1996	3.0	80.0	83.0
14Nov1996	3.0	80.0	83.0
15Nov1996	3.0	80.0	83.0
16Nov1996	3.0	80.0	83.0
17Nov1996	3.0	80.0	83.0
18Nov1996	3.0	80.0	83.0
19Nov1996	3.0	80.0	83.0
20Nov1996	3.0	80.0	83.0
21Nov1996	3.0	80.0	83.0
22Nov1996	3.0	80.0	83.0
23Nov1996	3.0	80.0	83.0
24Nov1996	3.0	80.0	83.0
25Nov1996	3.0	80.0	83.0
26Nov1996	3.0	80.0	83.0
27Nov1996	3.0	80.0	83.0
28Nov1996	3.0	80.0	83.0
29Nov1996	3.0	80.0	83.0
30Nov1996	3.0	80.0	83.0
01Dec1996	1.0	80.0	81.0
02Dec1996	1.0	80.0	81.0
03Dec1996	1.0	80.0	81.0
04Dec1996	1.0	80.0	81.0
05Dec1996	1.0	80.0	81.0
06Dec1996	224.0	122.4	346.4
07Dec1996	171.0	93.4	264.4
08Dec1996	60.0	80.0	140.0
09Dec1996	33.0	80.0	113.0
10Dec1996	381.0	208.2	589.2
11Dec1996	2440.0	1333.2	3773.2

12Dec1996	931.0	508.7	1439.7
13Dec1996	598.0	326.8	924.8
14Dec1996	413.0	225.7	638.7
15Dec1996	187.0	102.2	289.2
16Dec1996	113.0	80.0	193.0
17Dec1996	82.0	80.0	162.0
18Dec1996	69.0	80.0	149.0
19Dec1996	61.0	80.0	141.0
20Dec1996	56.0	80.0	136.0
21Dec1996	66.0	80.0	146.0
22Dec1996	3710.0	2027.2	5737.2
23Dec1996	2480.0	1355.1	3835.1
24Dec1996	511.0	279.2	790.2
25Dec1996	207.0	113.1	320.1
26Dec1996	146.0	80.0	226.0
27Dec1996	140.0	80.0	220.0
28Dec1996	165.0	90.2	255.2
29Dec1996	125.0	80.0	205.0
30Dec1996	116.0	80.0	196.0
31Dec1996	905.0	494.5	1399.5
01Jan1997	515.0	281.4	796.4
02Jan1997	2140.0	1169.3	3309.3
03Jan1997	3380.0	1846.8	5226.8
04Jan1997	967.0	528.4	1495.4
05Jan1997	267.0	145.9	412.9
06Jan1997	164.0	89.6	253.6
07Jan1997	103.0	83.9	186.9
08Jan1997	73.0	84.5	157.5
09Jan1997	64.0	85.2	149.2
10Jan1997	61.0	85.8	146.8
11Jan1997	62.0	86.5	148.5
12Jan1997	72.0	87.1	159.1
13Jan1997	100.0	87.7	187.7
14Jan1997	168.0	91.8	259.8
15Jan1997	121.0	89.0	210.0
16Jan1997	161.0	89.7	250.7
17Jan1997	172.0	94.0	266.0
18Jan1997	136.0	91.0	227.0
19Jan1997	125.0	91.6	216.6
20Jan1997	124.0	92.3	216.3
21Jan1997	864.0	472.1	1336.1
22Jan1997	936.0	511.4	1447.4
23Jan1997	2730.0	1491.7	4221.7
24Jan1997	1570.0	857.9	2427.9
25Jan1997	642.0	350.8	992.8
26Jan1997	1380.0	754.0	2134.0
27Jan1997	2590.0	1415.2	4005.2
28Jan1997	521.0	284.7	805.7
29Jan1997	282.0	154.1	436.1
30Jan1997	197.0	107.6	304.6
31Jan1997	153.0	99.4	252.4
01Feb1997	130.0	100.0	230.0
02Feb1997	116.0	100.0	216.0
03Feb1997	109.0	100.0	209.0
04Feb1997	91.0	100.0	191.0
05Feb1997	82.0	100.0	182.0

06Feb1997	73.0	100.0	173.0
07Feb1997	67.0	100.0	167.0
08Feb1997	65.0	100.0	165.0
09Feb1997	60.0	100.0	160.0
10Feb1997	57.0	100.0	157.0
11Feb1997	55.0	100.0	155.0
12Feb1997	53.0	100.0	153.0
13Feb1997	51.0	100.0	151.0
14Feb1997	43.0	100.0	143.0
15Feb1997	36.0	100.0	136.0
16Feb1997	34.0	100.0	134.0
17Feb1997	31.0	100.0	131.0
18Feb1997	30.0	100.0	130.0
19Feb1997	30.0	100.0	130.0
20Feb1997	30.0	100.0	130.0
21Feb1997	30.0	100.0	130.0
22Feb1997	30.0	100.0	130.0
23Feb1997	30.0	100.0	130.0
24Feb1997	30.0	100.0	130.0
25Feb1997	30.0	100.0	130.0
26Feb1997	30.0	100.0	130.0
27Feb1997	30.0	100.0	130.0
28Feb1997	30.0	100.0	130.0
01Mar1997	30.0	100.0	130.0
02Mar1997	30.0	100.0	130.0
03Mar1997	30.0	100.0	130.0
04Mar1997	30.0	100.0	130.0
05Mar1997	30.0	100.0	130.0
06Mar1997	30.0	100.0	130.0
07Mar1997	30.0	100.0	130.0
08Mar1997	30.0	100.0	130.0
09Mar1997	30.0	100.0	130.0
10Mar1997	30.0	100.0	130.0
11Mar1997	30.0	100.0	130.0
12Mar1997	30.0	100.0	130.0
13Mar1997	30.0	100.0	130.0
14Mar1997	30.0	100.0	130.0
15Mar1997	30.0	100.0	130.0
16Mar1997	30.0	100.0	130.0
17Mar1997	30.0	100.0	130.0
18Mar1997	30.0	100.0	130.0
19Mar1997	30.0	100.0	130.0
20Mar1997	30.0	100.0	130.0
21Mar1997	30.0	100.0	130.0
22Mar1997	30.0	100.0	130.0
23Mar1997	30.0	100.0	130.0
24Mar1997	30.0	100.0	130.0
25Mar1997	30.0	100.0	130.0
26Mar1997	30.0	100.0	130.0
27Mar1997	30.0	100.0	130.0
28Mar1997	30.0	100.0	130.0
29Mar1997	30.0	100.0	130.0
30Mar1997	30.0	100.0	130.0
31Mar1997	30.0	100.0	130.0
01Apr1997	40.0	100.0	140.0
02Apr1997	40.0	99.0	139.0

03Apr1997	40.0	98.0	138.0
04Apr1997	40.0	97.0	137.0
05Apr1997	40.0	96.0	136.0
06Apr1997	40.0	95.0	135.0
07Apr1997	40.0	94.0	134.0
08Apr1997	40.0	93.0	133.0
09Apr1997	40.0	92.0	132.0
10Apr1997	40.0	91.0	131.0
11Apr1997	40.0	90.0	130.0
12Apr1997	40.0	89.0	129.0
13Apr1997	40.0	88.0	128.0
14Apr1997	40.0	87.0	127.0
15Apr1997	40.0	86.0	126.0
16Apr1997	40.0	85.0	125.0
17Apr1997	40.0	84.0	124.0
18Apr1997	40.0	83.0	123.0
19Apr1997	40.0	82.0	122.0
20Apr1997	40.0	81.0	121.0
21Apr1997	40.0	80.0	120.0
22Apr1997	40.0	79.0	119.0
23Apr1997	40.0	78.0	118.0
24Apr1997	40.0	77.0	117.0
25Apr1997	40.0	76.0	116.0
26Apr1997	40.0	75.0	115.0
27Apr1997	40.0	74.0	114.0
28Apr1997	40.0	73.0	113.0
29Apr1997	40.0	72.0	112.0
30Apr1997	40.0	71.0	111.0
01May1997	45.0	70.0	115.0
02May1997	45.0	70.0	115.0
03May1997	45.0	70.0	115.0
04May1997	45.0	70.0	115.0
05May1997	45.0	70.0	115.0
06May1997	45.0	70.0	115.0
07May1997	45.0	70.0	115.0
08May1997	45.0	70.0	115.0
09May1997	45.0	70.0	115.0
10May1997	45.0	70.0	115.0
11May1997	45.0	70.0	115.0
12May1997	45.0	70.0	115.0
13May1997	45.0	70.0	115.0
14May1997	45.0	70.0	115.0
15May1997	45.0	70.0	115.0
16May1997	45.0	70.0	115.0
17May1997	45.0	70.0	115.0
18May1997	45.0	70.0	115.0
19May1997	45.0	70.0	115.0
20May1997	45.0	70.0	115.0
21May1997	45.0	70.0	115.0
22May1997	45.0	70.0	115.0
23May1997	45.0	70.0	115.0
24May1997	45.0	70.0	115.0
25May1997	45.0	70.0	115.0
26May1997	45.0	70.0	115.0
27May1997	45.0	70.0	115.0
28May1997	45.0	70.0	115.0

29May1997	45.0	70.0	115.0
30May1997	45.0	70.0	115.0
31May1997	45.0	70.0	115.0
01Jun1997	50.0	70.0	120.0
02Jun1997	50.0	70.0	120.0
03Jun1997	50.0	70.0	120.0
04Jun1997	50.0	70.0	120.0
05Jun1997	50.0	70.0	120.0
06Jun1997	50.0	70.0	120.0
07Jun1997	50.0	70.0	120.0
08Jun1997	50.0	70.0	120.0
09Jun1997	50.0	70.0	120.0
10Jun1997	50.0	70.0	120.0
11Jun1997	50.0	70.0	120.0
12Jun1997	50.0	70.0	120.0
13Jun1997	50.0	70.0	120.0
14Jun1997	50.0	70.0	120.0
15Jun1997	50.0	70.0	120.0
16Jun1997	50.0	70.0	120.0
17Jun1997	50.0	70.0	120.0
18Jun1997	50.0	70.0	120.0
19Jun1997	50.0	70.0	120.0
20Jun1997	50.0	70.0	120.0
21Jun1997	50.0	70.0	120.0
22Jun1997	50.0	70.0	120.0
23Jun1997	50.0	70.0	120.0
24Jun1997	50.0	70.0	120.0
25Jun1997	50.0	70.0	120.0
26Jun1997	50.0	70.0	120.0
27Jun1997	50.0	70.0	120.0
28Jun1997	50.0	70.0	120.0
29Jun1997	50.0	70.0	120.0
30Jun1997	50.0	70.0	120.0
01Jul1997	55.0	70.0	125.0
02Jul1997	55.0	70.0	125.0
03Jul1997	55.0	70.0	125.0
04Jul1997	55.0	70.0	125.0
05Jul1997	55.0	70.0	125.0
06Jul1997	55.0	70.0	125.0
07Jul1997	55.0	70.0	125.0
08Jul1997	55.0	70.0	125.0
09Jul1997	55.0	70.0	125.0
10Jul1997	55.0	70.0	125.0
11Jul1997	55.0	70.0	125.0
12Jul1997	55.0	70.0	125.0
13Jul1997	55.0	70.0	125.0
14Jul1997	55.0	70.0	125.0
15Jul1997	55.0	70.0	125.0
16Jul1997	55.0	70.0	125.0
17Jul1997	55.0	70.0	125.0
18Jul1997	55.0	70.0	125.0
19Jul1997	55.0	70.0	125.0
20Jul1997	55.0	70.0	125.0
21Jul1997	55.0	70.0	125.0
22Jul1997	55.0	70.0	125.0
23Jul1997	55.0	70.0	125.0

24Jul1997	55.0	70.0	125.0
25Jul1997	55.0	70.0	125.0
26Jul1997	55.0	70.0	125.0
27Jul1997	55.0	70.0	125.0
28Jul1997	55.0	70.0	125.0
29Jul1997	55.0	70.0	125.0
30Jul1997	55.0	70.0	125.0
31Jul1997	55.0	70.0	125.0
01Aug1997	70.0	70.0	140.0
02Aug1997	70.0	70.0	140.0
03Aug1997	70.0	70.0	140.0
04Aug1997	70.0	70.0	140.0
05Aug1997	70.0	70.0	140.0
06Aug1997	70.0	70.0	140.0
07Aug1997	70.0	70.0	140.0
08Aug1997	70.0	70.0	140.0
09Aug1997	70.0	70.0	140.0
10Aug1997	70.0	70.0	140.0
11Aug1997	70.0	70.0	140.0
12Aug1997	70.0	70.0	140.0
13Aug1997	70.0	70.0	140.0
14Aug1997	70.0	70.0	140.0
15Aug1997	70.0	70.0	140.0
16Aug1997	70.0	70.0	140.0
17Aug1997	70.0	70.0	140.0
18Aug1997	70.0	70.0	140.0
19Aug1997	70.0	70.0	140.0
20Aug1997	70.0	70.0	140.0
21Aug1997	70.0	70.0	140.0
22Aug1997	70.0	70.0	140.0
23Aug1997	70.0	70.0	140.0
24Aug1997	70.0	70.0	140.0
25Aug1997	70.0	70.0	140.0
26Aug1997	70.0	70.0	140.0
27Aug1997	70.0	70.0	140.0
28Aug1997	70.0	70.0	140.0
29Aug1997	70.0	70.0	140.0
30Aug1997	70.0	70.0	140.0
31Aug1997	70.0	70.0	140.0
01Sep1997	65.0	70.0	135.0
02Sep1997	65.0	70.3	135.3
03Sep1997	65.0	70.7	135.7
04Sep1997	65.0	71.0	136.0
05Sep1997	65.0	71.3	136.3
06Sep1997	65.0	71.7	136.7
07Sep1997	65.0	72.0	137.0
08Sep1997	65.0	72.3	137.3
09Sep1997	65.0	72.7	137.7
10Sep1997	65.0	73.0	138.0
11Sep1997	65.0	73.3	138.3
12Sep1997	65.0	73.7	138.7
13Sep1997	65.0	74.0	139.0
14Sep1997	65.0	74.3	139.3
15Sep1997	65.0	74.7	139.7
16Sep1997	65.0	75.0	140.0
17Sep1997	65.0	75.3	140.3

18Sep1997	65.0	75.7	140.7
19Sep1997	65.0	76.0	141.0
20Sep1997	65.0	76.3	141.3
21Sep1997	65.0	76.7	141.7
22Sep1997	65.0	77.0	142.0
23Sep1997	65.0	77.3	142.3
24Sep1997	65.0	77.7	142.7
25Sep1997	65.0	78.0	143.0
26Sep1997	65.0	78.3	143.3
27Sep1997	65.0	78.7	143.7
28Sep1997	65.0	79.0	144.0
29Sep1997	65.0	79.3	144.3
30Sep1997	65.0	79.7	144.7
01Oct1997	30.0	80.0	110.0
02Oct1997	30.0	80.0	110.0
03Oct1997	30.0	80.0	110.0
04Oct1997	30.0	80.0	110.0
05Oct1997	30.0	80.0	110.0
06Oct1997	30.0	80.0	110.0
07Oct1997	30.0	80.0	110.0
08Oct1997	30.0	80.0	110.0
09Oct1997	30.0	80.0	110.0
10Oct1997	30.0	80.0	110.0
11Oct1997	30.0	80.0	110.0
12Oct1997	30.0	80.0	110.0
13Oct1997	30.0	80.0	110.0
14Oct1997	30.0	80.0	110.0
15Oct1997	30.0	80.0	110.0
16Oct1997	30.0	80.0	110.0
17Oct1997	30.0	80.0	110.0
18Oct1997	30.0	80.0	110.0
19Oct1997	30.0	80.0	110.0
20Oct1997	30.0	80.0	110.0
21Oct1997	30.0	80.0	110.0
22Oct1997	30.0	80.0	110.0
23Oct1997	30.0	80.0	110.0
24Oct1997	30.0	80.0	110.0
25Oct1997	30.0	80.0	110.0
26Oct1997	30.0	80.0	110.0
27Oct1997	30.0	80.0	110.0
28Oct1997	30.0	80.0	110.0
29Oct1997	30.0	80.0	110.0
30Oct1997	30.0	80.0	110.0
31Oct1997	30.0	80.0	110.0
01Nov1997	3.0	80.0	83.0
02Nov1997	3.0	80.0	83.0
03Nov1997	3.0	80.0	83.0
04Nov1997	3.0	80.0	83.0
05Nov1997	3.0	80.0	83.0
06Nov1997	3.0	80.0	83.0
07Nov1997	3.0	80.0	83.0
08Nov1997	3.0	80.0	83.0
09Nov1997	3.0	80.0	83.0
10Nov1997	3.0	80.0	83.0
11Nov1997	3.0	80.0	83.0
12Nov1997	3.0	80.0	83.0

13Nov1997	3.0	80.0	83.0
14Nov1997	3.0	80.0	83.0
15Nov1997	3.0	80.0	83.0
16Nov1997	3.0	80.0	83.0
17Nov1997	3.0	80.0	83.0
18Nov1997	3.0	80.0	83.0
19Nov1997	3.0	80.0	83.0
20Nov1997	3.0	80.0	83.0
21Nov1997	3.0	80.0	83.0
22Nov1997	3.0	80.0	83.0
23Nov1997	3.0	80.0	83.0
24Nov1997	3.0	80.0	83.0
25Nov1997	3.0	80.0	83.0
26Nov1997	3.0	80.0	83.0
27Nov1997	3.0	80.0	83.0
28Nov1997	3.0	80.0	83.0
29Nov1997	3.0	80.0	83.0
30Nov1997	3.0	80.0	83.0
01Dec1997	1.0	80.0	81.0
02Dec1997	1.0	80.0	81.0
03Dec1997	1.0	80.0	81.0
04Dec1997	1.0	80.0	81.0
05Dec1997	1.0	80.0	81.0
06Dec1997	1.0	80.0	81.0
07Dec1997	1.0	80.0	81.0
08Dec1997	1.0	80.0	81.0
09Dec1997	1.0	80.0	81.0
10Dec1997	1.0	80.0	81.0
11Dec1997	1.0	80.0	81.0
12Dec1997	1.0	80.0	81.0
13Dec1997	1.0	80.0	81.0
14Dec1997	1.0	80.0	81.0
15Dec1997	1.0	80.0	81.0
16Dec1997	1.0	80.0	81.0
17Dec1997	1.0	80.0	81.0
18Dec1997	1.0	80.0	81.0
19Dec1997	1.0	80.0	81.0
20Dec1997	1.0	80.0	81.0
21Dec1997	1.0	80.0	81.0
22Dec1997	1.0	80.0	81.0
23Dec1997	1.0	80.0	81.0
24Dec1997	1.0	80.0	81.0
25Dec1997	1.0	80.0	81.0
26Dec1997	1.0	80.0	81.0
27Dec1997	1.0	80.0	81.0
28Dec1997	1.0	80.0	81.0
29Dec1997	1.0	80.0	81.0
30Dec1997	1.0	80.0	81.0
31Dec1997	1.0	80.0	81.0
01Jan1998	10.0	80.0	90.0
02Jan1998	10.0	80.6	90.6
03Jan1998	10.0	81.3	91.3
04Jan1998	10.0	81.9	91.9
05Jan1998	185.0	101.1	286.1
06Jan1998	174.0	95.1	269.1
07Jan1998	67.0	83.9	150.9

08Jan1998	39.0	84.5	123.5
09Jan1998	31.0	85.2	116.2
10Jan1998	62.0	85.8	147.8
11Jan1998	427.0	233.3	660.3
12Jan1998	1060.0	579.2	1639.2
13Jan1998	3210.0	1754.0	4964.0
14Jan1998	700.0	382.5	1082.5
15Jan1998	1610.0	879.7	2489.7
16Jan1998	4630.0	2529.9	7159.9
17Jan1998	1060.0	579.2	1639.2
18Jan1998	378.0	206.5	584.5
19Jan1998	771.0	421.3	1192.3
20Jan1998	590.0	322.4	912.4
21Jan1998	211.0	115.3	326.3
22Jan1998	139.0	93.5	232.5
23Jan1998	109.0	94.2	203.2
24Jan1998	90.0	94.8	184.8
25Jan1998	75.0	95.5	170.5
26Jan1998	64.0	96.1	160.1
27Jan1998	57.0	96.8	153.8
28Jan1998	51.0	97.4	148.4
29Jan1998	50.0	98.1	148.1
30Jan1998	676.0	369.4	1045.4
31Jan1998	182.0	99.4	281.4
01Feb1998	111.0	100.0	211.0
02Feb1998	267.0	145.9	412.9
03Feb1998	3210.0	1754.0	4964.0
04Feb1998	4530.0	2475.2	7005.2
05Feb1998	825.0	450.8	1275.8
06Feb1998	606.0	331.1	937.1
07Feb1998	2740.0	1497.2	4237.2
08Feb1998	3650.0	1994.4	5644.4
09Feb1998	2020.0	1103.7	3123.7
10Feb1998	799.0	436.6	1235.6
11Feb1998	926.0	506.0	1432.0
12Feb1998	693.0	378.7	1071.7
13Feb1998	814.0	444.8	1258.8
14Feb1998	550.0	300.5	850.5
15Feb1998	1740.0	950.7	2690.7
16Feb1998	586.0	320.2	906.2
17Feb1998	354.0	193.4	547.4
18Feb1998	563.0	307.6	870.6
19Feb1998	518.0	283.0	801.0
20Feb1998	1760.0	961.7	2721.7
21Feb1998	879.0	480.3	1359.3
22Feb1998	1900.0	1038.2	2938.2
23Feb1998	694.0	379.2	1073.2
24Feb1998	885.0	483.6	1368.6
25Feb1998	363.0	198.3	561.3
26Feb1998	210.0	114.7	324.7
27Feb1998	155.0	100.0	255.0
28Feb1998	130.0	100.0	230.0
01Mar1998	111.0	100.0	211.0
02Mar1998	96.0	100.0	196.0
03Mar1998	84.0	100.0	184.0
04Mar1998	76.0	100.0	176.0

05Mar1998	70.0	100.0	170.0
06Mar1998	68.0	100.0	168.0
07Mar1998	107.0	100.0	207.0
08Mar1998	82.0	100.0	182.0
09Mar1998	68.0	100.0	168.0
10Mar1998	63.0	100.0	163.0
11Mar1998	60.0	100.0	160.0
12Mar1998	57.0	100.0	157.0
13Mar1998	54.0	100.0	154.0
14Mar1998	50.0	100.0	150.0
15Mar1998	47.0	100.0	147.0
16Mar1998	49.0	100.0	149.0
17Mar1998	43.0	100.0	143.0
18Mar1998	40.0	100.0	140.0
19Mar1998	40.0	100.0	140.0
20Mar1998	39.0	100.0	139.0
21Mar1998	37.0	100.0	137.0
22Mar1998	37.0	100.0	137.0
23Mar1998	37.0	100.0	137.0
24Mar1998	34.0	100.0	134.0
25Mar1998	1490.0	814.1	2304.1
26Mar1998	1160.0	633.8	1793.8
27Mar1998	267.0	145.9	412.9
28Mar1998	421.0	230.0	651.0
29Mar1998	325.0	177.6	502.6
30Mar1998	168.0	100.0	268.0
31Mar1998	127.0	100.0	227.0
01Apr1998	138.0	100.0	238.0
02Apr1998	227.0	124.0	351.0
03Apr1998	243.0	132.8	375.8
04Apr1998	823.0	449.7	1272.7
05Apr1998	281.0	153.5	434.5
06Apr1998	148.0	95.0	243.0
07Apr1998	128.0	94.0	222.0
08Apr1998	196.0	107.1	303.1
09Apr1998	122.0	92.0	214.0
10Apr1998	95.0	91.0	186.0
11Apr1998	82.0	90.0	172.0
12Apr1998	75.0	89.0	164.0
13Apr1998	81.0	88.0	169.0
14Apr1998	178.0	97.3	275.3
15Apr1998	192.0	104.9	296.9
16Apr1998	103.0	85.0	188.0
17Apr1998	80.0	84.0	164.0
18Apr1998	71.0	83.0	154.0
19Apr1998	67.0	82.0	149.0
20Apr1998	62.0	81.0	143.0
21Apr1998	58.0	80.0	138.0
22Apr1998	63.0	79.0	142.0
23Apr1998	57.0	78.0	135.0
24Apr1998	62.0	77.0	139.0
25Apr1998	139.0	76.0	215.0
26Apr1998	100.0	75.0	175.0
27Apr1998	77.0	74.0	151.0
28Apr1998	64.0	73.0	137.0
29Apr1998	67.0	72.0	139.0

30Apr1998	40.0	71.0	111.0
01May1998	45.0	70.0	115.0
02May1998	45.0	70.0	115.0
03May1998	45.0	70.0	115.0
04May1998	45.0	70.0	115.0
05May1998	45.0	70.0	115.0
06May1998	45.0	70.0	115.0
07May1998	45.0	70.0	115.0
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16May1998	45.0	70.0	115.0
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22May1998	45.0	70.0	115.0
23May1998	45.0	70.0	115.0
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06Jun1998	50.0	70.0	120.0
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23Jun1998	50.0	70.0	120.0
24Jun1998	50.0	70.0	120.0

25Jun1998	50.0	70.0	120.0
26Jun1998	50.0	70.0	120.0
27Jun1998	50.0	70.0	120.0
28Jun1998	50.0	70.0	120.0
29Jun1998	50.0	70.0	120.0
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21Jul1998	55.0	70.0	125.0
22Jul1998	55.0	70.0	125.0
23Jul1998	55.0	70.0	125.0
24Jul1998	55.0	70.0	125.0
25Jul1998	55.0	70.0	125.0
26Jul1998	55.0	70.0	125.0
27Jul1998	55.0	70.0	125.0
28Jul1998	55.0	70.0	125.0
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31Jul1998	55.0	70.0	125.0
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06Aug1998	70.0	70.0	140.0
07Aug1998	70.0	70.0	140.0
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16Aug1998	70.0	70.0	140.0
17Aug1998	70.0	70.0	140.0
18Aug1998	70.0	70.0	140.0
19Aug1998	70.0	70.0	140.0

20Aug1998	70.0	70.0	140.0
21Aug1998	70.0	70.0	140.0
22Aug1998	70.0	70.0	140.0
23Aug1998	70.0	70.0	140.0
24Aug1998	70.0	70.0	140.0
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27Aug1998	70.0	70.0	140.0
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29Aug1998	70.0	70.0	140.0
30Aug1998	70.0	70.0	140.0
31Aug1998	70.0	70.0	140.0
01Sep1998	65.0	70.0	135.0
02Sep1998	65.0	70.3	135.3
03Sep1998	65.0	70.7	135.7
04Sep1998	65.0	71.0	136.0
05Sep1998	65.0	71.3	136.3
06Sep1998	65.0	71.7	136.7
07Sep1998	65.0	72.0	137.0
08Sep1998	65.0	72.3	137.3
09Sep1998	65.0	72.7	137.7
10Sep1998	65.0	73.0	138.0
11Sep1998	65.0	73.3	138.3
12Sep1998	65.0	73.7	138.7
13Sep1998	65.0	74.0	139.0
14Sep1998	65.0	74.3	139.3
15Sep1998	65.0	74.7	139.7
16Sep1998	65.0	75.0	140.0
17Sep1998	65.0	75.3	140.3
18Sep1998	65.0	75.7	140.7
19Sep1998	65.0	76.0	141.0
20Sep1998	65.0	76.3	141.3
21Sep1998	65.0	76.7	141.7
22Sep1998	65.0	77.0	142.0
23Sep1998	65.0	77.3	142.3
24Sep1998	65.0	77.7	142.7
25Sep1998	65.0	78.0	143.0
26Sep1998	65.0	78.3	143.3
27Sep1998	65.0	78.7	143.7
28Sep1998	65.0	79.0	144.0
29Sep1998	65.0	79.3	144.3
30Sep1998	65.0	79.7	144.7
01Oct1998	30.0	80.0	110.0
02Oct1998	30.0	80.0	110.0
03Oct1998	30.0	80.0	110.0
04Oct1998	30.0	80.0	110.0
05Oct1998	30.0	80.0	110.0
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13Oct1998	30.0	80.0	110.0
14Oct1998	30.0	80.0	110.0

15Oct1998	30.0	80.0	110.0
16Oct1998	30.0	80.0	110.0
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18Oct1998	30.0	80.0	110.0
19Oct1998	30.0	80.0	110.0
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29Oct1998	30.0	80.0	110.0
30Oct1998	30.0	80.0	110.0
31Oct1998	30.0	80.0	110.0
01Nov1998	3.0	80.0	83.0
02Nov1998	3.0	80.0	83.0
03Nov1998	3.0	80.0	83.0
04Nov1998	3.0	80.0	83.0
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18Nov1998	3.0	80.0	83.0
19Nov1998	3.0	80.0	83.0
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21Nov1998	3.0	80.0	83.0
22Nov1998	3.0	80.0	83.0
23Nov1998	3.0	80.0	83.0
24Nov1998	3.0	80.0	83.0
25Nov1998	3.0	80.0	83.0
26Nov1998	3.0	80.0	83.0
27Nov1998	3.0	80.0	83.0
28Nov1998	3.0	80.0	83.0
29Nov1998	3.0	80.0	83.0
30Nov1998	3.0	80.0	83.0
01Dec1998	1.0	80.0	81.0
02Dec1998	1.0	80.0	81.0
03Dec1998	1.0	80.0	81.0
04Dec1998	1.0	80.0	81.0
05Dec1998	1.0	80.0	81.0
06Dec1998	1.0	80.0	81.0
07Dec1998	1.0	80.0	81.0
08Dec1998	1.0	80.0	81.0
09Dec1998	1.0	80.0	81.0

10Dec1998	1.0	80.0	81.0
11Dec1998	1.0	80.0	81.0
12Dec1998	1.0	80.0	81.0
13Dec1998	1.0	80.0	81.0
14Dec1998	1.0	80.0	81.0
15Dec1998	1.0	80.0	81.0
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18Dec1998	1.0	80.0	81.0
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21Dec1998	1.0	80.0	81.0
22Dec1998	1.0	80.0	81.0
23Dec1998	1.0	80.0	81.0
24Dec1998	1.0	80.0	81.0
25Dec1998	1.0	80.0	81.0
26Dec1998	1.0	80.0	81.0
27Dec1998	1.0	80.0	81.0
28Dec1998	1.0	80.0	81.0
29Dec1998	1.0	80.0	81.0
30Dec1998	1.0	80.0	81.0
31Dec1998	1.0	80.0	81.0
01Jan1999	10.0	80.0	90.0
02Jan1999	10.0	80.6	90.6
03Jan1999	10.0	81.3	91.3
04Jan1999	10.0	81.9	91.9
05Jan1999	10.0	82.6	92.6
06Jan1999	10.0	83.2	93.2
07Jan1999	10.0	83.9	93.9
08Jan1999	10.0	84.5	94.5
09Jan1999	10.0	85.2	95.2
10Jan1999	10.0	85.8	95.8
11Jan1999	10.0	86.5	96.5
12Jan1999	10.0	87.1	97.1
13Jan1999	10.0	87.7	97.7
14Jan1999	10.0	88.4	98.4
15Jan1999	10.0	89.0	99.0
16Jan1999	10.0	89.7	99.7
17Jan1999	10.0	90.3	100.3
18Jan1999	10.0	91.0	101.0
19Jan1999	10.0	91.6	101.6
20Jan1999	345.0	188.5	533.5
21Jan1999	694.0	379.2	1073.2
22Jan1999	286.0	156.3	442.3
23Jan1999	133.0	94.2	227.2
24Jan1999	804.0	439.3	1243.3
25Jan1999	294.0	160.6	454.6
26Jan1999	142.0	96.1	238.1
27Jan1999	110.0	96.8	206.8
28Jan1999	100.0	97.4	197.4
29Jan1999	83.0	98.1	181.1
30Jan1999	73.0	98.7	171.7
31Jan1999	72.0	99.4	171.4
01Feb1999	205.0	112.0	317.0
02Feb1999	178.0	100.0	278.0
03Feb1999	98.0	100.0	198.0

04Feb1999	75.0	100.0	175.0
05Feb1999	66.0	100.0	166.0
06Feb1999	60.0	100.0	160.0
07Feb1999	53.0	100.0	153.0
08Feb1999	594.0	324.6	918.6
09Feb1999	1360.0	743.1	2103.1
10Feb1999	1490.0	814.1	2304.1
11Feb1999	314.0	171.6	485.6
12Feb1999	143.0	100.0	243.0
13Feb1999	97.0	100.0	197.0
14Feb1999	74.0	100.0	174.0
15Feb1999	58.0	100.0	158.0
16Feb1999	50.0	100.0	150.0
17Feb1999	46.0	100.0	146.0
18Feb1999	187.0	102.2	289.2
19Feb1999	112.0	100.0	212.0
20Feb1999	63.0	100.0	163.0
21Feb1999	46.0	100.0	146.0
22Feb1999	85.0	100.0	185.0
23Feb1999	191.0	104.4	295.4
24Feb1999	106.0	100.0	206.0
25Feb1999	76.0	100.0	176.0
26Feb1999	62.0	100.0	162.0
27Feb1999	57.0	100.0	157.0
28Feb1999	50.0	100.0	150.0
01Mar1999	45.0	100.0	145.0
02Mar1999	42.0	100.0	142.0
03Mar1999	41.0	100.0	141.0
04Mar1999	58.0	100.0	158.0
05Mar1999	65.0	100.0	165.0
06Mar1999	52.0	100.0	152.0
07Mar1999	43.0	100.0	143.0
08Mar1999	37.0	100.0	137.0
09Mar1999	33.0	100.0	133.0
10Mar1999	30.0	100.0	130.0
11Mar1999	30.0	100.0	130.0
12Mar1999	30.0	100.0	130.0
13Mar1999	30.0	100.0	130.0
14Mar1999	30.0	100.0	130.0
15Mar1999	30.0	100.0	130.0
16Mar1999	30.0	100.0	130.0
17Mar1999	30.0	100.0	130.0
18Mar1999	30.0	100.0	130.0
19Mar1999	30.0	100.0	130.0
20Mar1999	30.0	100.0	130.0
21Mar1999	30.0	100.0	130.0
22Mar1999	30.0	100.0	130.0
23Mar1999	30.0	100.0	130.0
24Mar1999	30.0	100.0	130.0
25Mar1999	30.0	100.0	130.0
26Mar1999	30.0	100.0	130.0
27Mar1999	30.0	100.0	130.0
28Mar1999	30.0	100.0	130.0
29Mar1999	30.0	100.0	130.0
30Mar1999	30.0	100.0	130.0
31Mar1999	30.0	100.0	130.0

01Apr1999	40.0	100.0	140.0
02Apr1999	40.0	99.0	139.0
03Apr1999	40.0	98.0	138.0
04Apr1999	40.0	97.0	137.0
05Apr1999	40.0	96.0	136.0
06Apr1999	40.0	95.0	135.0
07Apr1999	40.0	94.0	134.0
08Apr1999	40.0	93.0	133.0
09Apr1999	40.0	92.0	132.0
10Apr1999	40.0	91.0	131.0
11Apr1999	40.0	90.0	130.0
12Apr1999	40.0	89.0	129.0
13Apr1999	40.0	88.0	128.0
14Apr1999	40.0	87.0	127.0
15Apr1999	40.0	86.0	126.0
16Apr1999	40.0	85.0	125.0
17Apr1999	40.0	84.0	124.0
18Apr1999	40.0	83.0	123.0
19Apr1999	40.0	82.0	122.0
20Apr1999	40.0	81.0	121.0
21Apr1999	40.0	80.0	120.0
22Apr1999	40.0	79.0	119.0
23Apr1999	40.0	78.0	118.0
24Apr1999	40.0	77.0	117.0
25Apr1999	40.0	76.0	116.0
26Apr1999	40.0	75.0	115.0
27Apr1999	40.0	74.0	114.0
28Apr1999	40.0	73.0	113.0
29Apr1999	40.0	72.0	112.0
30Apr1999	40.0	71.0	111.0
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02May1999	45.0	70.0	115.0
03May1999	45.0	70.0	115.0
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27May1999	45.0	70.0	115.0
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03Jun1999	50.0	70.0	120.0
04Jun1999	50.0	70.0	120.0
05Jun1999	50.0	70.0	120.0
06Jun1999	50.0	70.0	120.0
07Jun1999	50.0	70.0	120.0
08Jun1999	50.0	70.0	120.0
09Jun1999	50.0	70.0	120.0
10Jun1999	50.0	70.0	120.0
11Jun1999	50.0	70.0	120.0
12Jun1999	50.0	70.0	120.0
13Jun1999	50.0	70.0	120.0
14Jun1999	50.0	70.0	120.0
15Jun1999	50.0	70.0	120.0
16Jun1999	50.0	70.0	120.0
17Jun1999	50.0	70.0	120.0
18Jun1999	50.0	70.0	120.0
19Jun1999	50.0	70.0	120.0
20Jun1999	50.0	70.0	120.0
21Jun1999	50.0	70.0	120.0
22Jun1999	50.0	70.0	120.0
23Jun1999	50.0	70.0	120.0
24Jun1999	50.0	70.0	120.0
25Jun1999	50.0	70.0	120.0
26Jun1999	50.0	70.0	120.0
27Jun1999	50.0	70.0	120.0
28Jun1999	50.0	70.0	120.0
29Jun1999	50.0	70.0	120.0
30Jun1999	50.0	70.0	120.0
01Jul1999	55.0	70.0	125.0
02Jul1999	55.0	70.0	125.0
03Jul1999	55.0	70.0	125.0
04Jul1999	55.0	70.0	125.0
05Jul1999	55.0	70.0	125.0
06Jul1999	55.0	70.0	125.0
07Jul1999	55.0	70.0	125.0
08Jul1999	55.0	70.0	125.0
09Jul1999	55.0	70.0	125.0
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13Jul1999	55.0	70.0	125.0
14Jul1999	55.0	70.0	125.0
15Jul1999	55.0	70.0	125.0
16Jul1999	55.0	70.0	125.0
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20Jul1999	55.0	70.0	125.0
21Jul1999	55.0	70.0	125.0

22Jul1999	55.0	70.0	125.0
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24Jul1999	55.0	70.0	125.0
25Jul1999	55.0	70.0	125.0
26Jul1999	55.0	70.0	125.0
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31Jul1999	55.0	70.0	125.0
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04Aug1999	70.0	70.0	140.0
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06Aug1999	70.0	70.0	140.0
07Aug1999	70.0	70.0	140.0
08Aug1999	70.0	70.0	140.0
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13Aug1999	70.0	70.0	140.0
14Aug1999	70.0	70.0	140.0
15Aug1999	70.0	70.0	140.0
16Aug1999	70.0	70.0	140.0
17Aug1999	70.0	70.0	140.0
18Aug1999	70.0	70.0	140.0
19Aug1999	70.0	70.0	140.0
20Aug1999	70.0	70.0	140.0
21Aug1999	70.0	70.0	140.0
22Aug1999	70.0	70.0	140.0
23Aug1999	70.0	70.0	140.0
24Aug1999	70.0	70.0	140.0
25Aug1999	70.0	70.0	140.0
26Aug1999	70.0	70.0	140.0
27Aug1999	70.0	70.0	140.0
28Aug1999	70.0	70.0	140.0
29Aug1999	70.0	70.0	140.0
30Aug1999	70.0	70.0	140.0
31Aug1999	70.0	70.0	140.0
01Sep1999	65.0	70.0	135.0
02Sep1999	65.0	70.3	135.3
03Sep1999	65.0	70.7	135.7
04Sep1999	65.0	71.0	136.0
05Sep1999	65.0	71.3	136.3
06Sep1999	65.0	71.7	136.7
07Sep1999	65.0	72.0	137.0
08Sep1999	65.0	72.3	137.3
09Sep1999	65.0	72.7	137.7
10Sep1999	65.0	73.0	138.0
11Sep1999	65.0	73.3	138.3
12Sep1999	65.0	73.7	138.7
13Sep1999	65.0	74.0	139.0
14Sep1999	65.0	74.3	139.3
15Sep1999	65.0	74.7	139.7

16Sep1999	65.0	75.0	140.0
17Sep1999	65.0	75.3	140.3
18Sep1999	65.0	75.7	140.7
19Sep1999	65.0	76.0	141.0
20Sep1999	65.0	76.3	141.3
21Sep1999	65.0	76.7	141.7
22Sep1999	65.0	77.0	142.0
23Sep1999	65.0	77.3	142.3
24Sep1999	65.0	77.7	142.7
25Sep1999	65.0	78.0	143.0
26Sep1999	65.0	78.3	143.3
27Sep1999	65.0	78.7	143.7
28Sep1999	65.0	79.0	144.0
29Sep1999	65.0	79.3	144.3
30Sep1999	65.0	79.7	144.7
01Oct1999	30.0	80.0	110.0
02Oct1999	30.0	80.0	110.0
03Oct1999	30.0	80.0	110.0
04Oct1999	30.0	80.0	110.0
05Oct1999	30.0	80.0	110.0
06Oct1999	30.0	80.0	110.0
07Oct1999	30.0	80.0	110.0
08Oct1999	30.0	80.0	110.0
09Oct1999	30.0	80.0	110.0
10Oct1999	30.0	80.0	110.0
11Oct1999	30.0	80.0	110.0
12Oct1999	30.0	80.0	110.0
13Oct1999	30.0	80.0	110.0
14Oct1999	30.0	80.0	110.0
15Oct1999	30.0	80.0	110.0
16Oct1999	30.0	80.0	110.0
17Oct1999	30.0	80.0	110.0
18Oct1999	30.0	80.0	110.0
19Oct1999	30.0	80.0	110.0
20Oct1999	30.0	80.0	110.0
21Oct1999	30.0	80.0	110.0
22Oct1999	30.0	80.0	110.0
23Oct1999	30.0	80.0	110.0
24Oct1999	30.0	80.0	110.0
25Oct1999	30.0	80.0	110.0
26Oct1999	30.0	80.0	110.0
27Oct1999	30.0	80.0	110.0
28Oct1999	30.0	80.0	110.0
29Oct1999	30.0	80.0	110.0
30Oct1999	30.0	80.0	110.0
31Oct1999	30.0	80.0	110.0
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02Nov1999	3.0	80.0	83.0
03Nov1999	3.0	80.0	83.0
04Nov1999	3.0	80.0	83.0
05Nov1999	3.0	80.0	83.0
06Nov1999	3.0	80.0	83.0
07Nov1999	3.0	80.0	83.0
08Nov1999	3.0	80.0	83.0
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10Nov1999	3.0	80.0	83.0

11Nov1999	3.0	80.0	83.0
12Nov1999	3.0	80.0	83.0
13Nov1999	3.0	80.0	83.0
14Nov1999	3.0	80.0	83.0
15Nov1999	3.0	80.0	83.0
16Nov1999	3.0	80.0	83.0
17Nov1999	3.0	80.0	83.0
18Nov1999	3.0	80.0	83.0
19Nov1999	3.0	80.0	83.0
20Nov1999	3.0	80.0	83.0
21Nov1999	3.0	80.0	83.0
22Nov1999	3.0	80.0	83.0
23Nov1999	3.0	80.0	83.0
24Nov1999	3.0	80.0	83.0
25Nov1999	3.0	80.0	83.0
26Nov1999	3.0	80.0	83.0
27Nov1999	3.0	80.0	83.0
28Nov1999	3.0	80.0	83.0
29Nov1999	3.0	80.0	83.0
30Nov1999	3.0	80.0	83.0
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06Dec1999	1.0	80.0	81.0
07Dec1999	1.0	80.0	81.0
08Dec1999	1.0	80.0	81.0
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13Dec1999	1.0	80.0	81.0
14Dec1999	1.0	80.0	81.0
15Dec1999	1.0	80.0	81.0
16Dec1999	1.0	80.0	81.0
17Dec1999	1.0	80.0	81.0
18Dec1999	1.0	80.0	81.0
19Dec1999	1.0	80.0	81.0
20Dec1999	1.0	80.0	81.0
21Dec1999	1.0	80.0	81.0
22Dec1999	1.0	80.0	81.0
23Dec1999	1.0	80.0	81.0
24Dec1999	1.0	80.0	81.0
25Dec1999	1.0	80.0	81.0
26Dec1999	1.0	80.0	81.0
27Dec1999	1.0	80.0	81.0
28Dec1999	1.0	80.0	81.0
29Dec1999	1.0	80.0	81.0
30Dec1999	1.0	80.0	81.0
31Dec1999	1.0	80.0	81.0
01Jan2000	10.0	80.0	90.0
02Jan2000	10.0	80.6	90.6
03Jan2000	10.0	81.3	91.3
04Jan2000	10.0	81.9	91.9
05Jan2000	10.0	82.6	92.6

06Jan2000	10.0	83.2	93.2
07Jan2000	10.0	83.9	93.9
08Jan2000	10.0	84.5	94.5
09Jan2000	10.0	85.2	95.2
10Jan2000	10.0	85.8	95.8
11Jan2000	10.0	86.5	96.5
12Jan2000	10.0	87.1	97.1
13Jan2000	10.0	87.7	97.7
14Jan2000	10.0	88.4	98.4
15Jan2000	10.0	89.0	99.0
16Jan2000	10.0	89.7	99.7
17Jan2000	10.0	90.3	100.3
18Jan2000	10.0	91.0	101.0
19Jan2000	10.0	91.6	101.6
20Jan2000	10.0	92.3	102.3
21Jan2000	10.0	92.9	102.9
22Jan2000	10.0	93.5	103.5
23Jan2000	10.0	94.2	104.2
24Jan2000	61.0	94.8	155.8
25Jan2000	206.0	112.6	318.6
26Jan2000	915.0	500.0	1415.0
27Jan2000	189.0	103.3	292.3
28Jan2000	97.0	97.4	194.4
29Jan2000	61.0	98.1	159.1
30Jan2000	51.0	98.7	149.7
31Jan2000	40.0	99.4	139.4
01Feb2000	122.0	100.0	222.0
02Feb2000	72.0	100.0	172.0
03Feb2000	45.0	100.0	145.0
04Feb2000	33.0	100.0	133.0
05Feb2000	64.0	100.0	164.0
06Feb2000	47.0	100.0	147.0
07Feb2000	30.0	100.0	130.0
08Feb2000	30.0	100.0	130.0
09Feb2000	30.0	100.0	130.0
10Feb2000	30.0	100.0	130.0
11Feb2000	45.0	100.0	145.0
12Feb2000	709.0	387.4	1096.4
13Feb2000	1230.0	672.1	1902.1
14Feb2000	2880.0	1573.6	4453.6
15Feb2000	1540.0	841.5	2381.5
16Feb2000	282.0	154.1	436.1
17Feb2000	868.0	474.3	1342.3
18Feb2000	332.0	181.4	513.4
19Feb2000	149.0	100.0	249.0
20Feb2000	113.0	100.0	213.0
21Feb2000	139.0	100.0	239.0
22Feb2000	319.0	174.3	493.3
23Feb2000	630.0	344.2	974.2
24Feb2000	1310.0	715.8	2025.8
25Feb2000	259.0	141.5	400.5
26Feb2000	163.0	100.0	263.0
27Feb2000	195.0	106.5	301.5
28Feb2000	2560.0	1398.8	3958.8
29Feb2000	686.0	374.8	1060.8
01Mar2000	604.0	330.0	934.0

02Mar2000	335.0	183.0	518.0
03Mar2000	206.0	112.6	318.6
04Mar2000	166.0	100.0	266.0
05Mar2000	364.0	198.9	562.9
06Mar2000	2420.0	1322.3	3742.3
07Mar2000	411.0	224.6	635.6
08Mar2000	263.0	143.7	406.7
09Mar2000	467.0	255.2	722.2
10Mar2000	299.0	163.4	462.4
11Mar2000	164.0	100.0	264.0
12Mar2000	126.0	100.0	226.0
13Mar2000	101.0	100.0	201.0
14Mar2000	82.0	100.0	182.0
15Mar2000	69.0	100.0	169.0
16Mar2000	60.0	100.0	160.0
17Mar2000	48.0	100.0	148.0
18Mar2000	42.0	100.0	142.0
19Mar2000	38.0	100.0	138.0
20Mar2000	34.0	100.0	134.0
21Mar2000	30.0	100.0	130.0
22Mar2000	30.0	100.0	130.0
23Mar2000	30.0	100.0	130.0
24Mar2000	30.0	100.0	130.0
25Mar2000	30.0	100.0	130.0
26Mar2000	30.0	100.0	130.0
27Mar2000	30.0	100.0	130.0
28Mar2000	30.0	100.0	130.0
29Mar2000	30.0	100.0	130.0
30Mar2000	30.0	100.0	130.0
31Mar2000	30.0	100.0	130.0
01Apr2000	40.0	100.0	140.0
02Apr2000	40.0	99.0	139.0
03Apr2000	40.0	98.0	138.0
04Apr2000	40.0	97.0	137.0
05Apr2000	40.0	96.0	136.0
06Apr2000	40.0	95.0	135.0
07Apr2000	40.0	94.0	134.0
08Apr2000	40.0	93.0	133.0
09Apr2000	40.0	92.0	132.0
10Apr2000	40.0	91.0	131.0
11Apr2000	40.0	90.0	130.0
12Apr2000	40.0	89.0	129.0
13Apr2000	40.0	88.0	128.0
14Apr2000	40.0	87.0	127.0
15Apr2000	40.0	86.0	126.0
16Apr2000	40.0	85.0	125.0
17Apr2000	126.0	84.0	210.0
18Apr2000	172.0	94.0	266.0
19Apr2000	114.0	82.0	196.0
20Apr2000	64.0	81.0	145.0
21Apr2000	44.0	80.0	124.0
22Apr2000	40.0	79.0	119.0
23Apr2000	40.0	78.0	118.0
24Apr2000	40.0	77.0	117.0
25Apr2000	40.0	76.0	116.0
26Apr2000	40.0	75.0	115.0

27Apr2000	40.0	74.0	114.0
28Apr2000	40.0	73.0	113.0
29Apr2000	40.0	72.0	112.0
30Apr2000	40.0	71.0	111.0
01May2000	45.0	70.0	115.0
02May2000	45.0	70.0	115.0
03May2000	45.0	70.0	115.0
04May2000	45.0	70.0	115.0
05May2000	45.0	70.0	115.0
06May2000	45.0	70.0	115.0
07May2000	45.0	70.0	115.0
08May2000	45.0	70.0	115.0
09May2000	45.0	70.0	115.0
10May2000	45.0	70.0	115.0
11May2000	45.0	70.0	115.0
12May2000	45.0	70.0	115.0
13May2000	45.0	70.0	115.0
14May2000	45.0	70.0	115.0
15May2000	45.0	70.0	115.0
16May2000	45.0	70.0	115.0
17May2000	45.0	70.0	115.0
18May2000	45.0	70.0	115.0
19May2000	45.0	70.0	115.0
20May2000	45.0	70.0	115.0
21May2000	45.0	70.0	115.0
22May2000	45.0	70.0	115.0
23May2000	45.0	70.0	115.0
24May2000	45.0	70.0	115.0
25May2000	45.0	70.0	115.0
26May2000	45.0	70.0	115.0
27May2000	45.0	70.0	115.0
28May2000	45.0	70.0	115.0
29May2000	45.0	70.0	115.0
30May2000	45.0	70.0	115.0
31May2000	45.0	70.0	115.0
01Jun2000	50.0	70.0	120.0
02Jun2000	50.0	70.0	120.0
03Jun2000	50.0	70.0	120.0
04Jun2000	50.0	70.0	120.0
05Jun2000	50.0	70.0	120.0
06Jun2000	50.0	70.0	120.0
07Jun2000	50.0	70.0	120.0
08Jun2000	50.0	70.0	120.0
09Jun2000	50.0	70.0	120.0
10Jun2000	50.0	70.0	120.0
11Jun2000	50.0	70.0	120.0
12Jun2000	50.0	70.0	120.0
13Jun2000	50.0	70.0	120.0
14Jun2000	50.0	70.0	120.0
15Jun2000	50.0	70.0	120.0
16Jun2000	50.0	70.0	120.0
17Jun2000	50.0	70.0	120.0
18Jun2000	50.0	70.0	120.0
19Jun2000	50.0	70.0	120.0
20Jun2000	50.0	70.0	120.0
21Jun2000	50.0	70.0	120.0

22Jun2000	50.0	70.0	120.0
23Jun2000	50.0	70.0	120.0
24Jun2000	50.0	70.0	120.0
25Jun2000	50.0	70.0	120.0
26Jun2000	50.0	70.0	120.0
27Jun2000	50.0	70.0	120.0
28Jun2000	50.0	70.0	120.0
29Jun2000	50.0	70.0	120.0
30Jun2000	50.0	70.0	120.0
01Jul2000	55.0	70.0	125.0
02Jul2000	55.0	70.0	125.0
03Jul2000	55.0	70.0	125.0
04Jul2000	55.0	70.0	125.0
05Jul2000	55.0	70.0	125.0
06Jul2000	55.0	70.0	125.0
07Jul2000	55.0	70.0	125.0
08Jul2000	55.0	70.0	125.0
09Jul2000	55.0	70.0	125.0
10Jul2000	55.0	70.0	125.0
11Jul2000	55.0	70.0	125.0
12Jul2000	55.0	70.0	125.0
13Jul2000	55.0	70.0	125.0
14Jul2000	55.0	70.0	125.0
15Jul2000	55.0	70.0	125.0
16Jul2000	55.0	70.0	125.0
17Jul2000	55.0	70.0	125.0
18Jul2000	55.0	70.0	125.0
19Jul2000	55.0	70.0	125.0
20Jul2000	55.0	70.0	125.0
21Jul2000	55.0	70.0	125.0
22Jul2000	55.0	70.0	125.0
23Jul2000	55.0	70.0	125.0
24Jul2000	55.0	70.0	125.0
25Jul2000	55.0	70.0	125.0
26Jul2000	55.0	70.0	125.0
27Jul2000	55.0	70.0	125.0
28Jul2000	55.0	70.0	125.0
29Jul2000	55.0	70.0	125.0
30Jul2000	55.0	70.0	125.0
31Jul2000	55.0	70.0	125.0
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02Aug2000	70.0	70.0	140.0
03Aug2000	70.0	70.0	140.0
04Aug2000	70.0	70.0	140.0
05Aug2000	70.0	70.0	140.0
06Aug2000	70.0	70.0	140.0
07Aug2000	70.0	70.0	140.0
08Aug2000	70.0	70.0	140.0
09Aug2000	70.0	70.0	140.0
10Aug2000	70.0	70.0	140.0
11Aug2000	70.0	70.0	140.0
12Aug2000	70.0	70.0	140.0
13Aug2000	70.0	70.0	140.0
14Aug2000	70.0	70.0	140.0
15Aug2000	70.0	70.0	140.0
16Aug2000	70.0	70.0	140.0

17Aug2000	70.0	70.0	140.0
18Aug2000	70.0	70.0	140.0
19Aug2000	70.0	70.0	140.0
20Aug2000	70.0	70.0	140.0
21Aug2000	70.0	70.0	140.0
22Aug2000	70.0	70.0	140.0
23Aug2000	70.0	70.0	140.0
24Aug2000	70.0	70.0	140.0
25Aug2000	70.0	70.0	140.0
26Aug2000	70.0	70.0	140.0
27Aug2000	70.0	70.0	140.0
28Aug2000	70.0	70.0	140.0
29Aug2000	70.0	70.0	140.0
30Aug2000	70.0	70.0	140.0
31Aug2000	70.0	70.0	140.0
01Sep2000	65.0	70.0	135.0
02Sep2000	65.0	70.3	135.3
03Sep2000	65.0	70.7	135.7
04Sep2000	65.0	71.0	136.0
05Sep2000	65.0	71.3	136.3
06Sep2000	65.0	71.7	136.7
07Sep2000	65.0	72.0	137.0
08Sep2000	65.0	72.3	137.3
09Sep2000	65.0	72.7	137.7
10Sep2000	65.0	73.0	138.0
11Sep2000	65.0	73.3	138.3
12Sep2000	65.0	73.7	138.7
13Sep2000	65.0	74.0	139.0
14Sep2000	65.0	74.3	139.3
15Sep2000	65.0	74.7	139.7
16Sep2000	65.0	75.0	140.0
17Sep2000	65.0	75.3	140.3
18Sep2000	65.0	75.7	140.7
19Sep2000	65.0	76.0	141.0
20Sep2000	65.0	76.3	141.3
21Sep2000	65.0	76.7	141.7
22Sep2000	65.0	77.0	142.0
23Sep2000	65.0	77.3	142.3
24Sep2000	65.0	77.7	142.7
25Sep2000	65.0	78.0	143.0
26Sep2000	65.0	78.3	143.3
27Sep2000	65.0	78.7	143.7
28Sep2000	65.0	79.0	144.0
29Sep2000	65.0	79.3	144.3
30Sep2000	65.0	79.7	144.7
01Oct2000	30.0	80.0	110.0
02Oct2000	30.0	80.0	110.0
03Oct2000	30.0	80.0	110.0
04Oct2000	30.0	80.0	110.0
05Oct2000	30.0	80.0	110.0
06Oct2000	30.0	80.0	110.0
07Oct2000	30.0	80.0	110.0
08Oct2000	30.0	80.0	110.0
09Oct2000	30.0	80.0	110.0
10Oct2000	30.0	80.0	110.0
11Oct2000	30.0	80.0	110.0

12Oct2000	30.0	80.0	110.0
13Oct2000	30.0	80.0	110.0
14Oct2000	30.0	80.0	110.0
15Oct2000	30.0	80.0	110.0
16Oct2000	30.0	80.0	110.0
17Oct2000	30.0	80.0	110.0
18Oct2000	30.0	80.0	110.0
19Oct2000	30.0	80.0	110.0
20Oct2000	30.0	80.0	110.0
21Oct2000	30.0	80.0	110.0
22Oct2000	30.0	80.0	110.0
23Oct2000	30.0	80.0	110.0
24Oct2000	30.0	80.0	110.0
25Oct2000	30.0	80.0	110.0
26Oct2000	30.0	80.0	110.0
27Oct2000	30.0	80.0	110.0
28Oct2000	30.0	80.0	110.0
29Oct2000	30.0	80.0	110.0
30Oct2000	55.0	80.0	135.0
31Oct2000	69.0	80.0	149.0
01Nov2000	30.0	80.0	110.0
02Nov2000	17.0	80.0	97.0
03Nov2000	9.0	80.0	89.0
04Nov2000	5.8	80.0	85.8
05Nov2000	3.8	80.0	83.8
06Nov2000	3.0	80.0	83.0
07Nov2000	3.0	80.0	83.0
08Nov2000	3.0	80.0	83.0
09Nov2000	3.0	80.0	83.0
10Nov2000	3.0	80.0	83.0
11Nov2000	3.0	80.0	83.0
12Nov2000	3.0	80.0	83.0
13Nov2000	3.0	80.0	83.0
14Nov2000	3.0	80.0	83.0
15Nov2000	3.0	80.0	83.0
16Nov2000	3.0	80.0	83.0
17Nov2000	3.0	80.0	83.0
18Nov2000	3.0	80.0	83.0
19Nov2000	3.0	80.0	83.0
20Nov2000	3.0	80.0	83.0
21Nov2000	3.0	80.0	83.0
22Nov2000	3.0	80.0	83.0
23Nov2000	3.0	80.0	83.0
24Nov2000	3.0	80.0	83.0
25Nov2000	3.0	80.0	83.0
26Nov2000	3.0	80.0	83.0
27Nov2000	3.0	80.0	83.0
28Nov2000	3.0	80.0	83.0
29Nov2000	3.0	80.0	83.0
30Nov2000	3.0	80.0	83.0
01Dec2000	1.0	80.0	81.0
02Dec2000	1.0	80.0	81.0
03Dec2000	1.0	80.0	81.0
04Dec2000	1.0	80.0	81.0
05Dec2000	1.0	80.0	81.0
06Dec2000	1.0	80.0	81.0

07Dec2000	1.0	80.0	81.0
08Dec2000	1.0	80.0	81.0
09Dec2000	1.0	80.0	81.0
10Dec2000	1.0	80.0	81.0
11Dec2000	1.0	80.0	81.0
12Dec2000	1.0	80.0	81.0
13Dec2000	1.0	80.0	81.0
14Dec2000	1.0	80.0	81.0
15Dec2000	1.0	80.0	81.0
16Dec2000	1.0	80.0	81.0
17Dec2000	1.0	80.0	81.0
18Dec2000	1.0	80.0	81.0
19Dec2000	1.0	80.0	81.0
20Dec2000	1.0	80.0	81.0
21Dec2000	1.0	80.0	81.0
22Dec2000	1.0	80.0	81.0
23Dec2000	1.0	80.0	81.0
24Dec2000	1.0	80.0	81.0
25Dec2000	1.0	80.0	81.0
26Dec2000	1.0	80.0	81.0
27Dec2000	1.0	80.0	81.0
28Dec2000	1.0	80.0	81.0
29Dec2000	1.0	80.0	81.0
30Dec2000	1.0	80.0	81.0
31Dec2000	1.0	80.0	81.0
01Jan2001	10.0	80.0	90.0
02Jan2001	10.0	80.6	90.6
03Jan2001	10.0	81.3	91.3
04Jan2001	10.0	81.9	91.9
05Jan2001	10.0	82.6	92.6
06Jan2001	10.0	83.2	93.2
07Jan2001	10.0	83.9	93.9
08Jan2001	10.0	84.5	94.5
09Jan2001	10.0	85.2	95.2
10Jan2001	10.0	85.8	95.8
11Jan2001	30.0	86.5	116.5
12Jan2001	46.0	87.1	133.1
13Jan2001	31.0	87.7	118.7
14Jan2001	33.0	88.4	121.4
15Jan2001	26.0	89.0	115.0
16Jan2001	22.0	89.7	111.7
17Jan2001	18.0	90.3	108.3
18Jan2001	15.0	91.0	106.0
19Jan2001	13.0	91.6	104.6
20Jan2001	12.0	92.3	104.3
21Jan2001	11.0	92.9	103.9
22Jan2001	10.0	93.5	103.5
23Jan2001	10.0	94.2	104.2
24Jan2001	10.0	94.8	104.8
25Jan2001	10.0	95.5	105.5
26Jan2001	132.0	96.1	228.1
27Jan2001	206.0	112.6	318.6
28Jan2001	94.0	97.4	191.4
29Jan2001	44.0	98.1	142.1
30Jan2001	10.0	98.7	108.7
31Jan2001	10.0	99.4	109.4

01Feb2001	30.0	100.0	130.0
02Feb2001	30.0	100.0	130.0
03Feb2001	30.0	100.0	130.0
04Feb2001	30.0	100.0	130.0
05Feb2001	30.0	100.0	130.0
06Feb2001	30.0	100.0	130.0
07Feb2001	30.0	100.0	130.0
08Feb2001	30.0	100.0	130.0
09Feb2001	30.0	100.0	130.0
10Feb2001	30.0	100.0	130.0
11Feb2001	30.0	100.0	130.0
12Feb2001	30.0	100.0	130.0
13Feb2001	86.0	100.0	186.0
14Feb2001	256.0	139.9	395.9
15Feb2001	111.0	100.0	211.0
16Feb2001	57.0	100.0	157.0
17Feb2001	38.0	100.0	138.0
18Feb2001	30.0	100.0	130.0
19Feb2001	30.0	100.0	130.0
20Feb2001	30.0	100.0	130.0
21Feb2001	30.0	100.0	130.0
22Feb2001	115.0	100.0	215.0
23Feb2001	80.0	100.0	180.0
24Feb2001	48.0	100.0	148.0
25Feb2001	50.0	100.0	150.0
26Feb2001	340.0	185.8	525.8
27Feb2001	229.0	125.1	354.1
28Feb2001	104.0	100.0	204.0
01Mar2001	39.0	100.0	139.0
02Mar2001	34.0	100.0	134.0
03Mar2001	41.0	100.0	141.0
04Mar2001	60.0	100.0	160.0
05Mar2001	505.0	275.9	780.9
06Mar2001	1420.0	775.9	2195.9
07Mar2001	356.0	194.5	550.5
08Mar2001	152.0	100.0	252.0
09Mar2001	100.0	100.0	200.0
10Mar2001	71.0	100.0	171.0
11Mar2001	55.0	100.0	155.0
12Mar2001	42.0	100.0	142.0
13Mar2001	32.0	100.0	132.0
14Mar2001	30.0	100.0	130.0
15Mar2001	30.0	100.0	130.0
16Mar2001	30.0	100.0	130.0
17Mar2001	30.0	100.0	130.0
18Mar2001	30.0	100.0	130.0
19Mar2001	30.0	100.0	130.0
20Mar2001	30.0	100.0	130.0
21Mar2001	30.0	100.0	130.0
22Mar2001	30.0	100.0	130.0
23Mar2001	30.0	100.0	130.0
24Mar2001	30.0	100.0	130.0
25Mar2001	30.0	100.0	130.0
26Mar2001	30.0	100.0	130.0
27Mar2001	30.0	100.0	130.0
28Mar2001	30.0	100.0	130.0

29Mar2001	30.0	100.0	130.0
30Mar2001	30.0	100.0	130.0
31Mar2001	30.0	100.0	130.0
01Apr2001	40.0	100.0	140.0
02Apr2001	40.0	99.0	139.0
03Apr2001	40.0	98.0	138.0
04Apr2001	40.0	97.0	137.0
05Apr2001	40.0	96.0	136.0
06Apr2001	40.0	95.0	135.0
07Apr2001	40.0	94.0	134.0
08Apr2001	40.0	93.0	133.0
09Apr2001	40.0	92.0	132.0
10Apr2001	40.0	91.0	131.0
11Apr2001	40.0	90.0	130.0
12Apr2001	40.0	89.0	129.0
13Apr2001	40.0	88.0	128.0
14Apr2001	40.0	87.0	127.0
15Apr2001	40.0	86.0	126.0
16Apr2001	40.0	85.0	125.0
17Apr2001	40.0	84.0	124.0
18Apr2001	40.0	83.0	123.0
19Apr2001	40.0	82.0	122.0
20Apr2001	40.0	81.0	121.0
21Apr2001	40.0	80.0	120.0
22Apr2001	40.0	79.0	119.0
23Apr2001	40.0	78.0	118.0
24Apr2001	40.0	77.0	117.0
25Apr2001	40.0	76.0	116.0
26Apr2001	40.0	75.0	115.0
27Apr2001	40.0	74.0	114.0
28Apr2001	40.0	73.0	113.0
29Apr2001	40.0	72.0	112.0
30Apr2001	40.0	71.0	111.0
01May2001	45.0	70.0	115.0
02May2001	45.0	70.0	115.0
03May2001	45.0	70.0	115.0
04May2001	45.0	70.0	115.0
05May2001	45.0	70.0	115.0
06May2001	45.0	70.0	115.0
07May2001	45.0	70.0	115.0
08May2001	45.0	70.0	115.0
09May2001	45.0	70.0	115.0
10May2001	45.0	70.0	115.0
11May2001	45.0	70.0	115.0
12May2001	45.0	70.0	115.0
13May2001	45.0	70.0	115.0
14May2001	45.0	70.0	115.0
15May2001	45.0	70.0	115.0
16May2001	45.0	70.0	115.0
17May2001	45.0	70.0	115.0
18May2001	45.0	70.0	115.0
19May2001	45.0	70.0	115.0
20May2001	45.0	70.0	115.0
21May2001	45.0	70.0	115.0
22May2001	45.0	70.0	115.0
23May2001	45.0	70.0	115.0

24May2001	45.0	70.0	115.0
25May2001	45.0	70.0	115.0
26May2001	45.0	70.0	115.0
27May2001	45.0	70.0	115.0
28May2001	45.0	70.0	115.0
29May2001	45.0	70.0	115.0
30May2001	45.0	70.0	115.0
31May2001	45.0	70.0	115.0
01Jun2001	50.0	70.0	120.0
02Jun2001	50.0	70.0	120.0
03Jun2001	50.0	70.0	120.0
04Jun2001	50.0	70.0	120.0
05Jun2001	50.0	70.0	120.0
06Jun2001	50.0	70.0	120.0
07Jun2001	50.0	70.0	120.0
08Jun2001	50.0	70.0	120.0
09Jun2001	50.0	70.0	120.0
10Jun2001	50.0	70.0	120.0
11Jun2001	50.0	70.0	120.0
12Jun2001	50.0	70.0	120.0
13Jun2001	50.0	70.0	120.0
14Jun2001	50.0	70.0	120.0
15Jun2001	50.0	70.0	120.0
16Jun2001	50.0	70.0	120.0
17Jun2001	50.0	70.0	120.0
18Jun2001	50.0	70.0	120.0
19Jun2001	50.0	70.0	120.0
20Jun2001	50.0	70.0	120.0
21Jun2001	50.0	70.0	120.0
22Jun2001	50.0	70.0	120.0
23Jun2001	50.0	70.0	120.0
24Jun2001	50.0	70.0	120.0
25Jun2001	50.0	70.0	120.0
26Jun2001	50.0	70.0	120.0
27Jun2001	50.0	70.0	120.0
28Jun2001	50.0	70.0	120.0
29Jun2001	50.0	70.0	120.0
30Jun2001	50.0	70.0	120.0
01Jul2001	55.0	70.0	125.0
02Jul2001	55.0	70.0	125.0
03Jul2001	55.0	70.0	125.0
04Jul2001	55.0	70.0	125.0
05Jul2001	55.0	70.0	125.0
06Jul2001	55.0	70.0	125.0
07Jul2001	55.0	70.0	125.0
08Jul2001	55.0	70.0	125.0
09Jul2001	55.0	70.0	125.0
10Jul2001	55.0	70.0	125.0
11Jul2001	55.0	70.0	125.0
12Jul2001	55.0	70.0	125.0
13Jul2001	55.0	70.0	125.0
14Jul2001	55.0	70.0	125.0
15Jul2001	55.0	70.0	125.0
16Jul2001	55.0	70.0	125.0
17Jul2001	55.0	70.0	125.0
18Jul2001	55.0	70.0	125.0

19Jul2001	55.0	70.0	125.0
20Jul2001	55.0	70.0	125.0
21Jul2001	55.0	70.0	125.0
22Jul2001	55.0	70.0	125.0
23Jul2001	55.0	70.0	125.0
24Jul2001	55.0	70.0	125.0
25Jul2001	55.0	70.0	125.0
26Jul2001	55.0	70.0	125.0
27Jul2001	55.0	70.0	125.0
28Jul2001	55.0	70.0	125.0
29Jul2001	55.0	70.0	125.0
30Jul2001	55.0	70.0	125.0
31Jul2001	55.0	70.0	125.0
01Aug2001	70.0	70.0	140.0
02Aug2001	70.0	70.0	140.0
03Aug2001	70.0	70.0	140.0
04Aug2001	70.0	70.0	140.0
05Aug2001	70.0	70.0	140.0
06Aug2001	70.0	70.0	140.0
07Aug2001	70.0	70.0	140.0
08Aug2001	70.0	70.0	140.0
09Aug2001	70.0	70.0	140.0
10Aug2001	70.0	70.0	140.0
11Aug2001	70.0	70.0	140.0
12Aug2001	70.0	70.0	140.0
13Aug2001	70.0	70.0	140.0
14Aug2001	70.0	70.0	140.0
15Aug2001	70.0	70.0	140.0
16Aug2001	70.0	70.0	140.0
17Aug2001	70.0	70.0	140.0
18Aug2001	70.0	70.0	140.0
19Aug2001	70.0	70.0	140.0
20Aug2001	70.0	70.0	140.0
21Aug2001	70.0	70.0	140.0
22Aug2001	70.0	70.0	140.0
23Aug2001	70.0	70.0	140.0
24Aug2001	70.0	70.0	140.0
25Aug2001	70.0	70.0	140.0
26Aug2001	70.0	70.0	140.0
27Aug2001	70.0	70.0	140.0
28Aug2001	70.0	70.0	140.0
29Aug2001	70.0	70.0	140.0
30Aug2001	70.0	70.0	140.0
31Aug2001	70.0	70.0	140.0
01Sep2001	65.0	70.0	135.0
02Sep2001	65.0	70.3	135.3
03Sep2001	65.0	70.7	135.7
04Sep2001	65.0	71.0	136.0
05Sep2001	65.0	71.3	136.3
06Sep2001	65.0	71.7	136.7
07Sep2001	65.0	72.0	137.0
08Sep2001	65.0	72.3	137.3
09Sep2001	65.0	72.7	137.7
10Sep2001	65.0	73.0	138.0
11Sep2001	65.0	73.3	138.3
12Sep2001	65.0	73.7	138.7

13Sep2001	65.0	74.0	139.0
14Sep2001	65.0	74.3	139.3
15Sep2001	65.0	74.7	139.7
16Sep2001	65.0	75.0	140.0
17Sep2001	65.0	75.3	140.3
18Sep2001	65.0	75.7	140.7
19Sep2001	65.0	76.0	141.0
20Sep2001	65.0	76.3	141.3
21Sep2001	65.0	76.7	141.7
22Sep2001	65.0	77.0	142.0
23Sep2001	65.0	77.3	142.3
24Sep2001	65.0	77.7	142.7
25Sep2001	65.0	78.0	143.0
26Sep2001	65.0	78.3	143.3
27Sep2001	65.0	78.7	143.7
28Sep2001	65.0	79.0	144.0
29Sep2001	65.0	79.3	144.3
30Sep2001	65.0	79.7	144.7
01Oct2001	30.0	80.0	110.0
02Oct2001	30.0	80.0	110.0
03Oct2001	30.0	80.0	110.0
04Oct2001	30.0	80.0	110.0
05Oct2001	30.0	80.0	110.0
06Oct2001	30.0	80.0	110.0
07Oct2001	30.0	80.0	110.0
08Oct2001	30.0	80.0	110.0
09Oct2001	30.0	80.0	110.0
10Oct2001	30.0	80.0	110.0
11Oct2001	30.0	80.0	110.0
12Oct2001	30.0	80.0	110.0
13Oct2001	30.0	80.0	110.0
14Oct2001	30.0	80.0	110.0
15Oct2001	30.0	80.0	110.0
16Oct2001	30.0	80.0	110.0
17Oct2001	30.0	80.0	110.0
18Oct2001	30.0	80.0	110.0
19Oct2001	30.0	80.0	110.0
20Oct2001	30.0	80.0	110.0
21Oct2001	30.0	80.0	110.0
22Oct2001	30.0	80.0	110.0
23Oct2001	30.0	80.0	110.0
24Oct2001	30.0	80.0	110.0
25Oct2001	30.0	80.0	110.0
26Oct2001	30.0	80.0	110.0
27Oct2001	30.0	80.0	110.0
28Oct2001	30.0	80.0	110.0
29Oct2001	30.0	80.0	110.0
30Oct2001	30.0	80.0	110.0
31Oct2001	30.0	80.0	110.0
01Nov2001	3.0	80.0	83.0
02Nov2001	3.0	80.0	83.0
03Nov2001	3.0	80.0	83.0
04Nov2001	3.0	80.0	83.0
05Nov2001	3.0	80.0	83.0
06Nov2001	3.0	80.0	83.0
07Nov2001	3.0	80.0	83.0

08Nov2001	3.0	80.0	83.0
09Nov2001	3.0	80.0	83.0
10Nov2001	3.0	80.0	83.0
11Nov2001	3.0	80.0	83.0
12Nov2001	3.0	80.0	83.0
13Nov2001	3.0	80.0	83.0
14Nov2001	3.0	80.0	83.0
15Nov2001	3.0	80.0	83.0
16Nov2001	3.0	80.0	83.0
17Nov2001	3.0	80.0	83.0
18Nov2001	3.0	80.0	83.0
19Nov2001	3.0	80.0	83.0
20Nov2001	3.0	80.0	83.0
21Nov2001	3.0	80.0	83.0
22Nov2001	3.0	80.0	83.0
23Nov2001	3.0	80.0	83.0
24Nov2001	3.0	80.0	83.0
25Nov2001	3.0	80.0	83.0
26Nov2001	3.0	80.0	83.0
27Nov2001	3.0	80.0	83.0
28Nov2001	3.0	80.0	83.0
29Nov2001	3.0	80.0	83.0
30Nov2001	3.0	80.0	83.0
01Dec2001	1.0	80.0	81.0
02Dec2001	1.0	80.0	81.0
03Dec2001	1.0	80.0	81.0
04Dec2001	1.0	80.0	81.0
05Dec2001	1.0	80.0	81.0
06Dec2001	1.0	80.0	81.0
07Dec2001	1.0	80.0	81.0
08Dec2001	1.0	80.0	81.0
09Dec2001	1.0	80.0	81.0
10Dec2001	1.0	80.0	81.0
11Dec2001	1.0	80.0	81.0
12Dec2001	1.0	80.0	81.0
13Dec2001	1.0	80.0	81.0
14Dec2001	1.0	80.0	81.0
15Dec2001	1.0	80.0	81.0
16Dec2001	1.0	80.0	81.0
17Dec2001	1.0	80.0	81.0
18Dec2001	1.0	80.0	81.0
19Dec2001	1.0	80.0	81.0
20Dec2001	1.0	80.0	81.0
21Dec2001	1.0	80.0	81.0
22Dec2001	158.0	86.3	244.3
23Dec2001	58.0	80.0	138.0
24Dec2001	25.0	80.0	105.0
25Dec2001	20.0	80.0	100.0
26Dec2001	14.0	80.0	94.0
27Dec2001	7.9	80.0	87.9
28Dec2001	8.0	80.0	88.0
29Dec2001	267.0	145.9	412.9
30Dec2001	2290.0	1251.3	3541.3
31Dec2001	936.0	511.4	1447.4
01Jan2002	619.0	338.2	957.2
02Jan2002	187.0	102.2	289.2

03Jan2002	1970.0	1076.4	3046.4
04Jan2002	1040.0	568.3	1608.3
05Jan2002	203.0	110.9	313.9
06Jan2002	124.0	83.2	207.2
07Jan2002	84.0	83.9	167.9
08Jan2002	63.0	84.5	147.5
09Jan2002	52.0	85.2	137.2
10Jan2002	45.0	85.8	130.8
11Jan2002	42.0	86.5	128.5
12Jan2002	38.0	87.1	125.1
13Jan2002	34.0	87.7	121.7
14Jan2002	32.0	88.4	120.4
15Jan2002	30.0	89.0	119.0
16Jan2002	29.0	89.7	118.7
17Jan2002	27.0	90.3	117.3
18Jan2002	25.0	91.0	116.0
19Jan2002	19.0	91.6	110.6
20Jan2002	17.0	92.3	109.3
21Jan2002	16.0	92.9	108.9
22Jan2002	15.0	93.5	108.5
23Jan2002	14.0	94.2	108.2
24Jan2002	16.0	94.8	110.8
25Jan2002	16.0	95.5	111.5
26Jan2002	18.0	96.1	114.1
27Jan2002	14.0	96.8	110.8
28Jan2002	24.0	97.4	121.4
29Jan2002	62.0	98.1	160.1
30Jan2002	39.0	98.7	137.7
31Jan2002	28.0	99.4	127.4
01Feb2002	30.0	100.0	130.0
02Feb2002	30.0	100.0	130.0
03Feb2002	30.0	100.0	130.0
04Feb2002	30.0	100.0	130.0
05Feb2002	30.0	100.0	130.0
06Feb2002	30.0	100.0	130.0
07Feb2002	30.0	100.0	130.0
08Feb2002	30.0	100.0	130.0
09Feb2002	30.0	100.0	130.0
10Feb2002	30.0	100.0	130.0
11Feb2002	30.0	100.0	130.0
12Feb2002	30.0	100.0	130.0
13Feb2002	30.0	100.0	130.0
14Feb2002	30.0	100.0	130.0
15Feb2002	30.0	100.0	130.0
16Feb2002	30.0	100.0	130.0
17Feb2002	30.0	100.0	130.0
18Feb2002	30.0	100.0	130.0
19Feb2002	30.0	100.0	130.0
20Feb2002	30.0	100.0	130.0
21Feb2002	30.0	100.0	130.0
22Feb2002	30.0	100.0	130.0
23Feb2002	30.0	100.0	130.0
24Feb2002	30.0	100.0	130.0
25Feb2002	30.0	100.0	130.0
26Feb2002	30.0	100.0	130.0
27Feb2002	30.0	100.0	130.0

28Feb2002	30.0	100.0	130.0
01Mar2002	30.0	100.0	130.0
02Mar2002	30.0	100.0	130.0
03Mar2002	30.0	100.0	130.0
04Mar2002	30.0	100.0	130.0
05Mar2002	30.0	100.0	130.0
06Mar2002	30.0	100.0	130.0
07Mar2002	30.0	100.0	130.0
08Mar2002	30.0	100.0	130.0
09Mar2002	30.0	100.0	130.0
10Mar2002	30.0	100.0	130.0
11Mar2002	30.0	100.0	130.0
12Mar2002	30.0	100.0	130.0
13Mar2002	30.0	100.0	130.0
14Mar2002	30.0	100.0	130.0
15Mar2002	30.0	100.0	130.0
16Mar2002	30.0	100.0	130.0
17Mar2002	30.0	100.0	130.0
18Mar2002	30.0	100.0	130.0
19Mar2002	30.0	100.0	130.0
20Mar2002	30.0	100.0	130.0
21Mar2002	30.0	100.0	130.0
22Mar2002	30.0	100.0	130.0
23Mar2002	30.0	100.0	130.0
24Mar2002	30.0	100.0	130.0
25Mar2002	30.0	100.0	130.0
26Mar2002	30.0	100.0	130.0
27Mar2002	30.0	100.0	130.0
28Mar2002	30.0	100.0	130.0
29Mar2002	30.0	100.0	130.0
30Mar2002	30.0	100.0	130.0
31Mar2002	30.0	100.0	130.0
01Apr2002	40.0	100.0	140.0
02Apr2002	40.0	99.0	139.0
03Apr2002	40.0	98.0	138.0
04Apr2002	40.0	97.0	137.0
05Apr2002	40.0	96.0	136.0
06Apr2002	40.0	95.0	135.0
07Apr2002	40.0	94.0	134.0
08Apr2002	40.0	93.0	133.0
09Apr2002	40.0	92.0	132.0
10Apr2002	40.0	91.0	131.0
11Apr2002	40.0	90.0	130.0
12Apr2002	40.0	89.0	129.0
13Apr2002	40.0	88.0	128.0
14Apr2002	40.0	87.0	127.0
15Apr2002	40.0	86.0	126.0
16Apr2002	40.0	85.0	125.0
17Apr2002	40.0	84.0	124.0
18Apr2002	40.0	83.0	123.0
19Apr2002	40.0	82.0	122.0
20Apr2002	40.0	81.0	121.0
21Apr2002	40.0	80.0	120.0
22Apr2002	40.0	79.0	119.0
23Apr2002	40.0	78.0	118.0
24Apr2002	40.0	77.0	117.0

25Apr2002	40.0	76.0	116.0
26Apr2002	40.0	75.0	115.0
27Apr2002	40.0	74.0	114.0
28Apr2002	40.0	73.0	113.0
29Apr2002	40.0	72.0	112.0
30Apr2002	40.0	71.0	111.0
01May2002	45.0	70.0	115.0
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16Jun2002	50.0	70.0	120.0
17Jun2002	50.0	70.0	120.0
18Jun2002	50.0	70.0	120.0
19Jun2002	50.0	70.0	120.0

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22Jun2002	50.0	70.0	120.0
23Jun2002	50.0	70.0	120.0
24Jun2002	50.0	70.0	120.0
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12Aug2002	70.0	70.0	140.0
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31Aug2002	70.0	70.0	140.0
01Sep2002	65.0	70.0	135.0
02Sep2002	65.0	70.3	135.3
03Sep2002	65.0	70.7	135.7
04Sep2002	65.0	71.0	136.0
05Sep2002	65.0	71.3	136.3
06Sep2002	65.0	71.7	136.7
07Sep2002	65.0	72.0	137.0
08Sep2002	65.0	72.3	137.3
09Sep2002	65.0	72.7	137.7
10Sep2002	65.0	73.0	138.0
11Sep2002	65.0	73.3	138.3
12Sep2002	65.0	73.7	138.7
13Sep2002	65.0	74.0	139.0
14Sep2002	65.0	74.3	139.3
15Sep2002	65.0	74.7	139.7
16Sep2002	65.0	75.0	140.0
17Sep2002	65.0	75.3	140.3
18Sep2002	65.0	75.7	140.7
19Sep2002	65.0	76.0	141.0
20Sep2002	65.0	76.3	141.3
21Sep2002	65.0	76.7	141.7
22Sep2002	65.0	77.0	142.0
23Sep2002	65.0	77.3	142.3
24Sep2002	65.0	77.7	142.7
25Sep2002	65.0	78.0	143.0
26Sep2002	65.0	78.3	143.3
27Sep2002	65.0	78.7	143.7
28Sep2002	65.0	79.0	144.0
29Sep2002	65.0	79.3	144.3
30Sep2002	65.0	79.7	144.7
01Oct2002	30.0	80.0	110.0
02Oct2002	30.0	80.0	110.0
03Oct2002	30.0	80.0	110.0
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06Oct2002	30.0	80.0	110.0
07Oct2002	30.0	80.0	110.0
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31Oct2002	30.0	80.0	110.0
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15Nov2002	3.0	80.0	83.0
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22Nov2002	3.0	80.0	83.0
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24Nov2002	3.0	80.0	83.0
25Nov2002	3.0	80.0	83.0
26Nov2002	3.0	80.0	83.0
27Nov2002	3.0	80.0	83.0
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29Nov2002	3.0	80.0	83.0
30Nov2002	3.0	80.0	83.0
01Dec2002	1.0	80.0	81.0
02Dec2002	1.0	80.0	81.0
03Dec2002	1.0	80.0	81.0
04Dec2002	1.0	80.0	81.0

05Dec2002	1.0	80.0	81.0
06Dec2002	1.0	80.0	81.0
07Dec2002	1.0	80.0	81.0
08Dec2002	1.0	80.0	81.0
09Dec2002	1.0	80.0	81.0
10Dec2002	1.0	80.0	81.0
11Dec2002	1.0	80.0	81.0
12Dec2002	1.0	80.0	81.0
13Dec2002	1.0	80.0	81.0
14Dec2002	1.0	80.0	81.0
15Dec2002	1.0	80.0	81.0
16Dec2002	47.0	80.0	127.0
17Dec2002	297.0	162.3	459.3
18Dec2002	260.0	142.1	402.1
19Dec2002	137.0	80.0	217.0
20Dec2002	103.0	80.0	183.0
21Dec2002	174.0	95.1	269.1
22Dec2002	128.0	80.0	208.0
23Dec2002	110.0	80.0	190.0
24Dec2002	53.0	80.0	133.0
25Dec2002	36.0	80.0	116.0
26Dec2002	26.0	80.0	106.0
27Dec2002	15.0	80.0	95.0
28Dec2002	11.0	80.0	91.0
29Dec2002	8.9	80.0	88.9
30Dec2002	6.9	80.0	86.9
31Dec2002	80.0	80.0	160.0
01Jan2003	50.0	80.0	130.0
02Jan2003	60.0	80.6	140.6
03Jan2003	46.0	81.3	127.3
04Jan2003	32.0	81.9	113.9
05Jan2003	22.0	82.6	104.6
06Jan2003	16.0	83.2	99.2
07Jan2003	12.0	83.9	95.9
08Jan2003	10.0	84.5	94.5
09Jan2003	10.0	85.2	95.2
10Jan2003	10.0	85.8	95.8
11Jan2003	107.0	86.5	193.5
12Jan2003	179.0	97.8	276.8
13Jan2003	78.0	87.7	165.7
14Jan2003	46.0	88.4	134.4
15Jan2003	33.0	89.0	122.0
16Jan2003	24.0	89.7	113.7
17Jan2003	16.0	90.3	106.3
18Jan2003	13.0	91.0	104.0
19Jan2003	10.0	91.6	101.6
20Jan2003	10.0	92.3	102.3
21Jan2003	10.0	92.9	102.9
22Jan2003	10.0	93.5	103.5
23Jan2003	10.0	94.2	104.2
24Jan2003	10.0	94.8	104.8
25Jan2003	10.0	95.5	105.5
26Jan2003	10.0	96.1	106.1
27Jan2003	10.0	96.8	106.8
28Jan2003	10.0	97.4	107.4
29Jan2003	10.0	98.1	108.1

30Jan2003	10.0	98.7	108.7
31Jan2003	10.0	99.4	109.4
01Feb2003	30.0	100.0	130.0
02Feb2003	30.0	100.0	130.0
03Feb2003	30.0	100.0	130.0
04Feb2003	30.0	100.0	130.0
05Feb2003	30.0	100.0	130.0
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13Feb2003	30.0	100.0	130.0
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22Feb2003	30.0	100.0	130.0
23Feb2003	30.0	100.0	130.0
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22Mar2003	30.0	100.0	130.0
23Mar2003	30.0	100.0	130.0
24Mar2003	30.0	100.0	130.0
25Mar2003	30.0	100.0	130.0
26Mar2003	30.0	100.0	130.0

27Mar2003	30.0	100.0	130.0
28Mar2003	30.0	100.0	130.0
29Mar2003	30.0	100.0	130.0
30Mar2003	30.0	100.0	130.0
31Mar2003	30.0	100.0	130.0
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22Apr2003	40.0	79.0	119.0
23Apr2003	40.0	78.0	118.0
24Apr2003	40.0	77.0	117.0
25Apr2003	40.0	76.0	116.0
26Apr2003	40.0	75.0	115.0
27Apr2003	40.0	74.0	114.0
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20May2003	45.0	70.0	115.0
21May2003	45.0	70.0	115.0

22May2003	45.0	70.0	115.0
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21Jul2003	55.0	70.0	125.0
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28Jul2003	55.0	70.0	125.0
29Jul2003	55.0	70.0	125.0
30Jul2003	55.0	70.0	125.0
31Jul2003	55.0	70.0	125.0
01Aug2003	70.0	70.0	140.0
02Aug2003	70.0	70.0	140.0
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05Sep2003	65.0	71.3	136.3
06Sep2003	65.0	71.7	136.7
07Sep2003	65.0	72.0	137.0
08Sep2003	65.0	72.3	137.3
09Sep2003	65.0	72.7	137.7
10Sep2003	65.0	73.0	138.0

11Sep2003	65.0	73.3	138.3
12Sep2003	65.0	73.7	138.7
13Sep2003	65.0	74.0	139.0
14Sep2003	65.0	74.3	139.3
15Sep2003	65.0	74.7	139.7
16Sep2003	65.0	75.0	140.0
17Sep2003	65.0	75.3	140.3
18Sep2003	65.0	75.7	140.7
19Sep2003	65.0	76.0	141.0
20Sep2003	65.0	76.3	141.3
21Sep2003	65.0	76.7	141.7
22Sep2003	65.0	77.0	142.0
23Sep2003	65.0	77.3	142.3
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25Sep2003	65.0	78.0	143.0
26Sep2003	65.0	78.3	143.3
27Sep2003	65.0	78.7	143.7
28Sep2003	65.0	79.0	144.0
29Sep2003	65.0	79.3	144.3
30Sep2003	65.0	79.7	144.7
01Oct2003	30.0	80.0	110.0
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24Dec2003	1.0	80.0	81.0
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29Dec2003	1.0	80.0	81.0
30Dec2003	1.0	80.0	81.0
31Dec2003	1.0	80.0	81.0

01Jan2004	19.0	80.0	99.0
02Jan2004	290.0	158.5	448.5
03Jan2004	318.0	173.8	491.8
04Jan2004	127.0	81.9	208.9
05Jan2004	74.0	82.6	156.6
06Jan2004	43.0	83.2	126.2
07Jan2004	27.0	83.9	110.9
08Jan2004	17.0	84.5	101.5
09Jan2004	11.0	85.2	96.2
10Jan2004	10.0	85.8	95.8
11Jan2004	10.0	86.5	96.5
12Jan2004	10.0	87.1	97.1
13Jan2004	10.0	87.7	97.7
14Jan2004	10.0	88.4	98.4
15Jan2004	10.0	89.0	99.0
16Jan2004	10.0	89.7	99.7
17Jan2004	10.0	90.3	100.3
18Jan2004	10.0	91.0	101.0
19Jan2004	10.0	91.6	101.6
20Jan2004	10.0	92.3	102.3
21Jan2004	10.0	92.9	102.9
22Jan2004	10.0	93.5	103.5
23Jan2004	10.0	94.2	104.2
24Jan2004	10.0	94.8	104.8
25Jan2004	10.0	95.5	105.5
26Jan2004	10.0	96.1	106.1
27Jan2004	10.0	96.8	106.8
28Jan2004	10.0	97.4	107.4
29Jan2004	10.0	98.1	108.1
30Jan2004	10.0	98.7	108.7
31Jan2004	10.0	99.4	109.4
01Feb2004	30.0	100.0	130.0
02Feb2004	30.0	100.0	130.0
03Feb2004	30.0	100.0	130.0
04Feb2004	30.0	100.0	130.0
05Feb2004	30.0	100.0	130.0
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07Feb2004	30.0	100.0	130.0
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14Feb2004	30.0	100.0	130.0
15Feb2004	30.0	100.0	130.0
16Feb2004	30.0	100.0	130.0
17Feb2004	30.0	100.0	130.0
18Feb2004	30.0	100.0	130.0
19Feb2004	733.0	400.5	1133.5
20Feb2004	226.0	123.5	349.5
21Feb2004	87.0	100.0	187.0
22Feb2004	50.0	100.0	150.0
23Feb2004	36.0	100.0	136.0
24Feb2004	28.0	100.0	128.0
25Feb2004	32.0	100.0	132.0

26Feb2004	664.0	362.8	1026.8
27Feb2004	1010.0	551.9	1561.9
28Feb2004	377.0	206.0	583.0
29Feb2004	139.0	100.0	239.0
01Mar2004	87.0	100.0	187.0
02Mar2004	82.0	100.0	182.0
03Mar2004	93.0	100.0	193.0
04Mar2004	68.0	100.0	168.0
05Mar2004	46.0	100.0	146.0
06Mar2004	33.0	100.0	133.0
07Mar2004	30.0	100.0	130.0
08Mar2004	30.0	100.0	130.0
09Mar2004	30.0	100.0	130.0
10Mar2004	30.0	100.0	130.0
11Mar2004	30.0	100.0	130.0
12Mar2004	30.0	100.0	130.0
13Mar2004	30.0	100.0	130.0
14Mar2004	30.0	100.0	130.0
15Mar2004	30.0	100.0	130.0
16Mar2004	30.0	100.0	130.0
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21Mar2004	30.0	100.0	130.0
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23Mar2004	30.0	100.0	130.0
24Mar2004	30.0	100.0	130.0
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15Apr2004	40.0	86.0	126.0
16Apr2004	40.0	85.0	125.0
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18Apr2004	40.0	83.0	123.0
19Apr2004	40.0	82.0	122.0
20Apr2004	40.0	81.0	121.0
21Apr2004	40.0	80.0	120.0

22Apr2004	40.0	79.0	119.0
23Apr2004	40.0	78.0	118.0
24Apr2004	40.0	77.0	117.0
25Apr2004	40.0	76.0	116.0
26Apr2004	40.0	75.0	115.0
27Apr2004	40.0	74.0	114.0
28Apr2004	40.0	73.0	113.0
29Apr2004	40.0	72.0	112.0
30Apr2004	40.0	71.0	111.0
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02Sep2004	65.0	70.3	135.3
03Sep2004	65.0	70.7	135.7
04Sep2004	65.0	71.0	136.0
05Sep2004	65.0	71.3	136.3
06Sep2004	65.0	71.7	136.7
07Sep2004	65.0	72.0	137.0
08Sep2004	65.0	72.3	137.3
09Sep2004	65.0	72.7	137.7
10Sep2004	65.0	73.0	138.0
11Sep2004	65.0	73.3	138.3
12Sep2004	65.0	73.7	138.7
13Sep2004	65.0	74.0	139.0
14Sep2004	65.0	74.3	139.3
15Sep2004	65.0	74.7	139.7
16Sep2004	65.0	75.0	140.0
17Sep2004	65.0	75.3	140.3
18Sep2004	65.0	75.7	140.7
19Sep2004	65.0	76.0	141.0
20Sep2004	65.0	76.3	141.3
21Sep2004	65.0	76.7	141.7
22Sep2004	65.0	77.0	142.0
23Sep2004	65.0	77.3	142.3
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25Sep2004	65.0	78.0	143.0
26Sep2004	65.0	78.3	143.3
27Sep2004	65.0	78.7	143.7
28Sep2004	65.0	79.0	144.0
29Sep2004	65.0	79.3	144.3
30Sep2004	65.0	79.7	144.7
01Oct2004	30.0	80.0	110.0
02Oct2004	30.0	80.0	110.0
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18Nov2004	3.0	80.0	83.0
19Nov2004	3.0	80.0	83.0
20Nov2004	3.0	80.0	83.0
21Nov2004	3.0	80.0	83.0
22Nov2004	3.0	80.0	83.0
23Nov2004	3.0	80.0	83.0
24Nov2004	3.0	80.0	83.0
25Nov2004	3.0	80.0	83.0
26Nov2004	3.0	80.0	83.0
27Nov2004	3.0	80.0	83.0
28Nov2004	3.0	80.0	83.0
29Nov2004	3.0	80.0	83.0
30Nov2004	3.0	80.0	83.0
01Dec2004	1.0	80.0	81.0

02Dec2004	1.0	80.0	81.0
03Dec2004	1.0	80.0	81.0
04Dec2004	1.0	80.0	81.0
05Dec2004	1.0	80.0	81.0
06Dec2004	1.0	80.0	81.0
07Dec2004	1.0	80.0	81.0
08Dec2004	1.0	80.0	81.0
09Dec2004	1.0	80.0	81.0
10Dec2004	1.0	80.0	81.0
11Dec2004	1.0	80.0	81.0
12Dec2004	1.0	80.0	81.0
13Dec2004	1.0	80.0	81.0
14Dec2004	1.0	80.0	81.0
15Dec2004	1.0	80.0	81.0
16Dec2004	1.0	80.0	81.0
17Dec2004	1.0	80.0	81.0
18Dec2004	1.0	80.0	81.0
19Dec2004	1.0	80.0	81.0
20Dec2004	1.0	80.0	81.0
21Dec2004	1.0	80.0	81.0
22Dec2004	1.0	80.0	81.0
23Dec2004	1.0	80.0	81.0
24Dec2004	1.0	80.0	81.0
25Dec2004	1.0	80.0	81.0
26Dec2004	1.0	80.0	81.0
27Dec2004	1.0	80.0	81.0
28Dec2004	1.0	80.0	81.0
29Dec2004	1.0	80.0	81.0
30Dec2004	1.0	80.0	81.0
31Dec2004	214.0	116.9	330.9
01Jan2005	1270.0	693.9	1963.9
02Jan2005	511.0	279.2	790.2
03Jan2005	316.0	172.7	488.7
04Jan2005	1300.0	710.3	2010.3
05Jan2005	372.0	203.3	575.3
06Jan2005	147.0	83.2	230.2
07Jan2005	85.0	83.9	168.9
08Jan2005	249.0	136.1	385.1
09Jan2005	895.0	489.0	1384.0
10Jan2005	2270.0	1240.3	3510.3
11Jan2005	1700.0	928.9	2628.9
12Jan2005	2090.0	1142.0	3232.0
13Jan2005	589.0	321.8	910.8
14Jan2005	245.0	133.9	378.9
15Jan2005	157.0	89.0	246.0
16Jan2005	120.0	89.7	209.7
17Jan2005	94.0	90.3	184.3
18Jan2005	72.0	91.0	163.0
19Jan2005	57.0	91.6	148.6
20Jan2005	45.0	92.3	137.3
21Jan2005	42.0	92.9	134.9
22Jan2005	37.0	93.5	130.5
23Jan2005	33.0	94.2	127.2
24Jan2005	30.0	94.8	124.8
25Jan2005	28.0	95.5	123.5
26Jan2005	29.0	96.1	125.1

27Jan2005	487.0	266.1	753.1
28Jan2005	581.0	317.5	898.5
29Jan2005	2250.0	1229.4	3479.4
30Jan2005	643.0	351.3	994.3
31Jan2005	242.0	132.2	374.2
01Feb2005	154.0	100.0	254.0
02Feb2005	120.0	100.0	220.0
03Feb2005	92.0	100.0	192.0
04Feb2005	30.0	100.0	130.0
05Feb2005	30.0	100.0	130.0
06Feb2005	30.0	100.0	130.0
07Feb2005	30.0	100.0	130.0
08Feb2005	30.0	100.0	130.0
09Feb2005	30.0	100.0	130.0
10Feb2005	30.0	100.0	130.0
11Feb2005	30.0	100.0	130.0
12Feb2005	30.0	100.0	130.0
13Feb2005	30.0	100.0	130.0
14Feb2005	30.0	100.0	130.0
15Feb2005	30.0	100.0	130.0
16Feb2005	299.0	163.4	462.4
17Feb2005	985.0	538.2	1523.2
18Feb2005	301.0	164.5	465.5
19Feb2005	483.0	263.9	746.9
20Feb2005	849.0	463.9	1312.9
21Feb2005	908.0	496.1	1404.1
22Feb2005	292.0	159.6	451.6
23Feb2005	385.0	210.4	595.4
24Feb2005	342.0	186.9	528.9
25Feb2005	97.0	100.0	197.0
26Feb2005	56.0	100.0	156.0
27Feb2005	46.0	100.0	146.0
28Feb2005	148.0	100.0	248.0
01Mar2005	794.0	433.8	1227.8
02Mar2005	470.0	256.8	726.8
03Mar2005	455.0	248.6	703.6
04Mar2005	428.0	233.9	661.9
05Mar2005	279.0	152.4	431.4
06Mar2005	214.0	116.9	330.9
07Mar2005	162.0	100.0	262.0
08Mar2005	30.0	100.0	130.0
09Mar2005	30.0	100.0	130.0
10Mar2005	30.0	100.0	130.0
11Mar2005	30.0	100.0	130.0
12Mar2005	30.0	100.0	130.0
13Mar2005	30.0	100.0	130.0
14Mar2005	30.0	100.0	130.0
15Mar2005	30.0	100.0	130.0
16Mar2005	30.0	100.0	130.0
17Mar2005	30.0	100.0	130.0
18Mar2005	30.0	100.0	130.0
19Mar2005	30.0	100.0	130.0
20Mar2005	30.0	100.0	130.0
21Mar2005	30.0	100.0	130.0
22Mar2005	58.0	100.0	158.0
23Mar2005	1350.0	737.6	2087.6

24Mar2005	1980.0	1081.9	3061.9
25Mar2005	905.0	494.5	1399.5
26Mar2005	520.0	284.1	804.1
27Mar2005	422.0	230.6	652.6
28Mar2005	390.0	213.1	603.1
29Mar2005	660.0	360.6	1020.6
30Mar2005	212.0	115.8	327.8
31Mar2005	142.0	100.0	242.0
01Apr2005	114.0	100.0	214.0
02Apr2005	40.0	99.0	139.0
03Apr2005	40.0	98.0	138.0
04Apr2005	40.0	97.0	137.0
05Apr2005	40.0	96.0	136.0
06Apr2005	40.0	95.0	135.0
07Apr2005	40.0	94.0	134.0
08Apr2005	40.0	93.0	133.0
09Apr2005	40.0	92.0	132.0
10Apr2005	40.0	91.0	131.0
11Apr2005	40.0	90.0	130.0
12Apr2005	40.0	89.0	129.0
13Apr2005	40.0	88.0	128.0
14Apr2005	40.0	87.0	127.0
15Apr2005	40.0	86.0	126.0
16Apr2005	40.0	85.0	125.0
17Apr2005	40.0	84.0	124.0
18Apr2005	40.0	83.0	123.0
19Apr2005	40.0	82.0	122.0
20Apr2005	40.0	81.0	121.0
21Apr2005	40.0	80.0	120.0
22Apr2005	40.0	79.0	119.0
23Apr2005	40.0	78.0	118.0
24Apr2005	40.0	77.0	117.0
25Apr2005	40.0	76.0	116.0
26Apr2005	40.0	75.0	115.0
27Apr2005	40.0	74.0	114.0
28Apr2005	40.0	73.0	113.0
29Apr2005	40.0	72.0	112.0
30Apr2005	40.0	71.0	111.0
01May2005	45.0	70.0	115.0
02May2005	45.0	70.0	115.0
03May2005	45.0	70.0	115.0
04May2005	45.0	70.0	115.0
05May2005	45.0	70.0	115.0
06May2005	45.0	70.0	115.0
07May2005	45.0	70.0	115.0
08May2005	45.0	70.0	115.0
09May2005	45.0	70.0	115.0
10May2005	45.0	70.0	115.0
11May2005	45.0	70.0	115.0
12May2005	45.0	70.0	115.0
13May2005	45.0	70.0	115.0
14May2005	45.0	70.0	115.0
15May2005	45.0	70.0	115.0
16May2005	45.0	70.0	115.0
17May2005	45.0	70.0	115.0
18May2005	45.0	70.0	115.0

19May2005	45.0	70.0	115.0
20May2005	45.0	70.0	115.0
21May2005	45.0	70.0	115.0
22May2005	45.0	70.0	115.0
23May2005	45.0	70.0	115.0
24May2005	45.0	70.0	115.0
25May2005	45.0	70.0	115.0
26May2005	45.0	70.0	115.0
27May2005	45.0	70.0	115.0
28May2005	45.0	70.0	115.0
29May2005	45.0	70.0	115.0
30May2005	45.0	70.0	115.0
31May2005	45.0	70.0	115.0
01Jun2005	50.0	70.0	120.0
02Jun2005	50.0	70.0	120.0
03Jun2005	50.0	70.0	120.0
04Jun2005	50.0	70.0	120.0
05Jun2005	50.0	70.0	120.0
06Jun2005	50.0	70.0	120.0
07Jun2005	50.0	70.0	120.0
08Jun2005	50.0	70.0	120.0
09Jun2005	50.0	70.0	120.0
10Jun2005	50.0	70.0	120.0
11Jun2005	50.0	70.0	120.0
12Jun2005	50.0	70.0	120.0
13Jun2005	50.0	70.0	120.0
14Jun2005	50.0	70.0	120.0
15Jun2005	50.0	70.0	120.0
16Jun2005	50.0	70.0	120.0
17Jun2005	50.0	70.0	120.0
18Jun2005	50.0	70.0	120.0
19Jun2005	50.0	70.0	120.0
20Jun2005	50.0	70.0	120.0
21Jun2005	50.0	70.0	120.0
22Jun2005	50.0	70.0	120.0
23Jun2005	50.0	70.0	120.0
24Jun2005	50.0	70.0	120.0
25Jun2005	50.0	70.0	120.0
26Jun2005	50.0	70.0	120.0
27Jun2005	50.0	70.0	120.0
28Jun2005	50.0	70.0	120.0
29Jun2005	50.0	70.0	120.0
30Jun2005	50.0	70.0	120.0
01Jul2005	55.0	70.0	125.0
02Jul2005	55.0	70.0	125.0
03Jul2005	55.0	70.0	125.0
04Jul2005	55.0	70.0	125.0
05Jul2005	55.0	70.0	125.0
06Jul2005	55.0	70.0	125.0
07Jul2005	55.0	70.0	125.0
08Jul2005	55.0	70.0	125.0
09Jul2005	55.0	70.0	125.0
10Jul2005	55.0	70.0	125.0
11Jul2005	55.0	70.0	125.0
12Jul2005	55.0	70.0	125.0
13Jul2005	55.0	70.0	125.0

14Jul2005	55.0	70.0	125.0
15Jul2005	55.0	70.0	125.0
16Jul2005	55.0	70.0	125.0
17Jul2005	55.0	70.0	125.0
18Jul2005	55.0	70.0	125.0
19Jul2005	55.0	70.0	125.0
20Jul2005	55.0	70.0	125.0
21Jul2005	55.0	70.0	125.0
22Jul2005	55.0	70.0	125.0
23Jul2005	55.0	70.0	125.0
24Jul2005	55.0	70.0	125.0
25Jul2005	55.0	70.0	125.0
26Jul2005	55.0	70.0	125.0
27Jul2005	55.0	70.0	125.0
28Jul2005	55.0	70.0	125.0
29Jul2005	55.0	70.0	125.0
30Jul2005	55.0	70.0	125.0
31Jul2005	55.0	70.0	125.0
01Aug2005	70.0	70.0	140.0
02Aug2005	70.0	70.0	140.0
03Aug2005	70.0	70.0	140.0
04Aug2005	70.0	70.0	140.0
05Aug2005	70.0	70.0	140.0
06Aug2005	70.0	70.0	140.0
07Aug2005	70.0	70.0	140.0
08Aug2005	70.0	70.0	140.0
09Aug2005	70.0	70.0	140.0
10Aug2005	70.0	70.0	140.0
11Aug2005	70.0	70.0	140.0
12Aug2005	70.0	70.0	140.0
13Aug2005	70.0	70.0	140.0
14Aug2005	70.0	70.0	140.0
15Aug2005	70.0	70.0	140.0
16Aug2005	70.0	70.0	140.0
17Aug2005	70.0	70.0	140.0
18Aug2005	70.0	70.0	140.0
19Aug2005	70.0	70.0	140.0
20Aug2005	70.0	70.0	140.0
21Aug2005	70.0	70.0	140.0
22Aug2005	70.0	70.0	140.0
23Aug2005	70.0	70.0	140.0
24Aug2005	70.0	70.0	140.0
25Aug2005	70.0	70.0	140.0
26Aug2005	70.0	70.0	140.0
27Aug2005	70.0	70.0	140.0
28Aug2005	70.0	70.0	140.0
29Aug2005	70.0	70.0	140.0
30Aug2005	70.0	70.0	140.0
31Aug2005	70.0	70.0	140.0
01Sep2005	65.0	70.0	135.0
02Sep2005	65.0	70.3	135.3
03Sep2005	65.0	70.7	135.7
04Sep2005	65.0	71.0	136.0
05Sep2005	65.0	71.3	136.3
06Sep2005	65.0	71.7	136.7
07Sep2005	65.0	72.0	137.0

08Sep2005	65.0	72.3	137.3
09Sep2005	65.0	72.7	137.7
10Sep2005	65.0	73.0	138.0
11Sep2005	65.0	73.3	138.3
12Sep2005	65.0	73.7	138.7
13Sep2005	65.0	74.0	139.0
14Sep2005	65.0	74.3	139.3
15Sep2005	65.0	74.7	139.7
16Sep2005	65.0	75.0	140.0
17Sep2005	65.0	75.3	140.3
18Sep2005	65.0	75.7	140.7
19Sep2005	65.0	76.0	141.0
20Sep2005	65.0	76.3	141.3
21Sep2005	65.0	76.7	141.7
22Sep2005	65.0	77.0	142.0
23Sep2005	65.0	77.3	142.3
24Sep2005	65.0	77.7	142.7
25Sep2005	65.0	78.0	143.0
26Sep2005	65.0	78.3	143.3
27Sep2005	65.0	78.7	143.7
28Sep2005	65.0	79.0	144.0
29Sep2005	65.0	79.3	144.3
30Sep2005	65.0	79.7	144.7
01Oct2005	30.0	80.0	110.0
02Oct2005	30.0	80.0	110.0
03Oct2005	30.0	80.0	110.0
04Oct2005	30.0	80.0	110.0
05Oct2005	30.0	80.0	110.0
06Oct2005	30.0	80.0	110.0
07Oct2005	30.0	80.0	110.0
08Oct2005	30.0	80.0	110.0
09Oct2005	30.0	80.0	110.0
10Oct2005	30.0	80.0	110.0
11Oct2005	30.0	80.0	110.0
12Oct2005	30.0	80.0	110.0
13Oct2005	30.0	80.0	110.0
14Oct2005	30.0	80.0	110.0
15Oct2005	30.0	80.0	110.0
16Oct2005	30.0	80.0	110.0
17Oct2005	30.0	80.0	110.0
18Oct2005	30.0	80.0	110.0
19Oct2005	30.0	80.0	110.0
20Oct2005	30.0	80.0	110.0
21Oct2005	30.0	80.0	110.0
22Oct2005	30.0	80.0	110.0
23Oct2005	30.0	80.0	110.0
24Oct2005	30.0	80.0	110.0
25Oct2005	30.0	80.0	110.0
26Oct2005	30.0	80.0	110.0
27Oct2005	30.0	80.0	110.0
28Oct2005	30.0	80.0	110.0
29Oct2005	30.0	80.0	110.0
30Oct2005	30.0	80.0	110.0
31Oct2005	30.0	80.0	110.0
01Nov2005	3.0	80.0	83.0
02Nov2005	3.0	80.0	83.0

03Nov2005	3.0	80.0	83.0
04Nov2005	3.0	80.0	83.0
05Nov2005	3.0	80.0	83.0
06Nov2005	3.0	80.0	83.0
07Nov2005	3.0	80.0	83.0
08Nov2005	3.0	80.0	83.0
09Nov2005	3.0	80.0	83.0
10Nov2005	3.0	80.0	83.0
11Nov2005	3.0	80.0	83.0
12Nov2005	3.0	80.0	83.0
13Nov2005	3.0	80.0	83.0
14Nov2005	3.0	80.0	83.0
15Nov2005	3.0	80.0	83.0
16Nov2005	3.0	80.0	83.0
17Nov2005	3.0	80.0	83.0
18Nov2005	3.0	80.0	83.0
19Nov2005	3.0	80.0	83.0
20Nov2005	3.0	80.0	83.0
21Nov2005	3.0	80.0	83.0
22Nov2005	3.0	80.0	83.0
23Nov2005	3.0	80.0	83.0
24Nov2005	3.0	80.0	83.0
25Nov2005	3.0	80.0	83.0
26Nov2005	3.0	80.0	83.0
27Nov2005	3.0	80.0	83.0
28Nov2005	3.0	80.0	83.0
29Nov2005	3.0	80.0	83.0
30Nov2005	3.0	80.0	83.0
01Dec2005	1.0	80.0	81.0
02Dec2005	1.0	80.0	81.0
03Dec2005	1.0	80.0	81.0
04Dec2005	1.0	80.0	81.0
05Dec2005	1.0	80.0	81.0
06Dec2005	1.0	80.0	81.0
07Dec2005	1.0	80.0	81.0
08Dec2005	1.0	80.0	81.0
09Dec2005	1.0	80.0	81.0
10Dec2005	1.0	80.0	81.0
11Dec2005	1.0	80.0	81.0
12Dec2005	1.0	80.0	81.0
13Dec2005	1.0	80.0	81.0
14Dec2005	1.0	80.0	81.0
15Dec2005	1.0	80.0	81.0
16Dec2005	1.0	80.0	81.0
17Dec2005	1.0	80.0	81.0
18Dec2005	1.0	80.0	81.0
19Dec2005	1.0	80.0	81.0
20Dec2005	1.0	80.0	81.0
21Dec2005	1.0	80.0	81.0
22Dec2005	1.0	80.0	81.0
23Dec2005	1.0	80.0	81.0
24Dec2005	1.0	80.0	81.0
25Dec2005	1.0	80.0	81.0
26Dec2005	1.0	80.0	81.0
27Dec2005	1.0	80.0	81.0
28Dec2005	39.0	80.0	119.0

29Dec2005	190.0	103.8	293.8
30Dec2005	219.0	119.7	338.7
31Dec2005	202.0	110.4	312.4
01Jan2006	158.0	86.3	244.3
02Jan2006	272.0	148.6	420.6
03Jan2006	3130.0	1710.2	4840.2
04Jan2006	1100.0	601.0	1701.0
05Jan2006	377.0	206.0	583.0
06Jan2006	286.0	156.3	442.3
07Jan2006	251.0	137.1	388.1
08Jan2006	239.0	130.6	369.6
09Jan2006	238.0	130.0	368.0
10Jan2006	65.0	85.8	150.8
11Jan2006	11.0	86.5	97.5
12Jan2006	10.0	87.1	97.1
13Jan2006	10.0	87.7	97.7
14Jan2006	10.0	88.4	98.4
15Jan2006	10.0	89.0	99.0
16Jan2006	56.0	89.7	145.7
17Jan2006	33.0	90.3	123.3
18Jan2006	40.0	91.0	131.0
19Jan2006	348.0	190.1	538.1
20Jan2006	447.0	244.2	691.2
21Jan2006	314.0	171.6	485.6
22Jan2006	281.0	153.5	434.5
23Jan2006	270.0	147.5	417.5
24Jan2006	267.0	145.9	412.9
25Jan2006	236.0	129.0	365.0
26Jan2006	47.0	96.1	143.1
27Jan2006	10.0	96.8	106.8
28Jan2006	10.0	97.4	107.4
29Jan2006	10.0	98.1	108.1
30Jan2006	10.0	98.7	108.7
31Jan2006	10.0	99.4	109.4
01Feb2006	30.0	100.0	130.0
02Feb2006	30.0	100.0	130.0
03Feb2006	30.0	100.0	130.0
04Feb2006	30.0	100.0	130.0
05Feb2006	30.0	100.0	130.0
06Feb2006	30.0	100.0	130.0
07Feb2006	30.0	100.0	130.0
08Feb2006	30.0	100.0	130.0
09Feb2006	30.0	100.0	130.0
10Feb2006	30.0	100.0	130.0
11Feb2006	30.0	100.0	130.0
12Feb2006	30.0	100.0	130.0
13Feb2006	30.0	100.0	130.0
14Feb2006	30.0	100.0	130.0
15Feb2006	30.0	100.0	130.0
16Feb2006	30.0	100.0	130.0
17Feb2006	30.0	100.0	130.0
18Feb2006	30.0	100.0	130.0
19Feb2006	30.0	100.0	130.0
20Feb2006	30.0	100.0	130.0
21Feb2006	30.0	100.0	130.0
22Feb2006	30.0	100.0	130.0

23Feb2006	30.0	100.0	130.0
24Feb2006	30.0	100.0	130.0
25Feb2006	30.0	100.0	130.0
26Feb2006	30.0	100.0	130.0
27Feb2006	30.0	100.0	130.0
28Feb2006	30.0	100.0	130.0
01Mar2006	64.0	100.0	164.0
02Mar2006	91.0	100.0	191.0
03Mar2006	60.0	100.0	160.0
04Mar2006	114.0	100.0	214.0
05Mar2006	136.0	100.0	236.0
06Mar2006	77.0	100.0	177.0
07Mar2006	218.0	119.1	337.1
08Mar2006	189.0	103.3	292.3
09Mar2006	397.0	216.9	613.9
10Mar2006	272.0	148.6	420.6
11Mar2006	248.0	135.5	383.5
12Mar2006	340.0	185.8	525.8
13Mar2006	358.0	195.6	553.6
14Mar2006	276.0	150.8	426.8
15Mar2006	387.0	211.5	598.5
16Mar2006	518.0	283.0	801.0
17Mar2006	306.0	167.2	473.2
18Mar2006	508.0	277.6	785.6
19Mar2006	403.0	220.2	623.2
20Mar2006	212.0	115.8	327.8
21Mar2006	151.0	100.0	251.0
22Mar2006	232.0	126.8	358.8
23Mar2006	113.0	100.0	213.0
24Mar2006	70.0	100.0	170.0
25Mar2006	57.0	100.0	157.0
26Mar2006	679.0	371.0	1050.0
27Mar2006	266.0	145.3	411.3
28Mar2006	128.0	100.0	228.0
29Mar2006	2140.0	1169.3	3309.3
30Mar2006	801.0	437.7	1238.7
31Mar2006	266.0	145.3	411.3
01Apr2006	1630.0	890.6	2520.6
02Apr2006	976.0	533.3	1509.3
03Apr2006	489.0	267.2	756.2
04Apr2006	3050.0	1666.5	4716.5
05Apr2006	5670.0	3098.1	8768.1
06Apr2006	2460.0	1344.2	3804.2
07Apr2006	601.0	328.4	929.4
08Apr2006	299.0	163.4	462.4
09Apr2006	221.0	120.8	341.8
10Apr2006	175.0	95.6	270.6
11Apr2006	152.0	90.0	242.0
12Apr2006	143.0	89.0	232.0
13Apr2006	138.0	88.0	226.0
14Apr2006	135.0	87.0	222.0
15Apr2006	266.0	145.3	411.3
16Apr2006	233.0	127.3	360.3
17Apr2006	300.0	163.9	463.9
18Apr2006	228.0	124.6	352.6
19Apr2006	133.0	82.0	215.0

20Apr2006	107.0	81.0	188.0
21Apr2006	91.0	80.0	171.0
22Apr2006	76.0	79.0	155.0
23Apr2006	61.0	78.0	139.0
24Apr2006	60.0	77.0	137.0
25Apr2006	55.0	76.0	131.0
26Apr2006	54.0	75.0	129.0
27Apr2006	52.0	74.0	126.0
28Apr2006	49.0	73.0	122.0
29Apr2006	47.0	72.0	119.0
30Apr2006	42.0	71.0	113.0
01May2006	41.0	70.0	111.0
02May2006	45.0	70.0	115.0
03May2006	45.0	70.0	115.0
04May2006	45.0	70.0	115.0
05May2006	45.0	70.0	115.0
06May2006	45.0	70.0	115.0
07May2006	45.0	70.0	115.0
08May2006	45.0	70.0	115.0
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22May2006	45.0	70.0	115.0
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24May2006	45.0	70.0	115.0
25May2006	45.0	70.0	115.0
26May2006	45.0	70.0	115.0
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29May2006	45.0	70.0	115.0
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31May2006	45.0	70.0	115.0
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03Jun2006	50.0	70.0	120.0
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07Jun2006	50.0	70.0	120.0
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11Jun2006	50.0	70.0	120.0
12Jun2006	50.0	70.0	120.0
13Jun2006	50.0	70.0	120.0
14Jun2006	50.0	70.0	120.0

15Jun2006	50.0	70.0	120.0
16Jun2006	50.0	70.0	120.0
17Jun2006	50.0	70.0	120.0
18Jun2006	50.0	70.0	120.0
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22Jun2006	50.0	70.0	120.0
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24Jun2006	50.0	70.0	120.0
25Jun2006	50.0	70.0	120.0
26Jun2006	50.0	70.0	120.0
27Jun2006	50.0	70.0	120.0
28Jun2006	50.0	70.0	120.0
29Jun2006	50.0	70.0	120.0
30Jun2006	50.0	70.0	120.0
01Jul2006	55.0	70.0	125.0
02Jul2006	55.0	70.0	125.0
03Jul2006	55.0	70.0	125.0
04Jul2006	55.0	70.0	125.0
05Jul2006	55.0	70.0	125.0
06Jul2006	55.0	70.0	125.0
07Jul2006	55.0	70.0	125.0
08Jul2006	55.0	70.0	125.0
09Jul2006	55.0	70.0	125.0
10Jul2006	55.0	70.0	125.0
11Jul2006	55.0	70.0	125.0
12Jul2006	55.0	70.0	125.0
13Jul2006	55.0	70.0	125.0
14Jul2006	55.0	70.0	125.0
15Jul2006	55.0	70.0	125.0
16Jul2006	55.0	70.0	125.0
17Jul2006	55.0	70.0	125.0
18Jul2006	55.0	70.0	125.0
19Jul2006	55.0	70.0	125.0
20Jul2006	55.0	70.0	125.0
21Jul2006	55.0	70.0	125.0
22Jul2006	55.0	70.0	125.0
23Jul2006	55.0	70.0	125.0
24Jul2006	55.0	70.0	125.0
25Jul2006	55.0	70.0	125.0
26Jul2006	55.0	70.0	125.0
27Jul2006	55.0	70.0	125.0
28Jul2006	55.0	70.0	125.0
29Jul2006	55.0	70.0	125.0
30Jul2006	55.0	70.0	125.0
31Jul2006	55.0	70.0	125.0
01Aug2006	70.0	70.0	140.0
02Aug2006	70.0	70.0	140.0
03Aug2006	70.0	70.0	140.0
04Aug2006	70.0	70.0	140.0
05Aug2006	70.0	70.0	140.0
06Aug2006	70.0	70.0	140.0
07Aug2006	70.0	70.0	140.0
08Aug2006	70.0	70.0	140.0
09Aug2006	70.0	70.0	140.0

10Aug2006	70.0	70.0	140.0
11Aug2006	70.0	70.0	140.0
12Aug2006	70.0	70.0	140.0
13Aug2006	70.0	70.0	140.0
14Aug2006	70.0	70.0	140.0
15Aug2006	70.0	70.0	140.0
16Aug2006	70.0	70.0	140.0
17Aug2006	70.0	70.0	140.0
18Aug2006	70.0	70.0	140.0
19Aug2006	70.0	70.0	140.0
20Aug2006	70.0	70.0	140.0
21Aug2006	70.0	70.0	140.0
22Aug2006	70.0	70.0	140.0
23Aug2006	70.0	70.0	140.0
24Aug2006	70.0	70.0	140.0
25Aug2006	70.0	70.0	140.0
26Aug2006	70.0	70.0	140.0
27Aug2006	70.0	70.0	140.0
28Aug2006	70.0	70.0	140.0
29Aug2006	70.0	70.0	140.0
30Aug2006	70.0	70.0	140.0
31Aug2006	70.0	70.0	140.0
01Sep2006	65.0	70.0	135.0
02Sep2006	65.0	70.3	135.3
03Sep2006	65.0	70.7	135.7
04Sep2006	65.0	71.0	136.0
05Sep2006	65.0	71.3	136.3
06Sep2006	65.0	71.7	136.7
07Sep2006	65.0	72.0	137.0
08Sep2006	65.0	72.3	137.3
09Sep2006	65.0	72.7	137.7
10Sep2006	65.0	73.0	138.0
11Sep2006	65.0	73.3	138.3
12Sep2006	65.0	73.7	138.7
13Sep2006	65.0	74.0	139.0
14Sep2006	65.0	74.3	139.3
15Sep2006	65.0	74.7	139.7
16Sep2006	65.0	75.0	140.0
17Sep2006	65.0	75.3	140.3
18Sep2006	65.0	75.7	140.7
19Sep2006	65.0	76.0	141.0
20Sep2006	65.0	76.3	141.3
21Sep2006	65.0	76.7	141.7
22Sep2006	65.0	77.0	142.0
23Sep2006	65.0	77.3	142.3
24Sep2006	65.0	77.7	142.7
25Sep2006	65.0	78.0	143.0
26Sep2006	65.0	78.3	143.3
27Sep2006	65.0	78.7	143.7
28Sep2006	65.0	79.0	144.0
29Sep2006	65.0	79.3	144.3
30Sep2006	65.0	79.7	144.7
01Oct2006	30.0	80.0	110.0
02Oct2006	30.0	80.0	110.0
03Oct2006	30.0	80.0	110.0
04Oct2006	30.0	80.0	110.0

05Oct2006	30.0	80.0	110.0
06Oct2006	30.0	80.0	110.0
07Oct2006	30.0	80.0	110.0
08Oct2006	30.0	80.0	110.0
09Oct2006	30.0	80.0	110.0
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13Oct2006	30.0	80.0	110.0
14Oct2006	30.0	80.0	110.0
15Oct2006	30.0	80.0	110.0
16Oct2006	30.0	80.0	110.0
17Oct2006	30.0	80.0	110.0
18Oct2006	30.0	80.0	110.0
19Oct2006	30.0	80.0	110.0
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21Oct2006	30.0	80.0	110.0
22Oct2006	30.0	80.0	110.0
23Oct2006	30.0	80.0	110.0
24Oct2006	30.0	80.0	110.0
25Oct2006	30.0	80.0	110.0
26Oct2006	30.0	80.0	110.0
27Oct2006	30.0	80.0	110.0
28Oct2006	30.0	80.0	110.0
29Oct2006	30.0	80.0	110.0
30Oct2006	30.0	80.0	110.0
31Oct2006	30.0	80.0	110.0
01Nov2006	3.0	80.0	83.0
02Nov2006	3.0	80.0	83.0
03Nov2006	3.0	80.0	83.0
04Nov2006	3.0	80.0	83.0
05Nov2006	3.0	80.0	83.0
06Nov2006	3.0	80.0	83.0
07Nov2006	3.0	80.0	83.0
08Nov2006	3.0	80.0	83.0
09Nov2006	3.0	80.0	83.0
10Nov2006	3.0	80.0	83.0
11Nov2006	3.0	80.0	83.0
12Nov2006	3.0	80.0	83.0
13Nov2006	3.0	80.0	83.0
14Nov2006	3.0	80.0	83.0
15Nov2006	3.0	80.0	83.0
16Nov2006	3.0	80.0	83.0
17Nov2006	3.0	80.0	83.0
18Nov2006	3.0	80.0	83.0
19Nov2006	3.0	80.0	83.0
20Nov2006	3.0	80.0	83.0
21Nov2006	3.0	80.0	83.0
22Nov2006	3.0	80.0	83.0
23Nov2006	3.0	80.0	83.0
24Nov2006	3.0	80.0	83.0
25Nov2006	3.0	80.0	83.0
26Nov2006	3.0	80.0	83.0
27Nov2006	3.0	80.0	83.0
28Nov2006	3.0	80.0	83.0
29Nov2006	3.0	80.0	83.0

30Nov2006	3.0	80.0	83.0
01Dec2006	1.0	80.0	81.0
02Dec2006	1.0	80.0	81.0
03Dec2006	1.0	80.0	81.0
04Dec2006	1.0	80.0	81.0
05Dec2006	1.0	80.0	81.0
06Dec2006	1.0	80.0	81.0
07Dec2006	1.0	80.0	81.0
08Dec2006	1.0	80.0	81.0
09Dec2006	1.0	80.0	81.0
10Dec2006	1.0	80.0	81.0
11Dec2006	1.0	80.0	81.0
12Dec2006	1.0	80.0	81.0
13Dec2006	1.0	80.0	81.0
14Dec2006	1.0	80.0	81.0
15Dec2006	1.0	80.0	81.0
16Dec2006	1.0	80.0	81.0
17Dec2006	1.0	80.0	81.0
18Dec2006	1.0	80.0	81.0
19Dec2006	1.0	80.0	81.0
20Dec2006	1.0	80.0	81.0
21Dec2006	1.0	80.0	81.0
22Dec2006	1.0	80.0	81.0
23Dec2006	1.0	80.0	81.0
24Dec2006	1.0	80.0	81.0
25Dec2006	1.0	80.0	81.0
26Dec2006	1.0	80.0	81.0
27Dec2006	1.0	80.0	81.0
28Dec2006	1.0	80.0	81.0
29Dec2006	1.0	80.0	81.0
30Dec2006	1.0	80.0	81.0
31Dec2006	1.0	80.0	81.0
01Jan2007	10.0	80.0	90.0
02Jan2007	10.0	80.6	90.6
03Jan2007	10.0	81.3	91.3
04Jan2007	10.0	81.9	91.9
05Jan2007	10.0	82.6	92.6
06Jan2007	10.0	83.2	93.2
07Jan2007	10.0	83.9	93.9
08Jan2007	10.0	84.5	94.5
09Jan2007	10.0	85.2	95.2
10Jan2007	10.0	85.8	95.8
11Jan2007	10.0	86.5	96.5
12Jan2007	10.0	87.1	97.1
13Jan2007	10.0	87.7	97.7
14Jan2007	10.0	88.4	98.4
15Jan2007	10.0	89.0	99.0
16Jan2007	10.0	89.7	99.7
17Jan2007	10.0	90.3	100.3
18Jan2007	10.0	91.0	101.0
19Jan2007	10.0	91.6	101.6
20Jan2007	10.0	92.3	102.3
21Jan2007	10.0	92.9	102.9
22Jan2007	10.0	93.5	103.5
23Jan2007	10.0	94.2	104.2
24Jan2007	10.0	94.8	104.8

25Jan2007	10.0	95.5	105.5
26Jan2007	10.0	96.1	106.1
27Jan2007	10.0	96.8	106.8
28Jan2007	10.0	97.4	107.4
29Jan2007	10.0	98.1	108.1
30Jan2007	10.0	98.7	108.7
31Jan2007	10.0	99.4	109.4
01Feb2007	30.0	100.0	130.0
02Feb2007	30.0	100.0	130.0
03Feb2007	30.0	100.0	130.0
04Feb2007	30.0	100.0	130.0
05Feb2007	30.0	100.0	130.0
06Feb2007	30.0	100.0	130.0
07Feb2007	30.0	100.0	130.0
08Feb2007	30.0	100.0	130.0
09Feb2007	30.0	100.0	130.0
10Feb2007	30.0	100.0	130.0
11Feb2007	30.0	100.0	130.0
12Feb2007	58.0	100.0	158.0
13Feb2007	108.0	100.0	208.0
14Feb2007	42.0	100.0	142.0
15Feb2007	30.0	100.0	130.0
16Feb2007	30.0	100.0	130.0
17Feb2007	30.0	100.0	130.0
18Feb2007	30.0	100.0	130.0
19Feb2007	30.0	100.0	130.0
20Feb2007	30.0	100.0	130.0
21Feb2007	30.0	100.0	130.0
22Feb2007	30.0	100.0	130.0
23Feb2007	30.0	100.0	130.0
24Feb2007	30.0	100.0	130.0
25Feb2007	30.0	100.0	130.0
26Feb2007	30.0	100.0	130.0
27Feb2007	162.0	100.0	262.0
28Feb2007	442.0	241.5	683.5
01Mar2007	270.0	147.5	417.5
02Mar2007	115.0	100.0	215.0
03Mar2007	63.0	100.0	163.0
04Mar2007	45.0	100.0	145.0
05Mar2007	31.0	100.0	131.0
06Mar2007	30.0	100.0	130.0
07Mar2007	30.0	100.0	130.0
08Mar2007	30.0	100.0	130.0
09Mar2007	30.0	100.0	130.0
10Mar2007	30.0	100.0	130.0
11Mar2007	30.0	100.0	130.0
12Mar2007	30.0	100.0	130.0
13Mar2007	30.0	100.0	130.0
14Mar2007	30.0	100.0	130.0
15Mar2007	30.0	100.0	130.0
16Mar2007	30.0	100.0	130.0
17Mar2007	30.0	100.0	130.0
18Mar2007	30.0	100.0	130.0
19Mar2007	30.0	100.0	130.0
20Mar2007	30.0	100.0	130.0
21Mar2007	30.0	100.0	130.0

22Mar2007	30.0	100.0	130.0
23Mar2007	30.0	100.0	130.0
24Mar2007	30.0	100.0	130.0
25Mar2007	30.0	100.0	130.0
26Mar2007	30.0	100.0	130.0
27Mar2007	30.0	100.0	130.0
28Mar2007	30.0	100.0	130.0
29Mar2007	30.0	100.0	130.0
30Mar2007	30.0	100.0	130.0
31Mar2007	30.0	100.0	130.0
01Apr2007	40.0	100.0	140.0
02Apr2007	40.0	99.0	139.0
03Apr2007	40.0	98.0	138.0
04Apr2007	40.0	97.0	137.0
05Apr2007	40.0	96.0	136.0
06Apr2007	40.0	95.0	135.0
07Apr2007	40.0	94.0	134.0
08Apr2007	40.0	93.0	133.0
09Apr2007	40.0	92.0	132.0
10Apr2007	40.0	91.0	131.0
11Apr2007	40.0	90.0	130.0
12Apr2007	40.0	89.0	129.0
13Apr2007	40.0	88.0	128.0
14Apr2007	40.0	87.0	127.0
15Apr2007	40.0	86.0	126.0
16Apr2007	40.0	85.0	125.0
17Apr2007	40.0	84.0	124.0
18Apr2007	40.0	83.0	123.0
19Apr2007	40.0	82.0	122.0
20Apr2007	40.0	81.0	121.0
21Apr2007	40.0	80.0	120.0
22Apr2007	40.0	79.0	119.0
23Apr2007	40.0	78.0	118.0
24Apr2007	40.0	77.0	117.0
25Apr2007	40.0	76.0	116.0
26Apr2007	40.0	75.0	115.0
27Apr2007	40.0	74.0	114.0
28Apr2007	40.0	73.0	113.0
29Apr2007	40.0	72.0	112.0
30Apr2007	40.0	71.0	111.0
01May2007	45.0	70.0	115.0
02May2007	45.0	70.0	115.0
03May2007	45.0	70.0	115.0
04May2007	45.0	70.0	115.0
05May2007	45.0	70.0	115.0
06May2007	45.0	70.0	115.0
07May2007	45.0	70.0	115.0
08May2007	45.0	70.0	115.0
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11May2007	45.0	70.0	115.0
12May2007	45.0	70.0	115.0
13May2007	45.0	70.0	115.0
14May2007	45.0	70.0	115.0
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17May2007	45.0	70.0	115.0
18May2007	45.0	70.0	115.0
19May2007	45.0	70.0	115.0
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22May2007	45.0	70.0	115.0
23May2007	45.0	70.0	115.0
24May2007	45.0	70.0	115.0
25May2007	45.0	70.0	115.0
26May2007	45.0	70.0	115.0
27May2007	45.0	70.0	115.0
28May2007	45.0	70.0	115.0
29May2007	45.0	70.0	115.0
30May2007	45.0	70.0	115.0
31May2007	45.0	70.0	115.0
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02Jun2007	50.0	70.0	120.0
03Jun2007	50.0	70.0	120.0
04Jun2007	50.0	70.0	120.0
05Jun2007	50.0	70.0	120.0
06Jun2007	50.0	70.0	120.0
07Jun2007	50.0	70.0	120.0
08Jun2007	50.0	70.0	120.0
09Jun2007	50.0	70.0	120.0
10Jun2007	50.0	70.0	120.0
11Jun2007	50.0	70.0	120.0
12Jun2007	50.0	70.0	120.0
13Jun2007	50.0	70.0	120.0
14Jun2007	50.0	70.0	120.0
15Jun2007	50.0	70.0	120.0
16Jun2007	50.0	70.0	120.0
17Jun2007	50.0	70.0	120.0
18Jun2007	50.0	70.0	120.0
19Jun2007	50.0	70.0	120.0
20Jun2007	50.0	70.0	120.0
21Jun2007	50.0	70.0	120.0
22Jun2007	50.0	70.0	120.0
23Jun2007	50.0	70.0	120.0
24Jun2007	50.0	70.0	120.0
25Jun2007	50.0	70.0	120.0
26Jun2007	50.0	70.0	120.0
27Jun2007	50.0	70.0	120.0
28Jun2007	50.0	70.0	120.0
29Jun2007	50.0	70.0	120.0
30Jun2007	50.0	70.0	120.0
01Jul2007	55.0	70.0	125.0
02Jul2007	55.0	70.0	125.0
03Jul2007	55.0	70.0	125.0
04Jul2007	55.0	70.0	125.0
05Jul2007	55.0	70.0	125.0
06Jul2007	55.0	70.0	125.0
07Jul2007	55.0	70.0	125.0
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10Jul2007	55.0	70.0	125.0
11Jul2007	55.0	70.0	125.0

12Jul2007	55.0	70.0	125.0
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14Jul2007	55.0	70.0	125.0
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02Sep2007	65.0	70.3	135.3
03Sep2007	65.0	70.7	135.7
04Sep2007	65.0	71.0	136.0
05Sep2007	65.0	71.3	136.3

06Sep2007	65.0	71.7	136.7
07Sep2007	65.0	72.0	137.0
08Sep2007	65.0	72.3	137.3
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26Sep2007	65.0	78.3	143.3
27Sep2007	65.0	78.7	143.7
28Sep2007	65.0	79.0	144.0
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30Sep2007	65.0	79.7	144.7
01Oct2007	30.0	80.0	110.0
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31Oct2007	30.0	80.0	110.0

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13Nov2007	3.0	80.0	83.0
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26Nov2007	3.0	80.0	83.0
27Nov2007	3.0	80.0	83.0
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29Nov2007	3.0	80.0	83.0
30Nov2007	3.0	80.0	83.0
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06Dec2007	1.0	80.0	81.0
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14Dec2007	1.0	80.0	81.0
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21Dec2007	1.0	80.0	81.0
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25Dec2007	1.0	80.0	81.0
26Dec2007	1.0	80.0	81.0

27Dec2007	1.0	80.0	81.0
28Dec2007	1.0	80.0	81.0
29Dec2007	1.0	80.0	81.0
30Dec2007	1.0	80.0	81.0
31Dec2007	1.0	80.0	81.0
01Jan2008	10.0	80.0	90.0
02Jan2008	10.0	80.6	90.6
03Jan2008	10.0	81.3	91.3
04Jan2008	10.0	81.9	91.9
05Jan2008	103.0	82.6	185.6
06Jan2008	415.0	226.8	641.8
07Jan2008	442.0	241.5	683.5
08Jan2008	71.0	84.5	155.5
09Jan2008	25.0	85.2	110.2
10Jan2008	15.0	85.8	100.8
11Jan2008	14.0	86.5	100.5
12Jan2008	10.0	87.1	97.1
13Jan2008	10.0	87.7	97.7
14Jan2008	10.0	88.4	98.4
15Jan2008	10.0	89.0	99.0
16Jan2008	10.0	89.7	99.7
17Jan2008	10.0	90.3	100.3
18Jan2008	10.0	91.0	101.0
19Jan2008	10.0	91.6	101.6
20Jan2008	10.0	92.3	102.3
21Jan2008	10.0	92.9	102.9
22Jan2008	10.0	93.5	103.5
23Jan2008	46.0	94.2	140.2
24Jan2008	1710.0	934.4	2644.4
25Jan2008	1200.0	655.7	1855.7
26Jan2008	322.0	175.9	497.9
27Jan2008	152.0	96.8	248.8
28Jan2008	791.0	432.2	1223.2
29Jan2008	831.0	454.1	1285.1
30Jan2008	170.0	98.7	268.7
31Jan2008	142.0	99.4	241.4
01Feb2008	85.0	100.0	185.0
02Feb2008	124.0	100.0	224.0
03Feb2008	120.0	100.0	220.0
04Feb2008	675.0	368.8	1043.8
05Feb2008	226.0	123.5	349.5
06Feb2008	116.0	100.0	216.0
07Feb2008	78.0	100.0	178.0
08Feb2008	57.0	100.0	157.0
09Feb2008	47.0	100.0	147.0
10Feb2008	41.0	100.0	141.0
11Feb2008	32.0	100.0	132.0
12Feb2008	30.0	100.0	130.0
13Feb2008	30.0	100.0	130.0
14Feb2008	30.0	100.0	130.0
15Feb2008	30.0	100.0	130.0
16Feb2008	30.0	100.0	130.0
17Feb2008	54.0	100.0	154.0
18Feb2008	125.0	100.0	225.0
19Feb2008	98.0	100.0	198.0
20Feb2008	107.0	100.0	207.0

21Feb2008	100.0	100.0	200.0
22Feb2008	90.0	100.0	190.0
23Feb2008	100.0	100.0	200.0
24Feb2008	126.0	100.0	226.0
25Feb2008	1000.0	546.4	1546.4
26Feb2008	666.0	363.9	1029.9
27Feb2008	241.0	131.7	372.7
28Feb2008	187.0	102.2	289.2
29Feb2008	163.0	100.0	263.0
01Mar2008	156.0	100.0	256.0
02Mar2008	142.0	100.0	242.0
03Mar2008	135.0	100.0	235.0
04Mar2008	67.0	100.0	167.0
05Mar2008	30.0	100.0	130.0
06Mar2008	30.0	100.0	130.0
07Mar2008	30.0	100.0	130.0
08Mar2008	30.0	100.0	130.0
09Mar2008	30.0	100.0	130.0
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12Mar2008	30.0	100.0	130.0
13Mar2008	30.0	100.0	130.0
14Mar2008	30.0	100.0	130.0
15Mar2008	30.0	100.0	130.0
16Mar2008	30.0	100.0	130.0
17Mar2008	30.0	100.0	130.0
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19Mar2008	30.0	100.0	130.0
20Mar2008	30.0	100.0	130.0
21Mar2008	30.0	100.0	130.0
22Mar2008	30.0	100.0	130.0
23Mar2008	30.0	100.0	130.0
24Mar2008	30.0	100.0	130.0
25Mar2008	30.0	100.0	130.0
26Mar2008	30.0	100.0	130.0
27Mar2008	30.0	100.0	130.0
28Mar2008	30.0	100.0	130.0
29Mar2008	30.0	100.0	130.0
30Mar2008	30.0	100.0	130.0
31Mar2008	30.0	100.0	130.0
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02Apr2008	40.0	99.0	139.0
03Apr2008	40.0	98.0	138.0
04Apr2008	40.0	97.0	137.0
05Apr2008	40.0	96.0	136.0
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07Apr2008	40.0	94.0	134.0
08Apr2008	40.0	93.0	133.0
09Apr2008	40.0	92.0	132.0
10Apr2008	40.0	91.0	131.0
11Apr2008	40.0	90.0	130.0
12Apr2008	40.0	89.0	129.0
13Apr2008	40.0	88.0	128.0
14Apr2008	40.0	87.0	127.0
15Apr2008	40.0	86.0	126.0
16Apr2008	40.0	85.0	125.0

17Apr2008	40.0	84.0	124.0
18Apr2008	40.0	83.0	123.0
19Apr2008	40.0	82.0	122.0
20Apr2008	40.0	81.0	121.0
21Apr2008	40.0	80.0	120.0
22Apr2008	40.0	79.0	119.0
23Apr2008	40.0	78.0	118.0
24Apr2008	40.0	77.0	117.0
25Apr2008	40.0	76.0	116.0
26Apr2008	40.0	75.0	115.0
27Apr2008	40.0	74.0	114.0
28Apr2008	40.0	73.0	113.0
29Apr2008	40.0	72.0	112.0
30Apr2008	40.0	71.0	111.0
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03May2008	45.0	70.0	115.0
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22May2008	45.0	70.0	115.0
23May2008	45.0	70.0	115.0
24May2008	45.0	70.0	115.0
25May2008	45.0	70.0	115.0
26May2008	45.0	70.0	115.0
27May2008	45.0	70.0	115.0
28May2008	45.0	70.0	115.0
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31May2008	45.0	70.0	115.0
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31Jul2008	55.0	70.0	125.0
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03Aug2008	70.0	70.0	140.0
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23Aug2008	70.0	70.0	140.0
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31Aug2008	70.0	70.0	140.0
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02Sep2008	65.0	70.3	135.3
03Sep2008	65.0	70.7	135.7
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05Sep2008	65.0	71.3	136.3
06Sep2008	65.0	71.7	136.7
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23Sep2008	65.0	77.3	142.3
24Sep2008	65.0	77.7	142.7
25Sep2008	65.0	78.0	143.0
26Sep2008	65.0	78.3	143.3
27Sep2008	65.0	78.7	143.7
28Sep2008	65.0	79.0	144.0
29Sep2008	65.0	79.3	144.3
30Sep2008	65.0	79.7	144.7
01Oct2008	30.0	80.0	110.0

02Oct2008	30.0	80.0	110.0
03Oct2008	30.0	80.0	110.0
04Oct2008	30.0	80.0	110.0
05Oct2008	30.0	80.0	110.0
06Oct2008	30.0	80.0	110.0
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22Oct2008	30.0	80.0	110.0
23Oct2008	30.0	80.0	110.0
24Oct2008	30.0	80.0	110.0
25Oct2008	30.0	80.0	110.0
26Oct2008	30.0	80.0	110.0
27Oct2008	30.0	80.0	110.0
28Oct2008	30.0	80.0	110.0
29Oct2008	30.0	80.0	110.0
30Oct2008	30.0	80.0	110.0
31Oct2008	30.0	80.0	110.0
01Nov2008	3.0	80.0	83.0
02Nov2008	3.0	80.0	83.0
03Nov2008	3.0	80.0	83.0
04Nov2008	3.0	80.0	83.0
05Nov2008	3.0	80.0	83.0
06Nov2008	3.0	80.0	83.0
07Nov2008	3.0	80.0	83.0
08Nov2008	3.0	80.0	83.0
09Nov2008	3.0	80.0	83.0
10Nov2008	3.0	80.0	83.0
11Nov2008	3.0	80.0	83.0
12Nov2008	3.0	80.0	83.0
13Nov2008	3.0	80.0	83.0
14Nov2008	3.0	80.0	83.0
15Nov2008	3.0	80.0	83.0
16Nov2008	3.0	80.0	83.0
17Nov2008	3.0	80.0	83.0
18Nov2008	3.0	80.0	83.0
19Nov2008	3.0	80.0	83.0
20Nov2008	3.0	80.0	83.0
21Nov2008	3.0	80.0	83.0
22Nov2008	3.0	80.0	83.0
23Nov2008	3.0	80.0	83.0
24Nov2008	3.0	80.0	83.0
25Nov2008	3.0	80.0	83.0
26Nov2008	3.0	80.0	83.0

27Nov2008	3.0	80.0	83.0
28Nov2008	3.0	80.0	83.0
29Nov2008	3.0	80.0	83.0
30Nov2008	3.0	80.0	83.0
01Dec2008	1.0	80.0	81.0
02Dec2008	1.0	80.0	81.0
03Dec2008	1.0	80.0	81.0
04Dec2008	1.0	80.0	81.0
05Dec2008	1.0	80.0	81.0
06Dec2008	1.0	80.0	81.0
07Dec2008	1.0	80.0	81.0
08Dec2008	1.0	80.0	81.0
09Dec2008	1.0	80.0	81.0
10Dec2008	1.0	80.0	81.0
11Dec2008	1.0	80.0	81.0
12Dec2008	1.0	80.0	81.0
13Dec2008	1.0	80.0	81.0
14Dec2008	1.0	80.0	81.0
15Dec2008	1.0	80.0	81.0
16Dec2008	1.0	80.0	81.0
17Dec2008	1.0	80.0	81.0
18Dec2008	1.0	80.0	81.0
19Dec2008	1.0	80.0	81.0
20Dec2008	1.0	80.0	81.0
21Dec2008	1.0	80.0	81.0
22Dec2008	1.0	80.0	81.0
23Dec2008	1.0	80.0	81.0
24Dec2008	1.0	80.0	81.0
25Dec2008	1.0	80.0	81.0
26Dec2008	1.0	80.0	81.0
27Dec2008	1.0	80.0	81.0
28Dec2008	1.0	80.0	81.0
29Dec2008	1.0	80.0	81.0
30Dec2008	1.0	80.0	81.0
31Dec2008	1.0	80.0	81.0
01Jan2009	10.0	80.0	90.0
02Jan2009	10.0	80.6	90.6
03Jan2009	10.0	81.3	91.3
04Jan2009	10.0	81.9	91.9
05Jan2009	10.0	82.6	92.6
06Jan2009	10.0	83.2	93.2
07Jan2009	10.0	83.9	93.9
08Jan2009	10.0	84.5	94.5
09Jan2009	10.0	85.2	95.2
10Jan2009	10.0	85.8	95.8
11Jan2009	10.0	86.5	96.5
12Jan2009	10.0	87.1	97.1
13Jan2009	10.0	87.7	97.7
14Jan2009	10.0	88.4	98.4
15Jan2009	10.0	89.0	99.0
16Jan2009	10.0	89.7	99.7
17Jan2009	10.0	90.3	100.3
18Jan2009	10.0	91.0	101.0
19Jan2009	10.0	91.6	101.6
20Jan2009	10.0	92.3	102.3
21Jan2009	10.0	92.9	102.9

22Jan2009	10.0	93.5	103.5
23Jan2009	10.0	94.2	104.2
24Jan2009	10.0	94.8	104.8
25Jan2009	10.0	95.5	105.5
26Jan2009	10.0	96.1	106.1
27Jan2009	10.0	96.8	106.8
28Jan2009	10.0	97.4	107.4
29Jan2009	10.0	98.1	108.1
30Jan2009	10.0	98.7	108.7
31Jan2009	10.0	99.4	109.4
01Feb2009	30.0	100.0	130.0
02Feb2009	30.0	100.0	130.0
03Feb2009	30.0	100.0	130.0
04Feb2009	30.0	100.0	130.0
05Feb2009	30.0	100.0	130.0
06Feb2009	30.0	100.0	130.0
07Feb2009	30.0	100.0	130.0
08Feb2009	30.0	100.0	130.0
09Feb2009	30.0	100.0	130.0
10Feb2009	30.0	100.0	130.0
11Feb2009	30.0	100.0	130.0
12Feb2009	30.0	100.0	130.0
13Feb2009	30.0	100.0	130.0
14Feb2009	30.0	100.0	130.0
15Feb2009	30.0	100.0	130.0
16Feb2009	30.0	100.0	130.0
17Feb2009	30.0	100.0	130.0
18Feb2009	30.0	100.0	130.0
19Feb2009	30.0	100.0	130.0
20Feb2009	30.0	100.0	130.0
21Feb2009	30.0	100.0	130.0
22Feb2009	30.0	100.0	130.0
23Feb2009	30.0	100.0	130.0
24Feb2009	30.0	100.0	130.0
25Feb2009	30.0	100.0	130.0
26Feb2009	30.0	100.0	130.0
27Feb2009	30.0	100.0	130.0
28Feb2009	30.0	100.0	130.0
01Mar2009	30.0	100.0	130.0
02Mar2009	30.0	100.0	130.0
03Mar2009	30.0	100.0	130.0
04Mar2009	382.0	208.7	590.7
05Mar2009	1180.0	644.8	1824.8
06Mar2009	170.0	100.0	270.0
07Mar2009	81.0	100.0	181.0
08Mar2009	50.0	100.0	150.0
09Mar2009	36.0	100.0	136.0
10Mar2009	30.0	100.0	130.0
11Mar2009	30.0	100.0	130.0
12Mar2009	30.0	100.0	130.0
13Mar2009	30.0	100.0	130.0
14Mar2009	30.0	100.0	130.0
15Mar2009	30.0	100.0	130.0
16Mar2009	30.0	100.0	130.0
17Mar2009	30.0	100.0	130.0
18Mar2009	30.0	100.0	130.0

19Mar2009	30.0	100.0	130.0
20Mar2009	30.0	100.0	130.0
21Mar2009	30.0	100.0	130.0
22Mar2009	30.0	100.0	130.0
23Mar2009	30.0	100.0	130.0
24Mar2009	30.0	100.0	130.0
25Mar2009	30.0	100.0	130.0
26Mar2009	30.0	100.0	130.0
27Mar2009	30.0	100.0	130.0
28Mar2009	30.0	100.0	130.0
29Mar2009	30.0	100.0	130.0
30Mar2009	30.0	100.0	130.0
31Mar2009	30.0	100.0	130.0
01Apr2009	40.0	100.0	140.0
02Apr2009	40.0	99.0	139.0
03Apr2009	40.0	98.0	138.0
04Apr2009	40.0	97.0	137.0
05Apr2009	40.0	96.0	136.0
06Apr2009	40.0	95.0	135.0
07Apr2009	40.0	94.0	134.0
08Apr2009	40.0	93.0	133.0
09Apr2009	40.0	92.0	132.0
10Apr2009	40.0	91.0	131.0
11Apr2009	40.0	90.0	130.0
12Apr2009	40.0	89.0	129.0
13Apr2009	40.0	88.0	128.0
14Apr2009	40.0	87.0	127.0
15Apr2009	40.0	86.0	126.0
16Apr2009	40.0	85.0	125.0
17Apr2009	40.0	84.0	124.0
18Apr2009	40.0	83.0	123.0
19Apr2009	40.0	82.0	122.0
20Apr2009	40.0	81.0	121.0
21Apr2009	40.0	80.0	120.0
22Apr2009	40.0	79.0	119.0
23Apr2009	40.0	78.0	118.0
24Apr2009	40.0	77.0	117.0
25Apr2009	40.0	76.0	116.0
26Apr2009	40.0	75.0	115.0
27Apr2009	40.0	74.0	114.0
28Apr2009	40.0	73.0	113.0
29Apr2009	40.0	72.0	112.0
30Apr2009	40.0	71.0	111.0
01May2009	45.0	70.0	115.0
02May2009	45.0	70.0	115.0
03May2009	45.0	70.0	115.0
04May2009	45.0	70.0	115.0
05May2009	45.0	70.0	115.0
06May2009	45.0	70.0	115.0
07May2009	45.0	70.0	115.0
08May2009	45.0	70.0	115.0
09May2009	45.0	70.0	115.0
10May2009	45.0	70.0	115.0
11May2009	45.0	70.0	115.0
12May2009	45.0	70.0	115.0
13May2009	45.0	70.0	115.0

14May2009	45.0	70.0	115.0
15May2009	45.0	70.0	115.0
16May2009	45.0	70.0	115.0
17May2009	45.0	70.0	115.0
18May2009	45.0	70.0	115.0
19May2009	45.0	70.0	115.0
20May2009	45.0	70.0	115.0
21May2009	45.0	70.0	115.0
22May2009	45.0	70.0	115.0
23May2009	45.0	70.0	115.0
24May2009	45.0	70.0	115.0
25May2009	45.0	70.0	115.0
26May2009	45.0	70.0	115.0
27May2009	45.0	70.0	115.0
28May2009	45.0	70.0	115.0
29May2009	45.0	70.0	115.0
30May2009	45.0	70.0	115.0
31May2009	45.0	70.0	115.0
01Jun2009	50.0	70.0	120.0
02Jun2009	50.0	70.0	120.0
03Jun2009	50.0	70.0	120.0
04Jun2009	50.0	70.0	120.0
05Jun2009	50.0	70.0	120.0
06Jun2009	50.0	70.0	120.0
07Jun2009	50.0	70.0	120.0
08Jun2009	50.0	70.0	120.0
09Jun2009	50.0	70.0	120.0
10Jun2009	50.0	70.0	120.0
11Jun2009	50.0	70.0	120.0
12Jun2009	50.0	70.0	120.0
13Jun2009	50.0	70.0	120.0
14Jun2009	50.0	70.0	120.0
15Jun2009	50.0	70.0	120.0
16Jun2009	50.0	70.0	120.0
17Jun2009	50.0	70.0	120.0
18Jun2009	50.0	70.0	120.0
19Jun2009	50.0	70.0	120.0
20Jun2009	50.0	70.0	120.0
21Jun2009	50.0	70.0	120.0
22Jun2009	50.0	70.0	120.0
23Jun2009	50.0	70.0	120.0
24Jun2009	50.0	70.0	120.0
25Jun2009	50.0	70.0	120.0
26Jun2009	50.0	70.0	120.0
27Jun2009	50.0	70.0	120.0
28Jun2009	50.0	70.0	120.0
29Jun2009	50.0	70.0	120.0
30Jun2009	50.0	70.0	120.0
01Jul2009	55.0	70.0	125.0
02Jul2009	55.0	70.0	125.0
03Jul2009	55.0	70.0	125.0
04Jul2009	55.0	70.0	125.0
05Jul2009	55.0	70.0	125.0
06Jul2009	55.0	70.0	125.0
07Jul2009	55.0	70.0	125.0
08Jul2009	55.0	70.0	125.0

09Jul2009	55.0	70.0	125.0
10Jul2009	55.0	70.0	125.0
11Jul2009	55.0	70.0	125.0
12Jul2009	55.0	70.0	125.0
13Jul2009	55.0	70.0	125.0
14Jul2009	55.0	70.0	125.0
15Jul2009	55.0	70.0	125.0
16Jul2009	55.0	70.0	125.0
17Jul2009	55.0	70.0	125.0
18Jul2009	55.0	70.0	125.0
19Jul2009	55.0	70.0	125.0
20Jul2009	55.0	70.0	125.0
21Jul2009	55.0	70.0	125.0
22Jul2009	55.0	70.0	125.0
23Jul2009	55.0	70.0	125.0
24Jul2009	55.0	70.0	125.0
25Jul2009	55.0	70.0	125.0
26Jul2009	55.0	70.0	125.0
27Jul2009	55.0	70.0	125.0
28Jul2009	55.0	70.0	125.0
29Jul2009	55.0	70.0	125.0
30Jul2009	55.0	70.0	125.0
31Jul2009	55.0	70.0	125.0
01Aug2009	70.0	70.0	140.0
02Aug2009	70.0	70.0	140.0
03Aug2009	70.0	70.0	140.0
04Aug2009	70.0	70.0	140.0
05Aug2009	70.0	70.0	140.0
06Aug2009	70.0	70.0	140.0
07Aug2009	70.0	70.0	140.0
08Aug2009	70.0	70.0	140.0
09Aug2009	70.0	70.0	140.0
10Aug2009	70.0	70.0	140.0
11Aug2009	70.0	70.0	140.0
12Aug2009	70.0	70.0	140.0
13Aug2009	70.0	70.0	140.0
14Aug2009	70.0	70.0	140.0
15Aug2009	70.0	70.0	140.0
16Aug2009	70.0	70.0	140.0
17Aug2009	70.0	70.0	140.0
18Aug2009	70.0	70.0	140.0
19Aug2009	70.0	70.0	140.0
20Aug2009	70.0	70.0	140.0
21Aug2009	70.0	70.0	140.0
22Aug2009	70.0	70.0	140.0
23Aug2009	70.0	70.0	140.0
24Aug2009	70.0	70.0	140.0
25Aug2009	70.0	70.0	140.0
26Aug2009	70.0	70.0	140.0
27Aug2009	70.0	70.0	140.0
28Aug2009	70.0	70.0	140.0
29Aug2009	70.0	70.0	140.0
30Aug2009	70.0	70.0	140.0
31Aug2009	70.0	70.0	140.0
01Sep2009	65.0	70.0	135.0
02Sep2009	65.0	70.3	135.3

03Sep2009	65.0	70.7	135.7
04Sep2009	65.0	71.0	136.0
05Sep2009	65.0	71.3	136.3
06Sep2009	65.0	71.7	136.7
07Sep2009	65.0	72.0	137.0
08Sep2009	65.0	72.3	137.3
09Sep2009	65.0	72.7	137.7
10Sep2009	65.0	73.0	138.0
11Sep2009	65.0	73.3	138.3
12Sep2009	65.0	73.7	138.7
13Sep2009	65.0	74.0	139.0
14Sep2009	65.0	74.3	139.3
15Sep2009	65.0	74.7	139.7
16Sep2009	65.0	75.0	140.0
17Sep2009	65.0	75.3	140.3
18Sep2009	65.0	75.7	140.7
19Sep2009	65.0	76.0	141.0
20Sep2009	65.0	76.3	141.3
21Sep2009	65.0	76.7	141.7
22Sep2009	65.0	77.0	142.0
23Sep2009	65.0	77.3	142.3
24Sep2009	65.0	77.7	142.7
25Sep2009	65.0	78.0	143.0
26Sep2009	65.0	78.3	143.3
27Sep2009	65.0	78.7	143.7
28Sep2009	65.0	79.0	144.0
29Sep2009	65.0	79.3	144.3
30Sep2009	65.0	79.7	144.7
01Oct2009	30.0	80.0	110.0
02Oct2009	30.0	80.0	110.0
03Oct2009	30.0	80.0	110.0
04Oct2009	30.0	80.0	110.0
05Oct2009	30.0	80.0	110.0
06Oct2009	30.0	80.0	110.0
07Oct2009	30.0	80.0	110.0
08Oct2009	30.0	80.0	110.0
09Oct2009	30.0	80.0	110.0
10Oct2009	30.0	80.0	110.0
11Oct2009	30.0	80.0	110.0
12Oct2009	30.0	80.0	110.0
13Oct2009	30.0	80.0	110.0
14Oct2009	30.0	80.0	110.0
15Oct2009	30.0	80.0	110.0
16Oct2009	30.0	80.0	110.0
17Oct2009	30.0	80.0	110.0
18Oct2009	30.0	80.0	110.0
19Oct2009	30.0	80.0	110.0
20Oct2009	30.0	80.0	110.0
21Oct2009	30.0	80.0	110.0
22Oct2009	30.0	80.0	110.0
23Oct2009	30.0	80.0	110.0
24Oct2009	30.0	80.0	110.0
25Oct2009	30.0	80.0	110.0
26Oct2009	30.0	80.0	110.0
27Oct2009	30.0	80.0	110.0
28Oct2009	30.0	80.0	110.0

29Oct2009	30.0	80.0	110.0
30Oct2009	30.0	80.0	110.0
31Oct2009	30.0	80.0	110.0
01Nov2009	3.0	80.0	83.0
02Nov2009	3.0	80.0	83.0
03Nov2009	3.0	80.0	83.0
04Nov2009	3.0	80.0	83.0
05Nov2009	3.0	80.0	83.0
06Nov2009	3.0	80.0	83.0
07Nov2009	3.0	80.0	83.0
08Nov2009	3.0	80.0	83.0
09Nov2009	3.0	80.0	83.0
10Nov2009	3.0	80.0	83.0
11Nov2009	3.0	80.0	83.0
12Nov2009	3.0	80.0	83.0
13Nov2009	3.0	80.0	83.0
14Nov2009	3.0	80.0	83.0
15Nov2009	3.0	80.0	83.0
16Nov2009	3.0	80.0	83.0
17Nov2009	3.0	80.0	83.0
18Nov2009	3.0	80.0	83.0
19Nov2009	3.0	80.0	83.0
20Nov2009	3.0	80.0	83.0
21Nov2009	3.0	80.0	83.0
22Nov2009	3.0	80.0	83.0
23Nov2009	3.0	80.0	83.0
24Nov2009	3.0	80.0	83.0
25Nov2009	3.0	80.0	83.0
26Nov2009	3.0	80.0	83.0
27Nov2009	3.0	80.0	83.0
28Nov2009	3.0	80.0	83.0
29Nov2009	3.0	80.0	83.0
30Nov2009	3.0	80.0	83.0
01Dec2009	1.0	80.0	81.0
02Dec2009	1.0	80.0	81.0
03Dec2009	1.0	80.0	81.0
04Dec2009	1.0	80.0	81.0
05Dec2009	1.0	80.0	81.0
06Dec2009	1.0	80.0	81.0
07Dec2009	1.0	80.0	81.0
08Dec2009	1.0	80.0	81.0
09Dec2009	1.0	80.0	81.0
10Dec2009	1.0	80.0	81.0
11Dec2009	1.0	80.0	81.0
12Dec2009	1.0	80.0	81.0
13Dec2009	1.0	80.0	81.0
14Dec2009	1.0	80.0	81.0
15Dec2009	1.0	80.0	81.0
16Dec2009	1.0	80.0	81.0
17Dec2009	1.0	80.0	81.0
18Dec2009	1.0	80.0	81.0
19Dec2009	1.0	80.0	81.0
20Dec2009	1.0	80.0	81.0
21Dec2009	1.0	80.0	81.0
22Dec2009	1.0	80.0	81.0
23Dec2009	1.0	80.0	81.0

24Dec2009	1.0	80.0	81.0
25Dec2009	1.0	80.0	81.0
26Dec2009	1.0	80.0	81.0
27Dec2009	1.0	80.0	81.0
28Dec2009	1.0	80.0	81.0
29Dec2009	1.0	80.0	81.0
30Dec2009	1.0	80.0	81.0
31Dec2009	1.0	80.0	81.0
01Jan2010	10.0	80.0	90.0
02Jan2010	10.0	80.6	90.6
03Jan2010	10.0	81.3	91.3
04Jan2010	10.0	81.9	91.9
05Jan2010	10.0	82.6	92.6
06Jan2010	10.0	83.2	93.2
07Jan2010	10.0	83.9	93.9
08Jan2010	10.0	84.5	94.5
09Jan2010	10.0	85.2	95.2
10Jan2010	10.0	85.8	95.8
11Jan2010	10.0	86.5	96.5
12Jan2010	10.0	87.1	97.1
13Jan2010	10.0	87.7	97.7
14Jan2010	10.0	88.4	98.4
15Jan2010	10.0	89.0	99.0
16Jan2010	10.0	89.7	99.7
17Jan2010	10.0	90.3	100.3
18Jan2010	10.0	91.0	101.0
19Jan2010	10.0	91.6	101.6
20Jan2010	10.0	92.3	102.3
21Jan2010	502.0	274.3	776.3
22Jan2010	526.0	287.4	813.4
23Jan2010	749.0	409.3	1158.3
24Jan2010	332.0	181.4	513.4
25Jan2010	115.0	95.5	210.5
26Jan2010	64.0	96.1	160.1
27Jan2010	46.0	96.8	142.8
28Jan2010	37.0	97.4	134.4
29Jan2010	10.0	98.1	108.1
30Jan2010	10.0	98.7	108.7
31Jan2010	10.0	99.4	109.4
01Feb2010	30.0	100.0	130.0
02Feb2010	30.0	100.0	130.0
03Feb2010	30.0	100.0	130.0
04Feb2010	30.0	100.0	130.0
05Feb2010	30.0	100.0	130.0
06Feb2010	30.0	100.0	130.0
07Feb2010	30.0	100.0	130.0
08Feb2010	492.0	268.8	760.8
09Feb2010	141.0	100.0	241.0
10Feb2010	133.0	100.0	233.0
11Feb2010	137.0	100.0	237.0
12Feb2010	73.0	100.0	173.0
13Feb2010	50.0	100.0	150.0
14Feb2010	36.0	100.0	136.0
15Feb2010	30.0	100.0	130.0
16Feb2010	30.0	100.0	130.0
17Feb2010	30.0	100.0	130.0

18Feb2010	30.0	100.0	130.0
19Feb2010	30.0	100.0	130.0
20Feb2010	30.0	100.0	130.0
21Feb2010	30.0	100.0	130.0
22Feb2010	30.0	100.0	130.0
23Feb2010	30.0	100.0	130.0
24Feb2010	54.0	100.0	154.0
25Feb2010	1110.0	606.5	1716.5
26Feb2010	310.0	169.4	479.4
27Feb2010	253.0	138.2	391.2
28Feb2010	1200.0	655.7	1855.7
01Mar2010	261.0	142.6	403.6
02Mar2010	143.0	100.0	243.0
03Mar2010	140.0	100.0	240.0
04Mar2010	1160.0	633.8	1793.8
05Mar2010	900.0	491.8	1391.8
06Mar2010	220.0	120.2	340.2
07Mar2010	141.0	100.0	241.0
08Mar2010	111.0	100.0	211.0
09Mar2010	87.0	100.0	187.0
10Mar2010	74.0	100.0	174.0
11Mar2010	62.0	100.0	162.0
12Mar2010	55.0	100.0	155.0
13Mar2010	49.0	100.0	149.0
14Mar2010	109.0	100.0	209.0
15Mar2010	94.0	100.0	194.0
16Mar2010	63.0	100.0	163.0
17Mar2010	53.0	100.0	153.0
18Mar2010	41.0	100.0	141.0
19Mar2010	32.0	100.0	132.0
20Mar2010	30.0	100.0	130.0
21Mar2010	30.0	100.0	130.0
22Mar2010	30.0	100.0	130.0
23Mar2010	30.0	100.0	130.0
24Mar2010	30.0	100.0	130.0
25Mar2010	30.0	100.0	130.0
26Mar2010	30.0	100.0	130.0
27Mar2010	30.0	100.0	130.0
28Mar2010	30.0	100.0	130.0
29Mar2010	30.0	100.0	130.0
30Mar2010	30.0	100.0	130.0
31Mar2010	30.0	100.0	130.0
01Apr2010	40.0	100.0	140.0
02Apr2010	40.0	99.0	139.0
03Apr2010	40.0	98.0	138.0
04Apr2010	40.0	97.0	137.0
05Apr2010	40.0	96.0	136.0
06Apr2010	40.0	95.0	135.0
07Apr2010	40.0	94.0	134.0
08Apr2010	40.0	93.0	133.0
09Apr2010	40.0	92.0	132.0
10Apr2010	40.0	91.0	131.0
11Apr2010	40.0	90.0	130.0
12Apr2010	40.0	89.0	129.0
13Apr2010	40.0	88.0	128.0
14Apr2010	40.0	87.0	127.0

15Apr2010	40.0	86.0	126.0
16Apr2010	40.0	85.0	125.0
17Apr2010	40.0	84.0	124.0
18Apr2010	40.0	83.0	123.0
19Apr2010	40.0	82.0	122.0
20Apr2010	40.0	81.0	121.0
21Apr2010	40.0	80.0	120.0
22Apr2010	40.0	79.0	119.0
23Apr2010	40.0	78.0	118.0
24Apr2010	40.0	77.0	117.0
25Apr2010	40.0	76.0	116.0
26Apr2010	40.0	75.0	115.0
27Apr2010	40.0	74.0	114.0
28Apr2010	40.0	73.0	113.0
29Apr2010	40.0	72.0	112.0
30Apr2010	40.0	71.0	111.0
01May2010	45.0	70.0	115.0
02May2010	45.0	70.0	115.0
03May2010	45.0	70.0	115.0
04May2010	45.0	70.0	115.0
05May2010	45.0	70.0	115.0
06May2010	45.0	70.0	115.0
07May2010	45.0	70.0	115.0
08May2010	45.0	70.0	115.0
09May2010	45.0	70.0	115.0
10May2010	45.0	70.0	115.0
11May2010	45.0	70.0	115.0
12May2010	45.0	70.0	115.0
13May2010	45.0	70.0	115.0
14May2010	45.0	70.0	115.0
15May2010	45.0	70.0	115.0
16May2010	45.0	70.0	115.0
17May2010	45.0	70.0	115.0
18May2010	45.0	70.0	115.0
19May2010	45.0	70.0	115.0
20May2010	45.0	70.0	115.0
21May2010	45.0	70.0	115.0
22May2010	45.0	70.0	115.0
23May2010	45.0	70.0	115.0
24May2010	45.0	70.0	115.0
25May2010	45.0	70.0	115.0
26May2010	45.0	70.0	115.0
27May2010	45.0	70.0	115.0
28May2010	45.0	70.0	115.0
29May2010	45.0	70.0	115.0
30May2010	45.0	70.0	115.0
31May2010	45.0	70.0	115.0
01Jun2010	50.0	70.0	120.0
02Jun2010	50.0	70.0	120.0
03Jun2010	50.0	70.0	120.0
04Jun2010	50.0	70.0	120.0
05Jun2010	50.0	70.0	120.0
06Jun2010	50.0	70.0	120.0
07Jun2010	50.0	70.0	120.0
08Jun2010	50.0	70.0	120.0
09Jun2010	50.0	70.0	120.0

10Jun2010	50.0	70.0	120.0
11Jun2010	50.0	70.0	120.0
12Jun2010	50.0	70.0	120.0
13Jun2010	50.0	70.0	120.0
14Jun2010	50.0	70.0	120.0
15Jun2010	50.0	70.0	120.0
16Jun2010	50.0	70.0	120.0
17Jun2010	50.0	70.0	120.0
18Jun2010	50.0	70.0	120.0
19Jun2010	50.0	70.0	120.0
20Jun2010	50.0	70.0	120.0
21Jun2010	50.0	70.0	120.0
22Jun2010	50.0	70.0	120.0
23Jun2010	50.0	70.0	120.0
24Jun2010	50.0	70.0	120.0
25Jun2010	50.0	70.0	120.0
26Jun2010	50.0	70.0	120.0
27Jun2010	50.0	70.0	120.0
28Jun2010	50.0	70.0	120.0
29Jun2010	50.0	70.0	120.0
30Jun2010	50.0	70.0	120.0
01Jul2010	55.0	70.0	125.0
02Jul2010	55.0	70.0	125.0
03Jul2010	55.0	70.0	125.0
04Jul2010	55.0	70.0	125.0
05Jul2010	55.0	70.0	125.0
06Jul2010	55.0	70.0	125.0
07Jul2010	55.0	70.0	125.0
08Jul2010	55.0	70.0	125.0
09Jul2010	55.0	70.0	125.0
10Jul2010	55.0	70.0	125.0
11Jul2010	55.0	70.0	125.0
12Jul2010	55.0	70.0	125.0
13Jul2010	55.0	70.0	125.0
14Jul2010	55.0	70.0	125.0
15Jul2010	55.0	70.0	125.0
16Jul2010	55.0	70.0	125.0
17Jul2010	55.0	70.0	125.0
18Jul2010	55.0	70.0	125.0
19Jul2010	55.0	70.0	125.0
20Jul2010	55.0	70.0	125.0
21Jul2010	55.0	70.0	125.0
22Jul2010	55.0	70.0	125.0
23Jul2010	55.0	70.0	125.0
24Jul2010	55.0	70.0	125.0
25Jul2010	55.0	70.0	125.0
26Jul2010	55.0	70.0	125.0
27Jul2010	55.0	70.0	125.0
28Jul2010	55.0	70.0	125.0
29Jul2010	55.0	70.0	125.0
30Jul2010	55.0	70.0	125.0
31Jul2010	55.0	70.0	125.0
01Aug2010	70.0	70.0	140.0
02Aug2010	70.0	70.0	140.0
03Aug2010	70.0	70.0	140.0
04Aug2010	70.0	70.0	140.0

05Aug2010	70.0	70.0	140.0
06Aug2010	70.0	70.0	140.0
07Aug2010	70.0	70.0	140.0
08Aug2010	70.0	70.0	140.0
09Aug2010	70.0	70.0	140.0
10Aug2010	70.0	70.0	140.0
11Aug2010	70.0	70.0	140.0
12Aug2010	70.0	70.0	140.0
13Aug2010	70.0	70.0	140.0
14Aug2010	70.0	70.0	140.0
15Aug2010	70.0	70.0	140.0
16Aug2010	70.0	70.0	140.0
17Aug2010	70.0	70.0	140.0
18Aug2010	70.0	70.0	140.0
19Aug2010	70.0	70.0	140.0
20Aug2010	70.0	70.0	140.0
21Aug2010	70.0	70.0	140.0
22Aug2010	70.0	70.0	140.0
23Aug2010	70.0	70.0	140.0
24Aug2010	70.0	70.0	140.0
25Aug2010	70.0	70.0	140.0
26Aug2010	70.0	70.0	140.0
27Aug2010	70.0	70.0	140.0
28Aug2010	70.0	70.0	140.0
29Aug2010	70.0	70.0	140.0
30Aug2010	70.0	70.0	140.0
31Aug2010	70.0	70.0	140.0
01Sep2010	65.0	70.0	135.0
02Sep2010	65.0	70.3	135.3
03Sep2010	65.0	70.7	135.7
04Sep2010	65.0	71.0	136.0
05Sep2010	65.0	71.3	136.3
06Sep2010	65.0	71.7	136.7
07Sep2010	65.0	72.0	137.0
08Sep2010	65.0	72.3	137.3
09Sep2010	65.0	72.7	137.7
10Sep2010	65.0	73.0	138.0
11Sep2010	65.0	73.3	138.3
12Sep2010	65.0	73.7	138.7
13Sep2010	65.0	74.0	139.0
14Sep2010	65.0	74.3	139.3
15Sep2010	65.0	74.7	139.7
16Sep2010	65.0	75.0	140.0
17Sep2010	65.0	75.3	140.3
18Sep2010	65.0	75.7	140.7
19Sep2010	65.0	76.0	141.0
20Sep2010	65.0	76.3	141.3
21Sep2010	65.0	76.7	141.7
22Sep2010	65.0	77.0	142.0
23Sep2010	65.0	77.3	142.3
24Sep2010	65.0	77.7	142.7
25Sep2010	65.0	78.0	143.0
26Sep2010	65.0	78.3	143.3
27Sep2010	65.0	78.7	143.7
28Sep2010	65.0	79.0	144.0
29Sep2010	65.0	79.3	144.3

30Sep2010

65.0

79.7

144.7

March 19, 2013
Electronic Filing

Don Pedro Project
FERC No. 2299-075

Honorable Kimberly D Bose, Secretary
Federal Energy Regulatory Commission
Mail Code DHAC PJ-12.3
888 First Street NE
Washington DC 20426

RE: Turlock Irrigation District and Modesto Irrigation District
Don Pedro Project - FERC Project No. 2299
Final Meeting Notes, Comments, and Districts' Reply Comments for
W&AR-02 Consultation Workshop No. 2 held on September 21, 2012
Final W&AR-02 Accretion Flow Measurements for June 2012, October 2012,
And February 2013

Dear Secretary Bose:

On behalf of Turlock Irrigation District and Modesto Irrigation District (collectively, the "Districts"), co-licensees of the Don Pedro Project, HDR is filing meeting notes, relicensing participants' comments, and the Districts' reply comments for the Tuolumne River Operations Model (Study W&AR-02) Consultation Workshop No. 2 held on September 21, 2012.

Also contained in this filing are the results of the three field measurements of accretion flows conducted as part of and in accordance with Study Plan W&AR-02 and the September 21, 2012 Workshop with relicensing participants.

Sincerely,



John J Devine, P.E.
Project Manager

JJD/rms

Attachments:

1. Final Meeting Notes
2. SWRCB Request for Additional Time to Submit Comments
3. SWRCB Comments
4. Districts' Response to SWRCB Comments
5. Field Measurements of Accretion Flows conducted June 25/26, 2012; October 03/04, 2012; and February 11/12, 2013

ATTACHMENTS

Attachment 1: Final Meeting Notes

FINAL Meeting Notes

Attachment A: Data Table for the Don Pedro Project

Attachment B: La Grange Reservoir Headwater Duration Curve

DRAFT Meeting Notes

Meeting Materials & Handouts

Meeting Agenda

Map of the Tuolumne River from Don Pedro Reservoir to the San Joaquin River

Accretion/Depletion Measurement Locations Memo (June 6, 2012)

June 25 Flow Measurements Summary (Posted July 26, 2012)

Lower Tuolumne River Summer & Winter Flow Trends Plots for WYs 2007-2011

Lower Tuolumne Gage Calculation Plots for WYs 2001-2010

PowerPoint Presentation Used During the Meeting

Final Meeting Minutes

**Don Pedro Project Relicensing
Hydrologic Investigations Workshop
Final Meeting Notes**

**Friday, September 21, 2012
9:00 a.m. to 1:00 p.m.**

Attendees

John Devine (HDR)	Zac Jackson (USFWS)
Jenna Borovansky (HDR)	Bob Hughes (DFG)
Jenn Gagnon (HDR)	Art Godwin (TID)
Bob Hackamack	Bob Nees (TID)
John Buckley (CSERC)	Steve Boyd (TID)
Chris Shutes (CSPA)	Bill Johnston (MID)
Patrick Koepele (TRT)	Bill Paris (MID)
Ramon Martin (USFWS)	Joy Warren (MID)
Peter Barnes (SWRCB)	Greg Dias (MID)

Attended via phone:

Annie Manji (CFG)	Annee Ferranti (CDFG)
Bill Sears (CCSF)	Donn Furman (CCSF)
Russ Liebig (Stillwater Sciences)	John Wooster (NMFS)
Jim Fargo (FERC)	Gretchen Murphey (CDFG)
Jim Alves (City of Modesto)	Ellen Levin (CCSF)
Tim Findley (Bay Area)	Richard Roos-Collins –online (part of time)
Tim Heyne (CDFG) – online (part of time)	

Purpose of Meeting

The Hydrologic Investigations Workshop was held to discuss with the Don Pedro Relicensing Participants the following items:

- 1) Review of accretion flow measurements conducted on June 25, 2012 (results provided to Relicensing Participants July 26, 2012)
- 2) Path forward related to additional accretion flow measurements
- 3) Hydrologic analysis the Districts are planning in accordance with FERC's Study Plan Determination and Dispute Resolution
- 4) Available Streamflow Data Records/Sources confirmed by the Districts

Meeting Materials

Materials provided to Relicensing Participants to support the meeting discussion:

- Meeting Agenda
- Map of the Tuolumne River from Don Pedro Reservoir to the San Joaquin River
- Accretion/Depletion Measurement Locations Memo (Posted June 6, 2012)
- June 25 Flow Measurements Summary (Posted July 26, 2012)
- Lower Tuolumne River summer and winter flow trend plots for Water Years 2007 – 2011
- Lower Tuolumne Gage Calculation plots for Water Years 2001-2010

Meeting Notes

The purpose of the accretion flow measurements and the gage trend plots (discussed below) are to investigate where changes in flow occur in the lower Tuolumne River between La Grange and Modesto, quantify the flow change, and begin to identify potential locations for flow nodes in the Project Operations Model.

Accretion Flow Measurements Discussion

Mr. Devine summarized the results of the June 25, 2012 field measurements:

- Study methods are described in the June 6 memo to relicensing participants. Efforts were made by the Districts to keep operational outflows to a minimum so measurements would reflect only accretions due to groundwater inflows.
- Accretion measurements map and table were discussed, walking through each measurement location.
- USGS conducted flow measurements at the USGS' La Grange gage the day before accretion field measurements, USGS decided a shift change was necessary based on the USGS gage measurements. Therefore, the USGS gage data reported in the table reflect this shift change.
- The June 25, 2012 field accretion flow measurements used the same flow measurement standards as the USGS.
 - The flow measurements have good consistency for measurements from cross section to cross section
 - The same team was used to conduct the measurements on the same day, with a systematic approach
 - Some difference between gage records and field measurements can be expected. USGS gage records are daily while the field measurements are instantaneous
 - The far right column in data table of accretion measurements compares the measured flows to the recorded gage readings
- It was agreed that additional field measurements would provide useful information; the June measurements are illustrative of conditions and were used to discuss additional measurement locations and information needs with relicensing participants.
- Based on a SWRCB April 1989 report, there are few identified pumping withdrawal points within the lower Tuolumne River reach. Depletions due to irrigation pumping do not appear to play a role in the area where the field measurements were taken.
- Participants reviewed measurements throughout the river and discussed the available data and potential influences on river flows in the reaches where changes in flow were observed.
- Mr. Devine summarized the information gained from the accretion measurements:
 - The lower Tuolumne River is an accreting river

- The data are showing zones of accretion which appear consistent with potential groundwater source areas (cross-referenced the USGS Scientific Investigations Report 2004-5232 entitled *Hydrogeologic Characterization of the Modesto Area*)
- After review of the June measurements and discussion with relicensing participants, the Districts agreed to perform accretion measurements (to be collected in early October) at the following locations:
 - All locations sampled during June 2012 will be revisited
 - Somewhere between RM 46 and 49: to target potential depletion/recharge area, final location to be based on accessibility
 - *Mr. Koepke to provide document indicating potential groundwater influence to assist in choosing location*
 - Somewhere between RM 25 and 26: to provide additional information on conditions between RM 30.5 and RM 17 stations
 - Approximately RM 10: to provide additional information on conditions between the gage at RM 16 and RM 3.7 station
 - Dry Creek gage (field measurement to check accuracy of gage)
 - Approximately RM 2 on Dry Creek
- If conditions allow, the Districts will target measurements during a dry period in January-February 2013.

Additional information requested by relicensing participants during discussion of accretion measurements is summarized in the action items at the end of these notes.

Flow Trend Plots

Mr. Devine reviewed preliminary information regarding available gage data, and potential methods of estimating annual flow inputs at locations where relicensing participants have requested modeling nodes, but where gages do not exist to provide long term records. This preliminary information and how it could be used was discussed with relicensing participants.

The Districts will provide a background technical memo to explain the flow plots discussed during the meeting. The purpose of the Lower Tuolumne accretion flow estimates and Dry Creek gage synthesis is to attempt to address the Relicensing Participants' questions of where flow nodes could be located in the Project Operations Model, and whether the Dry Creek information can be useful. Information contained in the plots includes:

- The plots demonstrate that during dry periods there appears to be a seasonal pattern of consistent base flow.
- Components of the Dry Creek synthetic gage estimates are base flow, supported by groundwater accretions, and a natural flow component.
- The mathematical difference between the Modesto gage and the sum of the Dry Creek and La Grange gages was reviewed to begin to identify accretion flows in the lower Tuolumne River. These data demonstrate that this approach does not provide a reasonably consistent estimate of accretion flows.

- The data were further investigated using two Gaussian-smoothing functions and then reviewed for monthly trends of base flow component; the “smoothed” plots appear to indicate seasonal components to flow.
- The field accretion measurements are being collected to try to come to a common understanding of the lower Tuolumne River where there are no established gages and provide additional information to supplement flow trends analysis. The approach is to use the combination of the field measurements and the gage synthesis to develop a reasonable representation of accretion flows to the lower Tuolumne River.

The “smoothed” plots are a way to develop flow quantities and locations on the Tuolumne River between La Grange and Modesto. The flow measurements, taken at locations where there are no established gages, are a way to identify where specific zones of accretion flows are occurring.

In past comments, relicensing participants have expressed interest in identifying operation model node locations at Roberts Ferry Bridge, above Dry Creek, Shiloh, and the infiltration gallery. To be meaningful in the model, the nodes must be located to reflect change in hydrology. Accretion measurements provide an idea of where the change in flow is occurring. Future October and January measurements will provide opportunity to observe patterns (consistent base flow, seasonal trends). The data sources available are gage records and these accretion measurements.

The trend plots are not the only way to estimate the necessary information. Relicensing participants were asked to provide additional ideas on methods by which the desired information for the additional modeling nodes may be derived. Mr. Devine emphasized that the information was being shared in preliminary form in order to share the status of information development and gather feedback. The districts emphasized that they would welcome other ideas to addressing this issue.

Hydrologic Analysis Previously Requested by Relicensing Participants

The goal of this agenda item was to review prior data requests from relicensing participants, as summarized on the agenda, and to develop a common understanding of the exact analyses to be conducted.

Available Data

A table of all available data sources was posted to the relicensing website, and is attached to these meeting notes. (***(Response: See Attachment A to these Meeting Notes)***)

Additional discussion on streamflow data:

- For La Grange gage location -- Districts have 15-minute stage data, will contact USGS for 15-minute flow data or use gage rating to calculate flow if unavailable.
- The Districts have hourly La Grange powerhouse release data.
- The Districts were requested to provide general description of the range of operation of the La Grange pool; Districts will provide the La Grange pool headwater duration curve. (***(Response: See Attachment B to these Meeting Notes)***)

Statistical analysis to be conducted for existing project conditions

The agenda summarized the statistical analysis to be conducted:

- a) Average, maximum and minimum monthly flows for 1971- 2009, 1996-2009, and by water year type
- b) Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type
- c) Average annual flows for 1971-2009 and 1996-2009
- d) 1-3, and 7-day maximum mean daily flow for each year of 1971-2009
- e) 1-3, and 7-day minimum mean daily flows for each year of 1971-2009
- f) Julian date and magnitude of annual maximum and minimum

Discussion and confirmation of the above analyses are summarized below:

- Relicensing Participants agreed that the two time periods (1971-2009 and 1996-2009) were sufficient, but that analysis should be extended to 2011.
- The average annual flows for the two time periods are available in the PAD.
 - When the operations models are run, the output will include this data
- It was acknowledged that the Districts may not have full 100 points for exceedance when different time periods are run.
- Relicensing participants agreed on a moving average (for 1, 3, 7 day max/min mean daily flows 1971-2011).
 - The moving values will be averaged, and the analysis will report max/min/ mean daily flow value of the mean daily flows for each year
 - Relicensing participants requested data output as exceedance plots instead of time series

Watershed locations for statistical analysis

The agenda summarized the statistical analysis to be conducted:

- a) Tuolumne River, inflow to Don Pedro Reservoir
- b) Tuolumne River just above La Grange Dam
- c) Turlock Canal near La Grange CA (USGS gage)
- d) Modesto Canal near La Grange CA (USGS gage)
- e) Tuolumne River below La Grange Dam near La Grange CA (USGS gage)
- f) Dry Creek at Modesto (CDWR gage)
- g) Tuolumne River at Modesto CA (USGS gage)

Discussion and confirmation of the above locations are summarized below:

- Relicensing participants agreed with the identified locations.
- For the inflow to Don Pedro Reservoir, relicensing participants requested that it be reported as regulated and unregulated inflow. It was explained that in the operations model, Don Pedro inflows are divided into the two actual components (a regulated portion from CCSF facilities and an unregulated component).
- In the previous hydrology discussions, the Districts provided a schematic of the CCSF and Districts facilities; relicensing participants requested information on which elements of the schematic would be provided in the operations model. The October meeting on WAR-2 will

include this discussion. The model combines the outflows from O'Shaughnessey and outflows from Eleanor/Cherry into a single node; model users can adjust value of flow at this node.

Other hydrologic analyses to be conducted needing further clarification

Mr. Devine requested discussion and clarification from relicensing participants regarding the following analyses requested by the National Marine Fisheries Service, and summarized on the agenda as:

- Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California.
- Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records.

Discussion and confirmation of the requested information is summarized below:

Peak flow analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations using USGS Regional skew for California. The data processing clarifications at the meeting are summarized below:

- The outflow of La Grange diversion dam is recorded at the La Grange gage.
- The Relicensing Participants want log-Pearson type III flood flow analysis based on both USGS Regional skew and USGS analysis to bump daily measurements. (*Mr. Wooster to provide the 2011 Report referenced regarding USGS analysis to bump daily to instantaneous – this has been provided.*)

Rate of Stage Change analysis using the Tuolumne River below La Grange Dam near La Grange gage for 1971-2009 using 15-minute gage records. Discussion included the following clarifications:

- Request based on desire for results to provide relicensing participants an indication of how quickly flow changes occur.
- The Districts use Real-time USGS data currently to ensure flow change rate compliance per the FERC license.
- Relicensing Participants questioned whether the existing condition in License Article 38 rate of stage change component could be analyzed. Districts did not believe it could be analyzed, but will reevaluate this.
- Article 38: fluctuation in stage to daily period (45 day, November 5 – December 20) spawning issue; stage change is limited.
- Mr. Wooster has 4 years of La Grange gage stage data, will run analysis and identify desired tabular ranges (“bins”) for these analyses.
 - Tabular measure of stage change – bins will be picked for histogram depending on the range of population (suggested initial 10-15 bins).
 - Rolling hour, 15-minute increments is preferred.

- A monthly basis analysis is of most importance, but an additional plot for annual will be included.

La Grange project data analysis (regarding the flow through the different conduits, per Relicensing Participants request Element 2 in Study Plan Request)

- There is not enough data to split flow to various conduits (no records on Modesto or long term records on TID gates).
 - Districts will supply hourly flow data records for the powerhouse and flow in MID and TID canals and gage data downstream of La Grange Dam to satisfy this request; relicensing participants agreed since data is not available

Additional Items

Mr. Hughes noted for the record that CDFG's participation in the meeting does not change positions expressed in comments recently filed with the SWRB regarding the methods used to calculate unimpaired inflow to Don Pedro.

Relicensing participants requested that the Districts provide an update on the schedule for completion of the lower Tuolumne River instream flow study being undertaken as part of the July 2009 FERC Order on Rehearing. (**Response: see Attachment 5 to this filing.**)

Action Items

All items are for the Districts team, except those with ***bold italic***.

- 1) The Districts will provide the following information, where available, for the time period(s) during the June 25, 2012 accretion flow measurements:
 - Modesto and Turlock Lake elevations (**Response: See Attachment 5 to this filing**);
 - Determine whether discharge occurred from the City of Waterford Treatment Plant on June 25 (**Response: The Waterford WWTP does not discharge directly into the Tuolumne River but consists of lined treatment ponds which then discharge into percolation ponds (personal communication M Erickson 3/12/2013)**);
 - Canal records of irrigation delivery (**the Districts' diversion records are publicly available at USGS gage 11289000 and 11289500**);
 - Confirm the discharge records for MID's Lateral #5. (i.e., was the flow of 26.5 cfs provided in the July 26 report the amount at the time of the flow measurement [circa 1700 hours] or was it average daily; confirm that it was the actual amount of spill and not the flow in the canal). Also, the Districts were asked to estimate an average accretion rate per mile for each reach and add it to the table. (**Response: the final accretion flow table has been updated and corrected to provide the average flow for Lateral No. 5 during the time period of the measurement [circa 1700 hours]. In addition, the final accretion flow table includes a new column entitled "accretion per mile." The final accretion table is provided in Attachment 5 to this filing.**)
- 2) The Districts plan to conduct two additional field accretion measurements as described below:

- Two additional events to capture additional flow conditions:
 - 1st week in October to target low-irrigation season and before beginning of fall/winter rains and with river flows at approximately 150 cfs; and
 - Early 2013 (January-February) targeting a time with no/minimal irrigation deliveries and very low precipitation, if possible.
 - All locations sampled during June 2012 will be revisited, with the following additional sites (exact locations may vary due to access and field conditions).
 - Somewhere between RM 46 and 49 to target potential depletion/recharge area, final location to be based on accessibility.
 - ***Mr. Koepke to provide document indicating potential groundwater influence to assist in choosing location.***
 - Somewhere between RM 25 and 26 to provide additional information on conditions between RM 30.5 and RM 17 stations.
 - Approximately RM 10 to provide additional information on conditions between the gage at RM 16 and RM 3.7 station.
 - Dry Creek gage (field measurement to check accuracy of gage).
 - Approximately RM 2 on Dry Creek.
- 3) The Districts will identify locations of operational spills to Dry Creek. (***Response: MID's Lateral 2 outlet is the only true operational outlet with consistent flow into Dry Creek at latitude/longitude 37.652142; -120.930206 (Loschke, personal communication 2013. All other spills from the Waterford system into Dry Creek are inconsistent and minimal.)***)
- 4) The Districts will check with CDEC on the reliability of Dry Creek gage DCM. (***Response: The CDEC data is "real time operational data", not necessarily reliable and it is often modified by California DWR before being published to the water data library (WDL). The data that is published to WDL is coded as reliable up to 7364 cfs. There is some discussion about reliability in Attachment B to Appendix A of the W&AR-02 Operations Model Study Report, where the draft long term accretion values to be used in the Operations Model were presented. The table below summarizes the period of record for the gage:***

Total Days (WY 19612-2012)	18,994	100.0%
Good data	10,241	53.9%
Good quality edited data	39	0.2%
Imported from historic records	8,202	43.2%
Estimated data	66	0.3%
Linear interpolation across gap	30	0.2%
Data missing	206	1.1%
No data	210	1.0%

- 5) The Districts will provide the normal operating range for the La Grange Reservoir. (***Response: See Attachment B to these meeting notes.***)
- 6) The Districts will provide a technical memo to describe the preliminary development of the accretion flows into the Tuolumne River between La Grange gage and Dry Creek and a synthesized flow record for Dry Creek as discussed in the meeting. Additional information will be provided regarding the components of flow being estimated, and the potential use of the information in the operations model. (***Response: This memo was issued with the Initial***

(Study Report on January 17, 2013 as Attachment B to Appendix A of the Operations Model Study Report.)

- 7) The Districts will provide data analysis and statistics as agreed upon in this meeting and described in the meeting notes.
- 8) *Mr. Wooster will send HDR and the Districts the 2011 USGS report referenced during meeting regarding USGS analysis method to convert daily flow to instantaneous. (This was completed.)*
- 9) *Mr. Wooster to provide the Districts with additional information on suggested flow categories for the rate of stage change data analysis (i.e., the number of “bins” for the histograms).*
- 10) The Districts will provide relicensing participants with an update regarding the status of Lower Tuolumne River IFIM study. (*Response: An IFIM consultation meeting with agencies and interested parties occurred on November 28, 2012.*)

Attachments

- Meeting Materials and Handouts
 - Meeting Agenda
 - Map of the Tuolumne River from Don Pedro Reservoir to the San Joaquin River
 - Accretion/Depletion Measurement Locations Memo (Posted June 6, 2012)
 - June 25 Flow Measurements Summary (Posted July 26, 2012)
 - Lower Tuolumne River summer and winter flow trends plots for Water Years 2007-2011
 - Lower Tuolumne Gage Calculation plots for Water Years 2001-2010
 - PowerPoint presentation used during the meeting

Attachment A

Data Table for the Don Pedro Project

Data Table for the Don Pedro Project

As of 20120920

Station Name	Parameter (Subject)	Time Series				Source	Start MM/DD/YYYY	END MM/DD/YYYY
		Parameter Description	Unit of Measure	Type of Data or Reading	Time Step			
*****	*****	*****	*****	*****	*****	*****	*****	*****
La Grange Powerhouse								
La Grange Power House	Unit 1 Generation	Energy	MW	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
La Grange Power House	Unit 2 Generation	Energy	MW	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
La Grange Power House	Total Gen	Energy	(KWh ⁻¹)xDay ⁻¹	Integration	Daily	TID EMS	01/01/1990	12/31/2011
La Grange Power House	Release Volume	Volume	AFxDay ⁻¹	Calculation	Daily	TID EMS	01/01/1990	12/31/2011
La Grange Power House	Release Flow	Flow/Discharge	(CFS)xDay ⁻¹	Calculation	Daily	TID EMS	01/01/1990	12/31/2011
La Grange Sluice Gates	Gate 1 Opening	Percentage	%	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
La Grange Sluice Gates	Gate 2 Opening	Percentage	%	Instantaneous	30 Minute	TID EMS	07/01/2004	12/31/2011
Tuolumne River At La Grange								
Tuolumne River La Grange	River Depth	Stage/Gage Height	feet	Instantaneous	15 Minutes	TID Records	1997	04/2012
Tuolumne River La Grange	River Depth-Sea Level Reference	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Tuolumne River La Grange	River Depth-Sea Level Reference	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
Tuolumne River La Grange	River Depth-Sea Level Reference	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005

Data Table for the Don Pedro Project

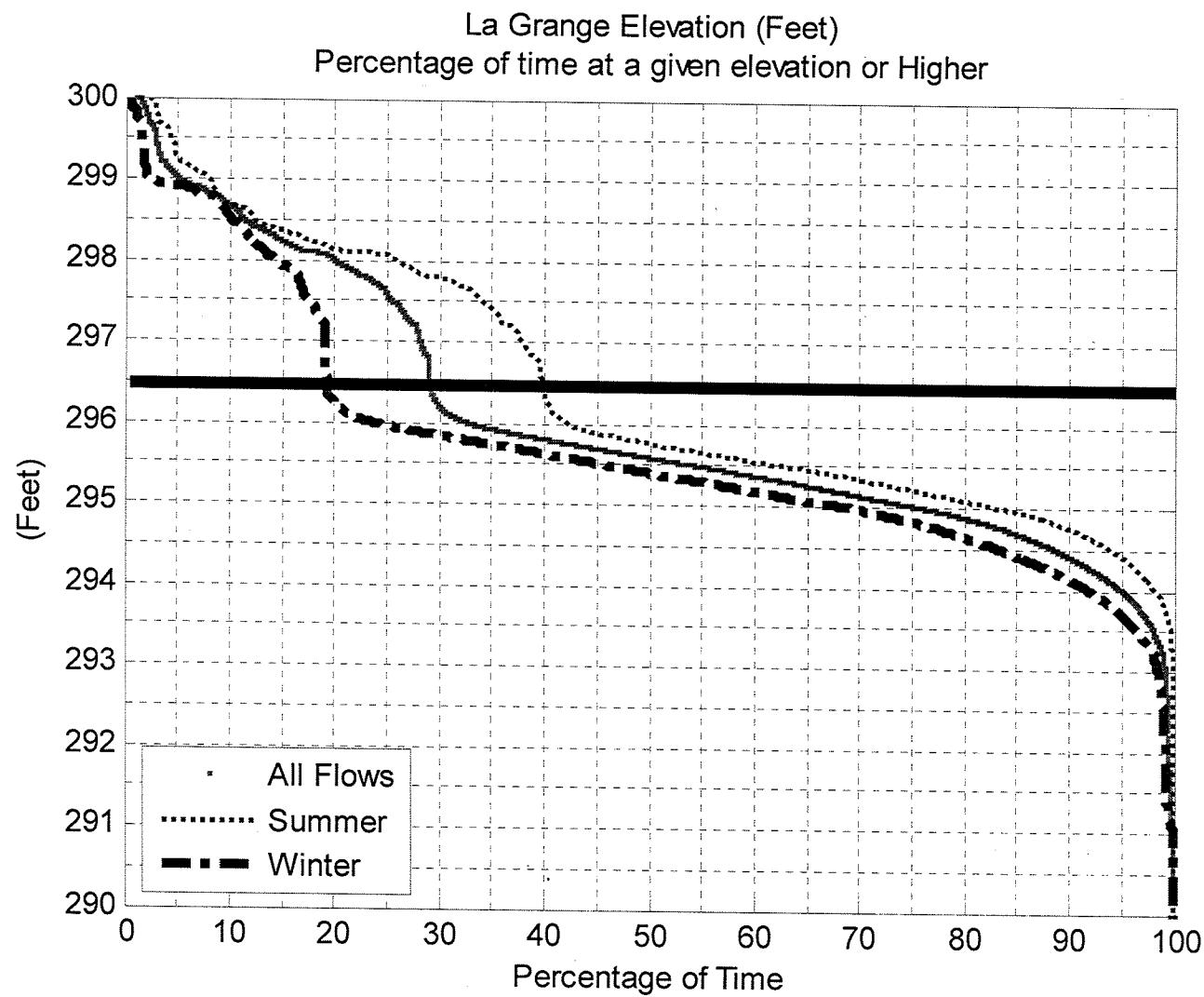
As of 20120920

Station Name	Parameter (Subject)	Time Series				Source	Start MM/DD/YYYY	END MM/DD/YYYY
		Parameter Description	Unit of Measure	Type of Data or Reading	Time Step			
*****	*****	*****	*****	*****	*****	*****	*****	*****
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
Tuolumne River La Grange	Release Flow	Delivered amount	(CFS)	Daily Average	Daily	Final USGS	10/01/1979	09/30/2010
TID Main Canal At La Grange								
TID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
TID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
TID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
TID Canal	Release Flow	Delivered amount	(CFS)	Daily Average	Daily	Final USGS	10/01/1979	09/30/2010
MID Main Canal At La Grange								
MID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
MID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
MID Canal	Release Flow	Delivered amount	(CFS)	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
MID Canal	Release Flow	Delivered amount	(CFS)	Daily Average	Daily	Final USGS	10/01/1979	09/30/2010
Don Pedro Reservoir								
Don Pedro	Reservoir Elevation	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Don Pedro	Reservoir Elevation	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
Don Pedro	Reservoir Elevation	Stage/Gage Height	feet	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011
Don Pedro	Reservoir Storage	Volume	AF	Instantaneous	Hourly	TID EMS	01/16/1996	06/04/2001
Don Pedro	Reservoir Storage	Volume	AF	Instantaneous	Hourly	TID EMS	01/01/2001	02/27/2005
Don Pedro	Reservoir Storage	Volume	AF	Instantaneous	Hourly	TID EMS	01/01/2005	07/17/2011

Attachment B

La Grange Reservoir Headwater Duration Curve

Figure 26. La Grange Reservoir headwater duration curve.



Note: Horizontal black line represents spillway crest elevation.

DRAFT Meeting Minutes

Don Pedro Project Relicensing
Hydrologic Investigations Workshop
Draft Meeting Notes

Friday, September 21, 2012
9:00 a.m. to 1:00 p.m.

Attendees

John Devine (HDR)	Zac Jackson (USFWS)
Jenna Borovansky (HDR)	Bob Hughes (DFG)
Jenn Gagnon (HDR)	Art Godwin (TID)
Bob Hackamack	Bob Nees (TID)
John Buckley (CSERC)	Steve Boyd (TID)
Chris Shutes (CSPA)	Bill Johnston (MID)
Patrick Koepele (TRT)	Bill Paris (MID)
Ramon Martin (USFWS)	Joy Warren (MID)
Peter Barnes (SWRCB)	Greg Dias (MID)
<i>Attended via phone:</i>	
Annie Manji (CFG)	Annee Ferranti (CDFG)
Bill Sears (CCSF)	Donn Furman (CCSF)
Russ Liebig (Stillwater Sciences)	John Wooster (NMFS)
Jim Fargo (FERC)	Gretchen Murphy (CDFG)
Jim Alves (City of Modesto)	Ellen Levin (CCSF)
Tim Findley (Bay Area)	Richard Roos-Collins – partial online
Tim Heyne (CDFG) – partial online	

Purpose of Meeting

The Hydrologic Investigations Workshop was held to discuss with the Don Pedro Relicensing Participants the following items:

- 1) Review of accretion flow measurements conducted on June 25, 2012 (results provided to Relicensing Participants July 26, 2012)
- 2) Path forward related to additional accretion flow measurements
- 3) Hydrologic analysis the Districts are planning in accordance with FERC's Study Plan Determination and Dispute Resolution
- 4) Available Streamflow Data Records/Sources confirmed by the Districts

Meeting Materials

Materials provided to Relicensing Participants to support the meeting discussion:

- Meeting Agenda
- Map of the Tuolumne River from Don Pedro Lake to San Joaquin River
- Accretion/Depletion Measurement Locations Memo (Posted June 6, 2012)
- June 25 Flow Measurements Summary (Posted July 26, 2012)
- Lower Tuolumne River summer and winter flow trend plots for Water Years 2007 – 2011
- Lower Tuolumne Gage Calculation plots for Water Years 2001-2010

Meeting Notes

The purpose of the accretion flow measurements and the gage trend plots (discussed below) are to investigate where changes in flow occur in the lower Tuolumne River between La Grange and Modesto, quantify the flow change, and begin to identify potential locations for flow nodes in the Project Operations Model.

Accretion Flow Measurements Discussion

John Devine summarized the results of the June 25, 2012 field measurements:

- Study methods are described in the June 6 memo to relicensing participants. Efforts were made by the Districts to keep operational outflows to a minimum so measurements would reflect only accretions due to groundwater inflows.
- Accretion measurements map and table were discussed, walking through each measurement location.
- USGS conducted flow measurements at the USGS' La Grange gage the day before accretion field measurements, USGS decided a shift change was necessary based on the USGS gage measurements. Therefore, the USGS gage data reported in the table reflect this shift change.
- The June 25, 2012 field accretion flow measurements used the same flow measurement standards as the USGS.
 - The flow measurements have good consistency for measurements from cross section to cross section
 - The same team was used to conduct the measurements on the same day, with a systematic approach
 - Some difference between gage records and field measurements can be expected. USGS gage records are daily while the field measurements are instantaneous
 - The far right column in data table of accretion measurements compares the measured flows to the recorded gage readings

- It was agreed that additional field measurements would provide useful information; the June measurements are illustrative of conditions and were used to discuss additional measurement locations and information needs with relicensing participants.
- Based on a SWRCB April 1989 report, there are few identified pumping withdrawal points within the lower Tuolumne River reach. Depletions due to irrigation pumping do not appear to play a role in the area where the field measurements were taken.
- Participants reviewed measurements throughout the river and discussed the available data and potential influences on river flows in the reaches where changes in flow were observed.
- John Devine summarized the information gained from the accretion measurements:
 - The lower Tuolumne River is an accreting river
 - The data are showing zones of accretion which appear consistent with potential groundwater source areas (cross-referenced the USGS Scientific Investigations Report 2004-5232 entitled *Hydrogeologic Characterization of the Modesto Area*)
- After review of the June measurements and discussion with relicensing participants, the Districts agreed to perform accretion measurements (to be collected in early October) at the following locations:
 - All locations sampled during June 2012 will be revisited
 - Somewhere between RM 46 and 49: to target potential depletion/recharge area, final location to be based on accessibility
 - *Patrick Koeppele to provide document indicating potential groundwater influence to assist in choosing location*
 - Somewhere between RM 25 and 26: to provide additional information on conditions between RM 30.5 and RM 17 stations.
 - Approximately RM 10: to provide additional information on conditions between the gage at RM 16 and RM 3.7 station
 - Dry Creek gage (field measurement to check accuracy of gage)
 - Approximately RM 2 on Dry Creek
- If conditions allow, the Districts will target measurements during a dry period in January-February 2013.

Additional information requested by relicensing participants during discussion of accretion measurements is summarized in the action items at the end of these notes.

Flow Trend Plots

John Devine reviewed preliminary information regarding available gage data, and potential methods of estimating annual flow inputs at locations where relicensing participants have requested modeling nodes, but where gages do not exist to provide long term records. This preliminary information and how it could be used was discussed with relicensing participants.

HDR will provide a background technical memo to explain the flow plots discussed during the meeting. The purpose of the Lower Tuolumne accretion flow estimates and Dry Creek gage synthesis is to attempt to address the Relicensing Participants questions of where flow nodes could be located in the Project Operations Model, and whether the Dry Creek information can be useful. Information contained in the plots includes:

- The plots demonstrate that during dry periods there appears to be a seasonal pattern of consistent base flow.
- Components of the Dry Creek synthetic gage estimates are base flow, supported by groundwater accretions, and a natural flow component.
- The mathematical difference between the Modesto gage and the sum of the Dry Creek and La Grange gages was reviewed to begin to identify accretion flows in the lower Tuolumne River. These data demonstrate that this approach does not provide a reasonably consistent estimate of accretion flows.
- The data were further investigated using two Gaussian-smoothing functions and then reviewed for monthly trends of base flow component; the “smoothed” plots appear to indicate seasonal components to flow.
- The field accretion measurements are being collected to try to come to a common understanding of the lower Tuolumne River where there are no established gages and provide additional information to supplement flow trends analysis. The approach is to use the combination of the field measurements and the gage synthesis to develop a reasonable representation of accretion flows to the lower Tuolumne River.

The “smoothed” plots are a way to develop flow quantities and locations on the Tuolumne River between La Grange and Modesto. The flow measurements, taken at locations where there are no established gages, are a way to identify where specific zones of accretion flows are occurring.

In past comments, relicensing participants have expressed interest in identifying operation model node locations at Roberts Ferry Bridge, above Dry Creek, Shiloh, and the infiltration gallery. To be meaningful in the model, the nodes must be located to reflect change in hydrology. Accretion measurements provide an idea of where the change in flow is occurring. Future October and January measurements will provide opportunity to observe patterns (consistent base flow, seasonal trends). The data sources available are gage records and these accretion measurements.

The trend plots are not the only way to estimate the necessary information. Relicensing participants were asked to provide additional ideas on methods by which the desired information for the additional modeling nodes may be derived. John Devine emphasized that the information was being shared in preliminary form in order to share the status of information development and gather feedback. The districts emphasized that they would welcome other ideas to addressing this issue.

Hydrologic Analysis Previously Requested by Relicensing Participants

The goal of this agenda item was to review prior data requests from relicensing participants, as summarized on the agenda, and to develop a common understanding of the exact analyses to be conducted.

Available Data

A table of all available data sources was posted to the relicensing website, and is attached to these meeting notes.

Additional discussion on streamflow data:

- For La Grange gage location -- Districts have 15-minute stage data, will contact USGS for 15-minute flow data or use gage rating to calculate flow if unavailable.
- The Districts have hourly La Grange powerhouse release data.
- The Districts were requested to provide general description of the range of operation of the La Grange pool; Districts will provide the La Grange pool headwater duration curve.

Statistical analysis to be conducted for existing project conditions

The agenda summarized the statistical analysis to be conducted:

- a) Average, maximum and minimum monthly flows for 1971- 2009, 1996-2009, and by water year type
- b) Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type
- c) Average annual flows for 1971-2009 and 1996-2009
- d) 1-3, and 7-day maximum mean daily flow for each year of 1971-2009
- e) 1-3, and 7-day minimum mean daily flows for each year of 1971-2009
- f) Julian date and magnitude of annual maximum and minimum

Discussion and confirmation of the above analyses are summarized below:

- Relicensing Participants agreed that the two time periods (1971-2009 and 1996-2009) were sufficient, but that analysis should be extended to 2011.
- The average annual flows for the two time periods are available in the PAD.
 - When the operations models are run, the output will include this data
- It was acknowledged that the Districts may not have full 100 points for exceedance when different time periods are run.
- Relicensing participants agreed on a moving average (for 1, 3, 7 day max/min mean daily flows 1971-2011).
 - The moving values will be averaged, and the analysis will report max/min/ mean daily flow value of the mean daily flows for each year
 - Relicensing participants requested data output as exceedance plots instead of time series

Watershed locations for statistical analysis

The agenda summarized the statistical analysis to be conducted:

- a) Tuolumne River, inflow to Don Pedro Reservoir
- b) Tuolumne River just above La Grange Dam
- c) Turlock Canal near La Grange CA (USGS gage)
- d) Modesto Canal near La Grange CA (USGS gage)
- e) Tuolumne River below La Grange Dam near La Grange CA (USGS gage)
- f) Dry Creek at Modesto (CDWR gage)
- g) Tuolumne River at Modesto CA (USGS gage)

Discussion and confirmation of the above locations are summarized below:

- Relicensing participants agreed with the identified locations.
- For the inflow to Don Pedro Reservoir, relicensing participants requested that it be reported as regulated and unregulated inflow. It was explained that in the operations model, Don Pedro inflows are divided into the two actual components (a regulated portion from CCSF facilities and an unregulated component).
- In the previous hydrology discussions the Districts provided a schematic of the CCSF and Districts facilities; relicensing participants requested information on which elements of the schematic would be provided in the operations model. The October meeting on WAR-2 will include this discussion. The model combines the outflows from O'Shaughnessey and outflows from Eleanor/Cherry into a single node, model users can adjust value of flow at this node.

Other hydrologic analyses to be conducted needing further clarification

John Devine requested discussion and clarification from relicensing participants regarding the following analyses requested by the National Marine Fisheries Service, and summarized on the agenda as:

- Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California.
- Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records.

Discussion and confirmation of the requested information is summarized below:

Peak flow analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations using USGS Regional skew for California. The data processing clarifications at the meeting are summarized below:

- The outflow of La Grange diversion dam is recorded at the La Grange gage.
- The Relicensing Participants want log-Pearson type III flood flow analysis based on both USGS Regional skew and USGS analysis to bump daily measurements. (*John Wooster to provide the 2011 Report referenced regarding USGS analysis to bump daily to instantaneous – this has been provided.*)

Rate of Stage Change analysis using the Tuolumne River below La Grange Dam near La Grange gage for 1971-2009 using 15-minute gage records. Discussion included the following clarifications:

- Request based on desire for results to provide relicensing participants an indication of how quickly flow changes occur.
- The Districts use Real-time USGS data currently to ensure flow change rate compliance per the FERC license.
- Relicensing Participants questioned whether the existing condition in License Article 38 rate of stage change component could be analyzed. Districts did not believe it could be analyzed, but will reevaluate this.
- Article 38: fluctuation in stage to daily period (45 day, November 5 – December 20) spawning issue; stage change is limited.
- John Wooster has 4 years of La Grange gage stage data, will run analysis and identify desired tabular ranges (“bins”) for these analyses.

- Tabular measure of stage change – bins will be picked for histogram depending on the range of population (suggested initial 10-15 bins).
- Rolling hour, 15-minute increments is preferred.
- A monthly basis analysis is of most importance, but an additional plot for annual will be included.

La Grange project data analysis (regarding the flow through the different conduits, per Relicensing Participants request Element 2 in Study Plan Request)

- There is not enough data to split flow to various conduits (no records on Modesto or long term records on TID gates).
 - Districts will supply hourly flow data records for the powerhouse and flow in MID and TID canals and gage data downstream of La Grange Dam to satisfy this request; relicensing participants agreed since data is not available

Additional Items

Bob Hughes noted for the record that CDF&G's participation in the meeting does not change positions expressed in comments recently filed with the SWRB regarding the methods used to calculate unimpaired inflow to Don Pedro.

Relicensing participants requested that the Districts provide an update on the schedule for completion of the Lower Tuolumne River instream flow study being undertaken as part of the July 2009 FERC Order on Rehearing. (*Response: Draft report is scheduled to be issued for review in early February, 2013.*)

Action Items

All items are for the Districts team, except those with ***bold italic***.

- 1) The Districts will provide the following information, where available, for the time period(s) during the June 25, 2012 accretion flow measurements:
 - Modesto and Turlock Lake elevations;
 - Determine whether discharge occurred from the City of Waterford Treatment Plant on June 25;
 - Canal records of irrigation delivery (the Districts can report diversions from La Grange reservoir on June 25);
 - Confirm the discharge records for MID's Lateral #5. (i.e., was the flow of 26.5 cfs provided in the July 26 report the amount at the time of the flow measurement [circa

1700 hours] or was it average daily; confirm that it was the actual amount of spill and not the flow in the canal).

- 2) The Districts will estimate an average accretion per mile for each reach and add it to the table.
- 3) The Districts plan to conduct two additional field accretion measurements as described below:
 - o Two additional events to capture additional flow conditions:
 - 1st week in October to target low-irrigation season and before beginning of fall/winter rains and with river flows at approximately 150 cfs;
 - Early 2013 (January-February) targeting a time with no/minimal irrigation deliveries and very low precipitation, if possible.
 - o All locations sampled during June 2012 will be revisited, with the following additional sites (exact locations may vary due to access and field conditions):
 - ***Patrick Koepele to provide document indicating potential groundwater influence to assist in choosing location.***
 - o Somewhere between RM 46 and 49 to target potential depletion/recharge area, final location to be based on accessibility
 - o Somewhere between RM 25 and 26 to provide additional information on conditions between RM 30.5 and RM 17 stations.
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 - o Approximately RM 2 on Dry Creek
- 4) The Districts will identify locations of operational spills to Dry Creek.
- 5) The Districts will check with CDEC on the reliability of Dry Creek gage DCM.
- 6) The Districts will provide the normal operating range for the La Grange Reservoir.
- 7) The Districts will provide a technical memo to describe the preliminary development of the accretion flows into the Tuolumne River between La Grange gage and Dry Creek and a synthesized flow record for Dry Creek as discussed in the meeting. Additional information

- will be provided regarding the components of flow being estimated, and the potential use of the information in the operations model.
- 8) The Districts will provide data analysis and statistics as described in the meeting notes in response to relicensing participant's data requests.
 - 9) ***John Wooster will send HDR and the Districts the 2011 USGS report referenced during meeting regarding USGS analysis method to convert daily flow to instantaneous. (This was completed.)***
 - 10) ***John Wooster to provide the Districts with additional information on suggested flow categories for the rate of stage change data analysis (i.e., the number of “bins” for the histograms).***
 - 11) The Districts will provide relicensing participants with an update regarding the status of Lower Tuolumne River IFIM study. (*Response: Draft report is scheduled to be issued for review in early February, 2013.*)

Attachments

- Agenda.
- The meeting PowerPoint presentation and materials provided prior to the meeting are posted on the Don Pedro relicensing web-site.

Meeting Materials & Handouts

Meeting Agenda

Map of the Tuolumne River from Don Pedro Reservoir to the San Joaquin River
Accretion/Depletion Measurement Locations Memo (June 6, 2012)
June 25 Flow Measurements Summary (Posted July 26, 2012)
Lower Tuolumne River Summer & Winter Flow Trends Plots for WYs 2007-2011
Lower Tuolumne Gage Calculation Plots for WYs 2001-2010
PowerPoint Presentation Used During the Meeting



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**Don Pedro Relicensing Participants
Hydrologic Investigations Workshop
AGENDA**

September 21, 2012 - 9:00 a.m. – 12:30 p.m.

Modesto Irrigation District Offices

Conference Call-In Number 866-994-6437; Code 5424697994

9:00 a.m.- 9:15 a.m.

Introductions & Purpose of Meeting

- (1) Review of Accretion Flow Measurements Conducted on June 25, 2012
- (2) Discussion of Hydrologic Analyses the Districts are Planning to Undertake

9:15 a.m.-10:30 a.m.

Discussion of Results and Path Forward Related to Accretion Flow Measurements Conducted on June 25, 2012 and Provided to Relicensing Participants on July 26, 2012

10:30 a.m.-11:30 a.m.

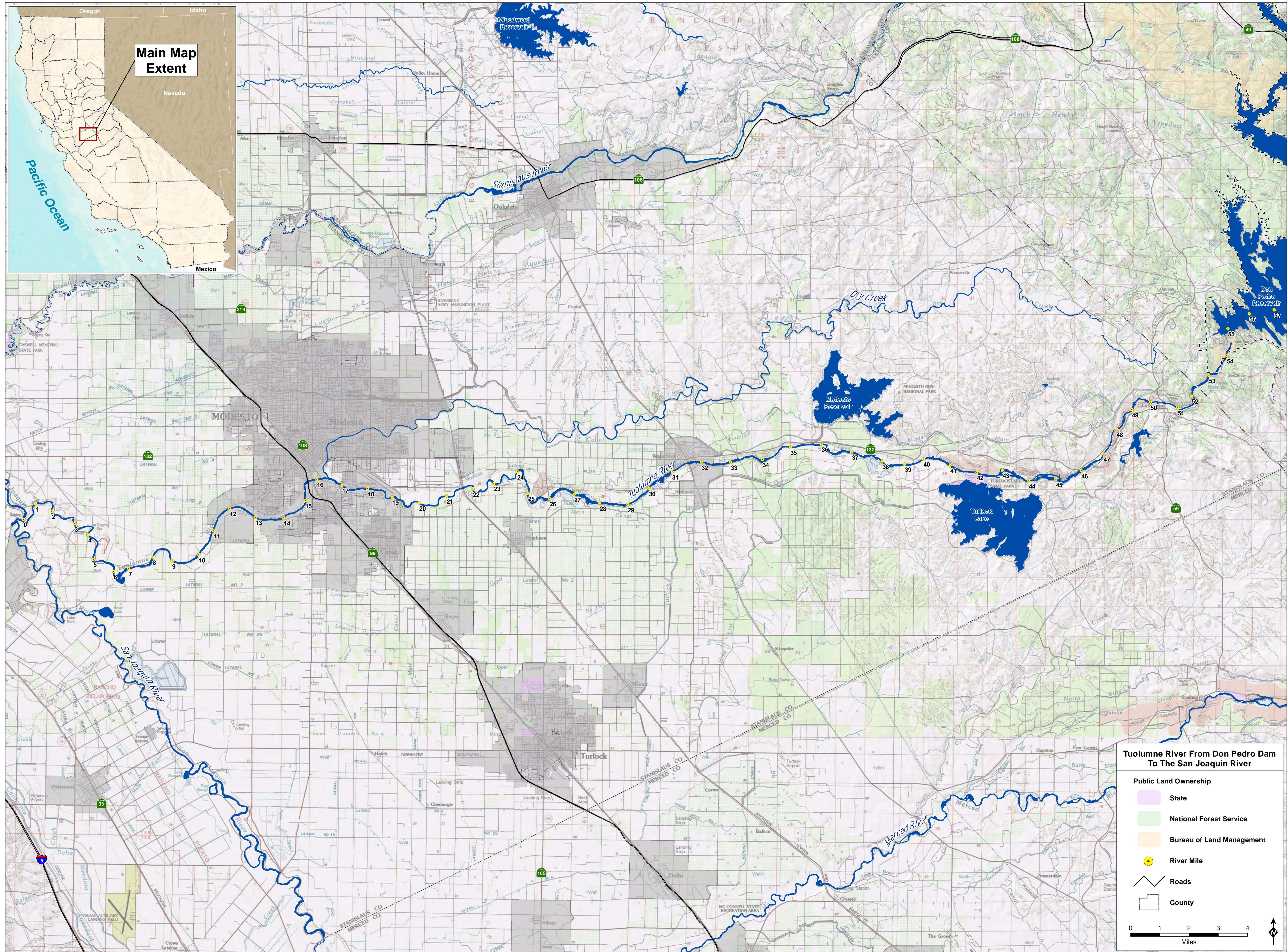
Discussion of Hydrologic Analyses to be Conducted by the Districts in Accordance with FERC's Study Plan Determination and Dispute Resolution

- (1) Available Streamflow Data Records/Sources Confirmed by Districts
- (2) Overview of FERC's Study Plan Determination and Dispute Decision as Relates to Hydrologic Analyses
- (3) Statistical Analyses to be Conducted for Existing Project Conditions
 - a. Average, maximum and minimum monthly flows for 1971-2009, 1996-2009, and by water year type
 - b. Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type
 - c. Average annual flows for 1971-2009 and 1996-2009
 - d. 1-, 3-, and 7-day maximum mean daily flow for each year of 1971-2009
 - e. 1-, 3-, and 7-day minimum mean daily flows for each year of 1971-2009
 - f. Julian date and magnitude of annual maximum and minimum
- (4) Watershed Locations for Statistical Analyses
 - a. Tuolumne River, inflow to Don Pedro Reservoir
 - b. Tuolumne River just above La Grange Dam
 - c. Turlock Canal near La Grange CA (USGS gage)
 - d. Modesto Canal near La Grange CA (USGS gage)
 - e. Tuolumne River below La Grange Dam near La Grange CA (USGS gage)
 - f. Dry Creek at Modesto (CDWR gage)
 - g. Tuolumne River at Modesto CA (USGS gage)

11:30 a.m.-12:30 p.m.

Other Hydrologic Analyses to be Conducted (these analyses need further clarification and discussion)

- (1) Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California
- (2) Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records





Memo

To:	Don Pedro Relicensing Participants	
From:	Turlock Irrigation District / Modesto Irrigation District	Project: Don Pedro Hydroelectric Project
Date:	June 6, 2012	

RE: Study W&AR 2 Operations Model
Action Item from April 9, 2012, Hydrology Workshop
Proposed Lower Tuolumne Flow Accretion and Depletion Measurement Locations

In accordance with our Study Plan W&AR-2 (November 22, 2011), the FERC Study Plan Determination (December 22, 2011), and the most recent FERC Study Dispute Determination (May 24, 2012), we are planning to undertake between June 25 and 29, 2012, flow measurements along the lower Tuolumne River between La Grange Gage and the San Joaquin River confluence, as well as within Dry Creek, to develop estimates of flow accretions and/or depletions (Table 1 and Figure 1). Using accepted flow measurement methodologies, flows will be measured at permanent gage locations, established Instream Flow Incremental Methodology (IFIM) transect locations, and other sites where flow changes may be discernible. Fieldwork will consist of direct measurement of in-channel discharge at ten locations when flows of 100 cubic feet per second are scheduled, as well as opportunistic flow data acquisition at six additional irrigation canal outflow locations, if outflows are occurring. Discharge at each site will be measured using standard methods for collecting data in wadeable streams (Rantz 1982). Depths and mean column water velocities will be measured across each transect using the same methods as used in the co-occurring IFIM stream habitat assessment (Stillwater Sciences 2009). Where transects have a series of water depths greater than approximately 3.5 feet, depth and velocity may be measured using Acoustic Doppler Current Profiler methods (e.g., Simpson 2002). *Please provide suggestions or comments on this plan to John Devine (john.devine@hdrinc.com) by Wednesday, June 20th.* This data is targeted to be compiled, checked, and then shared with Relicensing Participants by the first week in August.

Table 1. Flow measurement and data acquisition June 2012.

River Mile	Location
51.5	Near La Grange Gage
49.1	Basso Pool
43.4	Bobcat Flat
39.5	Roberts Ferry Bridge
37.1	Santa Fe Aggregates
33	Waterford Main (MID) ¹
33	Hickman Spill (TID) ²
31.5	Waterford
20	Faith Home Spill (TID) ²
18	Lateral No. 1 (MID) ¹
17.2	Legion Park
16.4	Dry Creek Gage
16.2	Modesto Gage
11	Lateral 1 (TID) ²
3.4	Shiloh Road
2	Lateral No. 5 (MID) ¹

¹Opportunistic site. Flow data provided by MID if outflow is occurring during study period

²Opportunistic site. Flow data provided by TID if outflow is occurring during study period

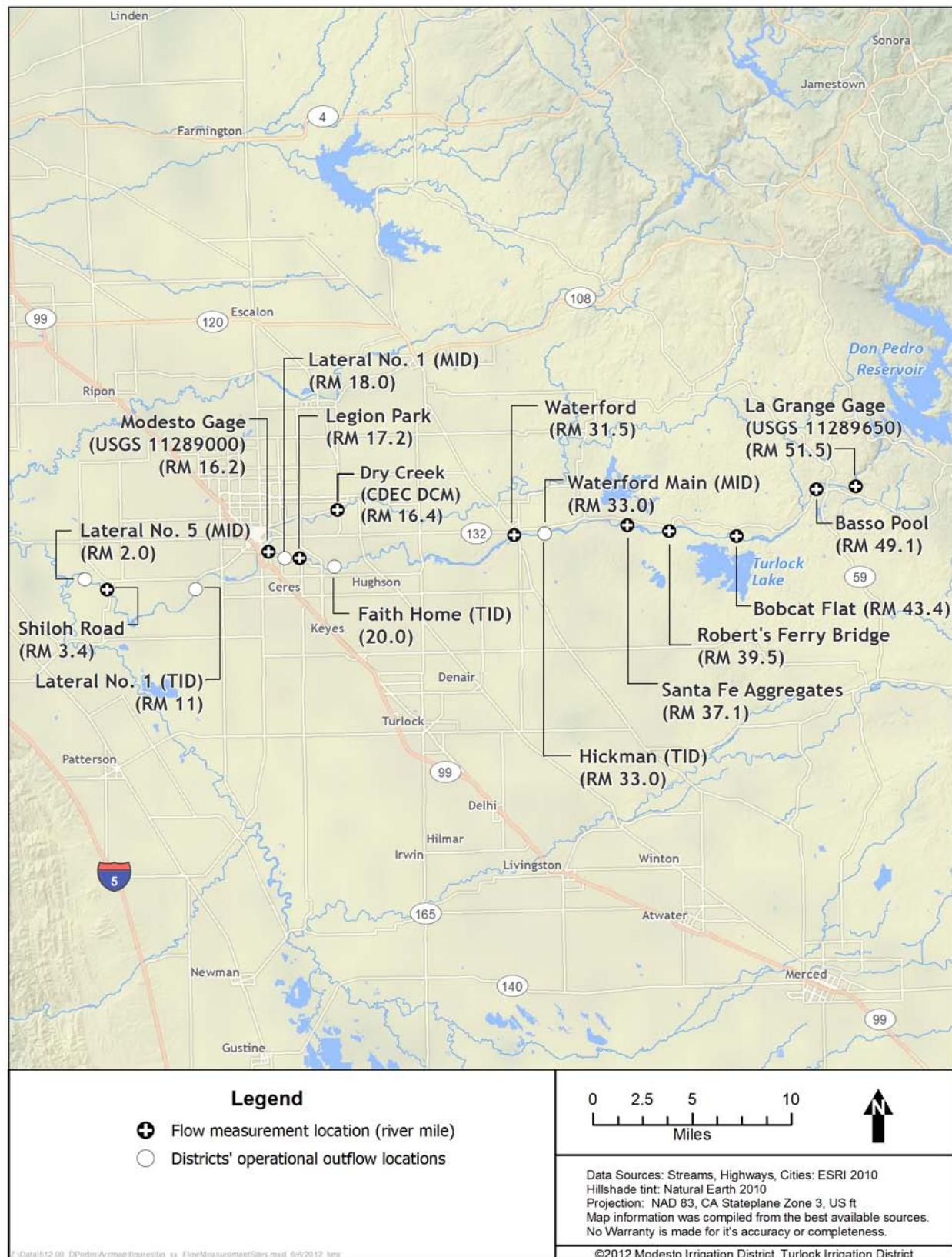
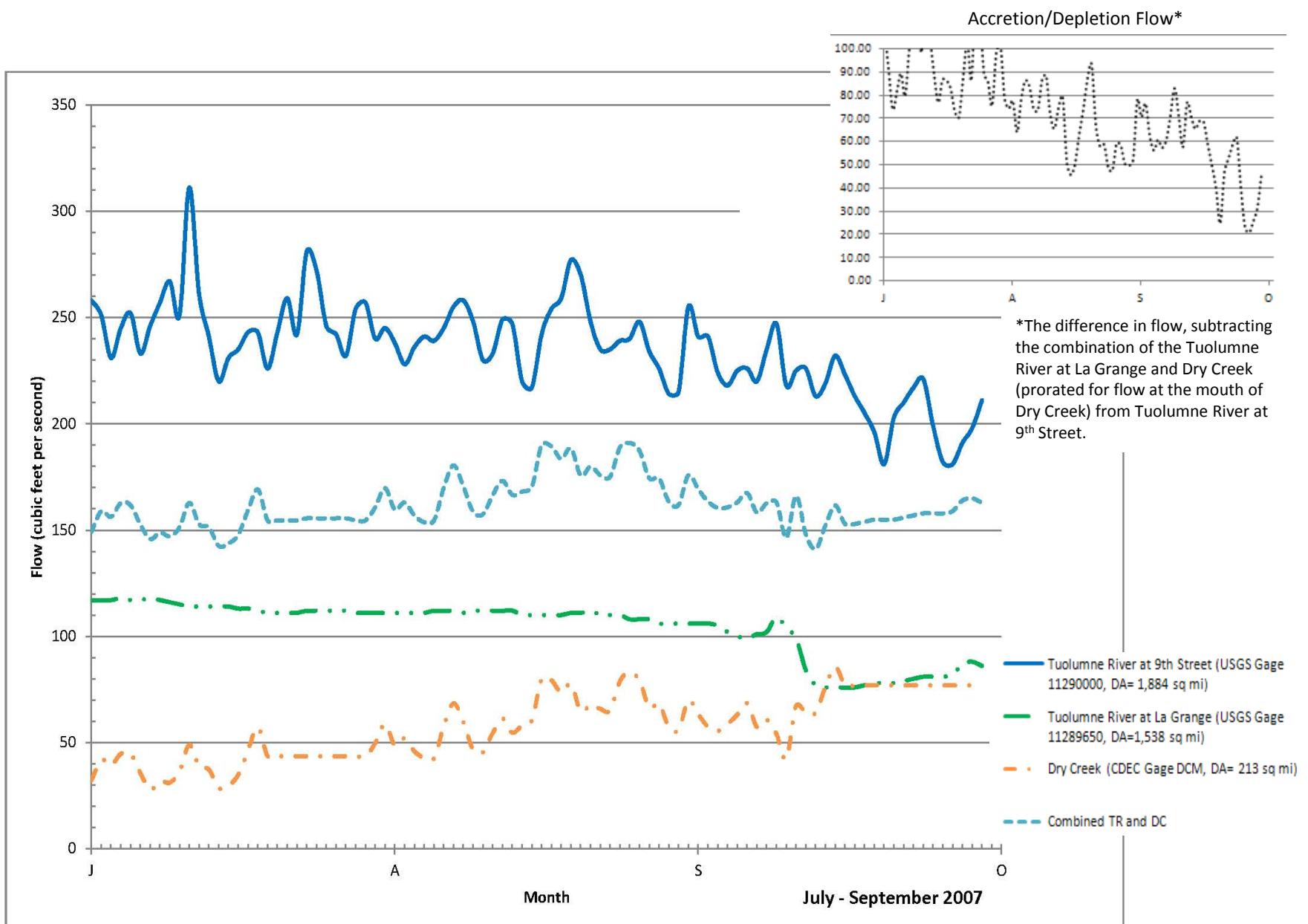
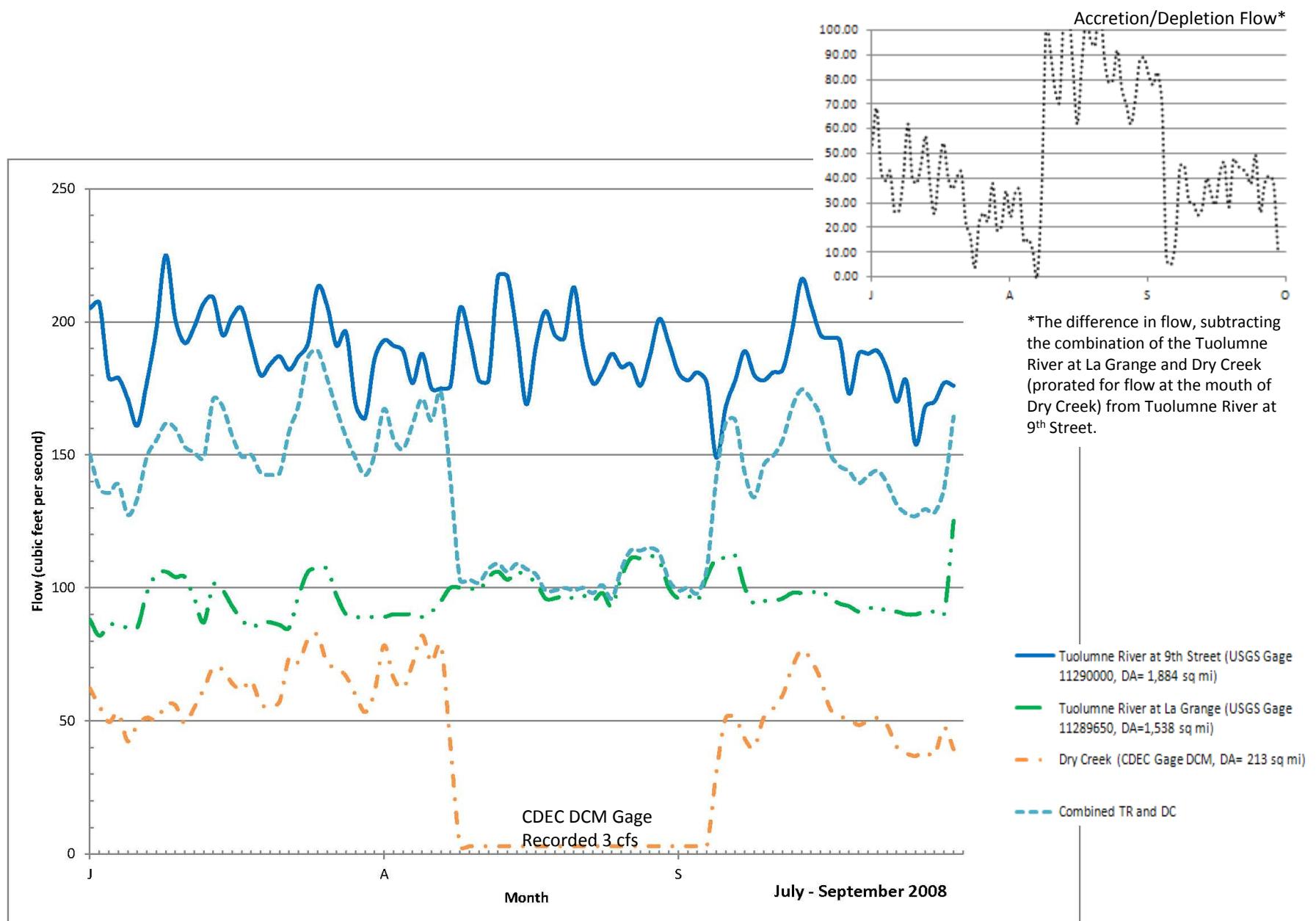


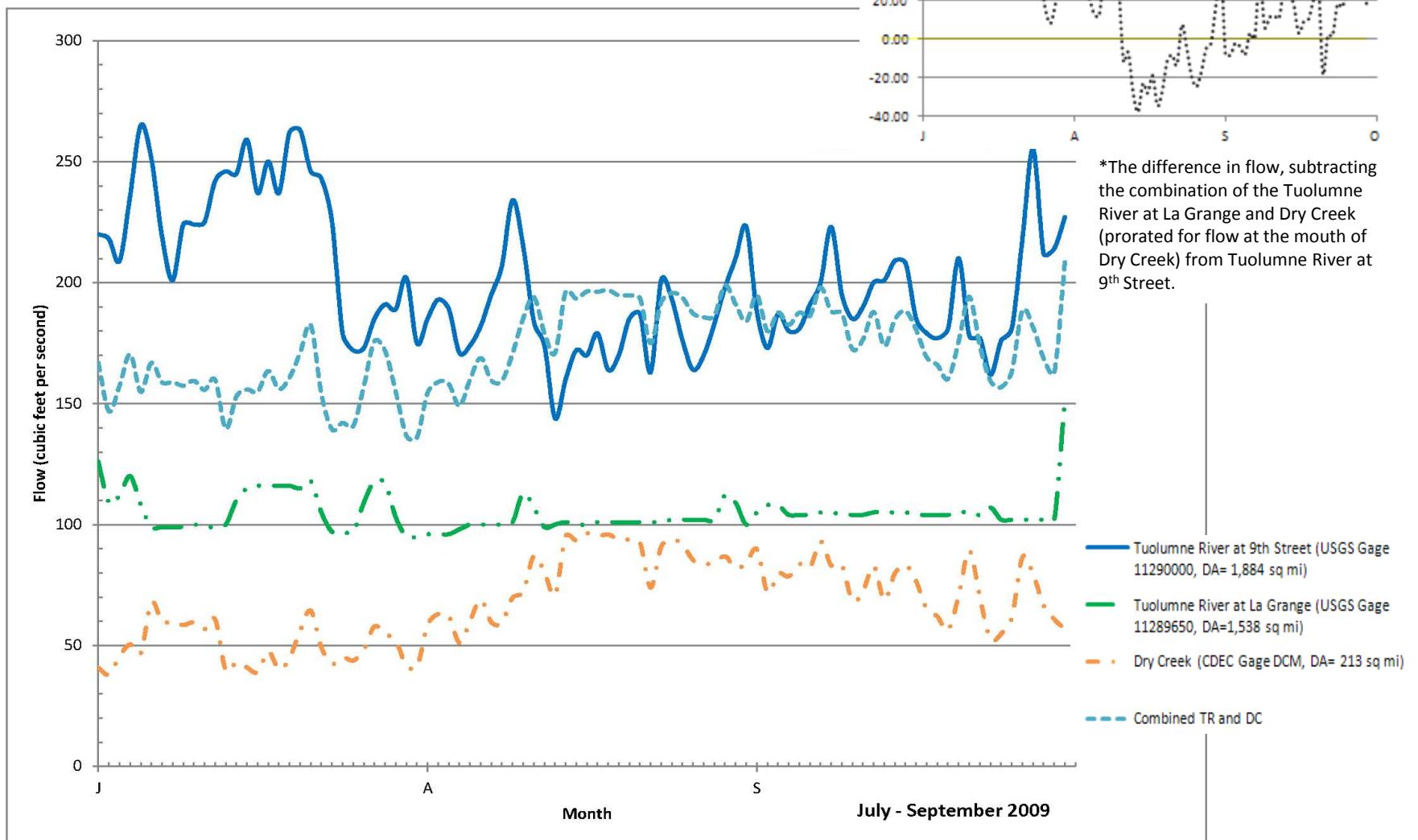
Figure 1. Flow measurement site locations along the lower Tuolumne River, June 2012.

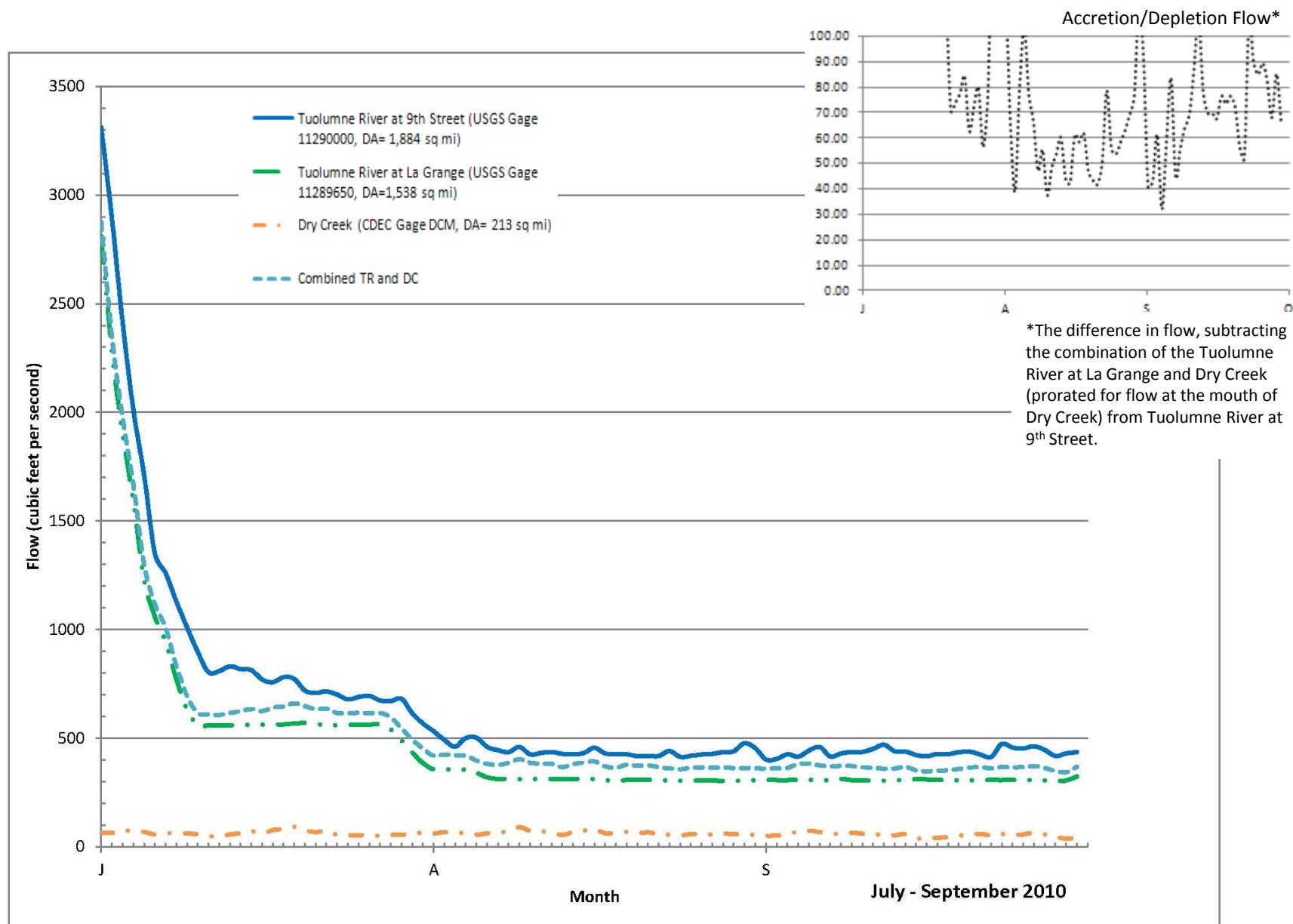
References

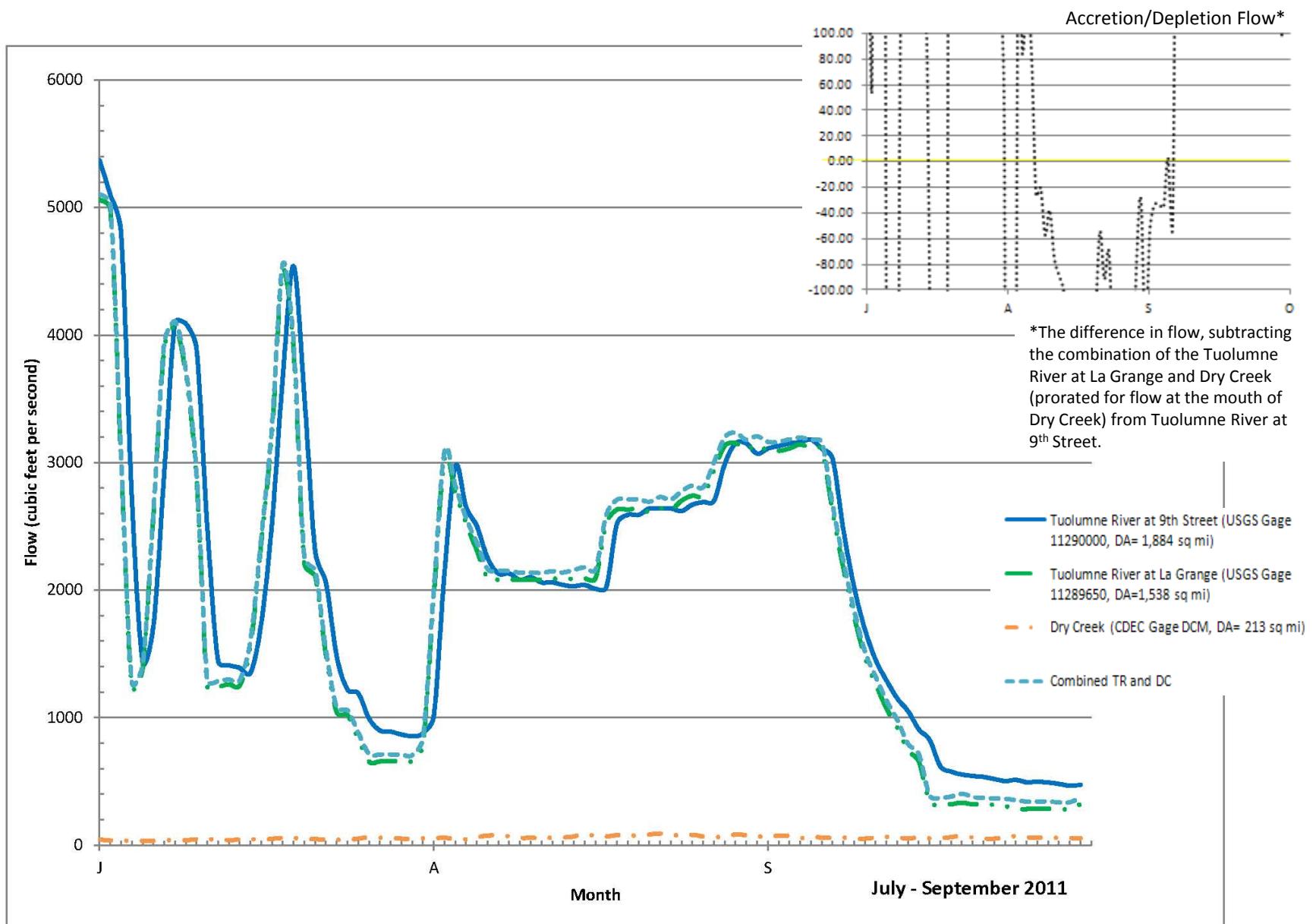
- Rantz, S.E. 1982. Measurement and computation of streamflow: volume 1. Measurements of stage and discharge. USGS Water Supply Paper 2175. U.S. Geological Survey.
- Stillwater Sciences. 2009. Tuolumne River Instream Flow Studies. Final Study Plan. Prepared by Stillwater Sciences, Davis, California for Turlock Irrigation District and Modesto Irrigation Districts, California.
- Simpson, M.R., 2002, Discharge measurements using a Broad-Band Acoustic Doppler Current Profiler: U.S. Geological Survey Open-File Report 01-01, 123 p.

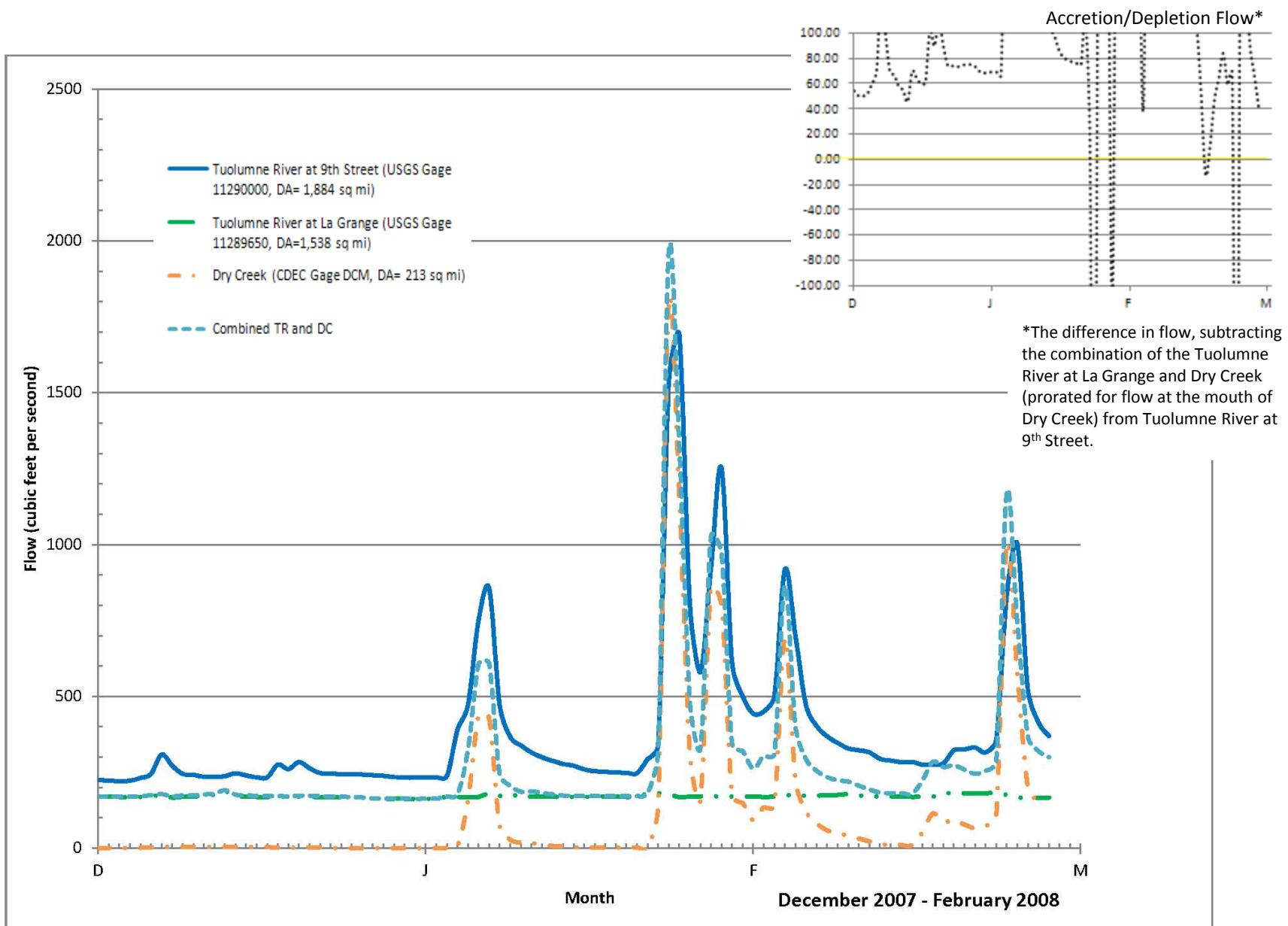


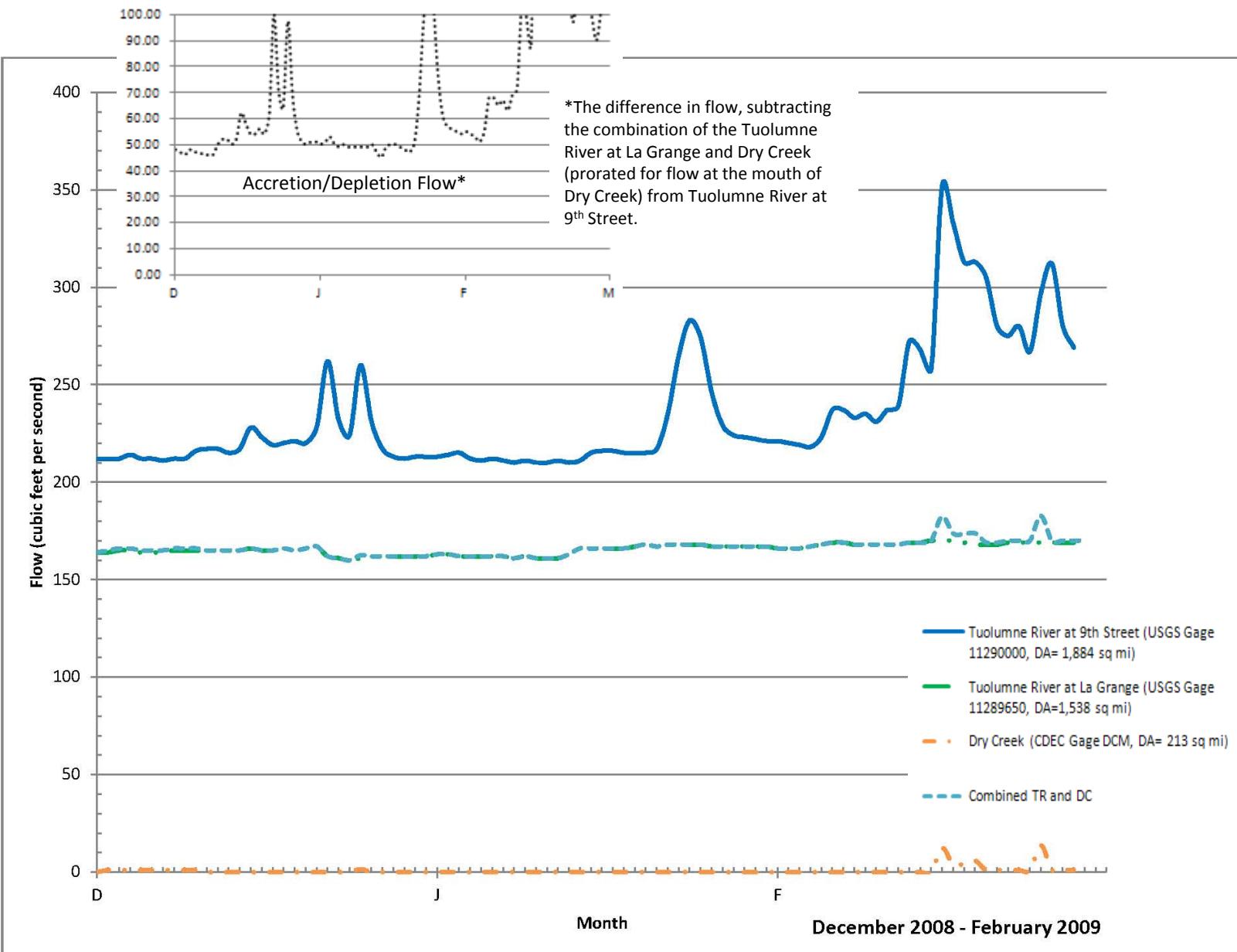


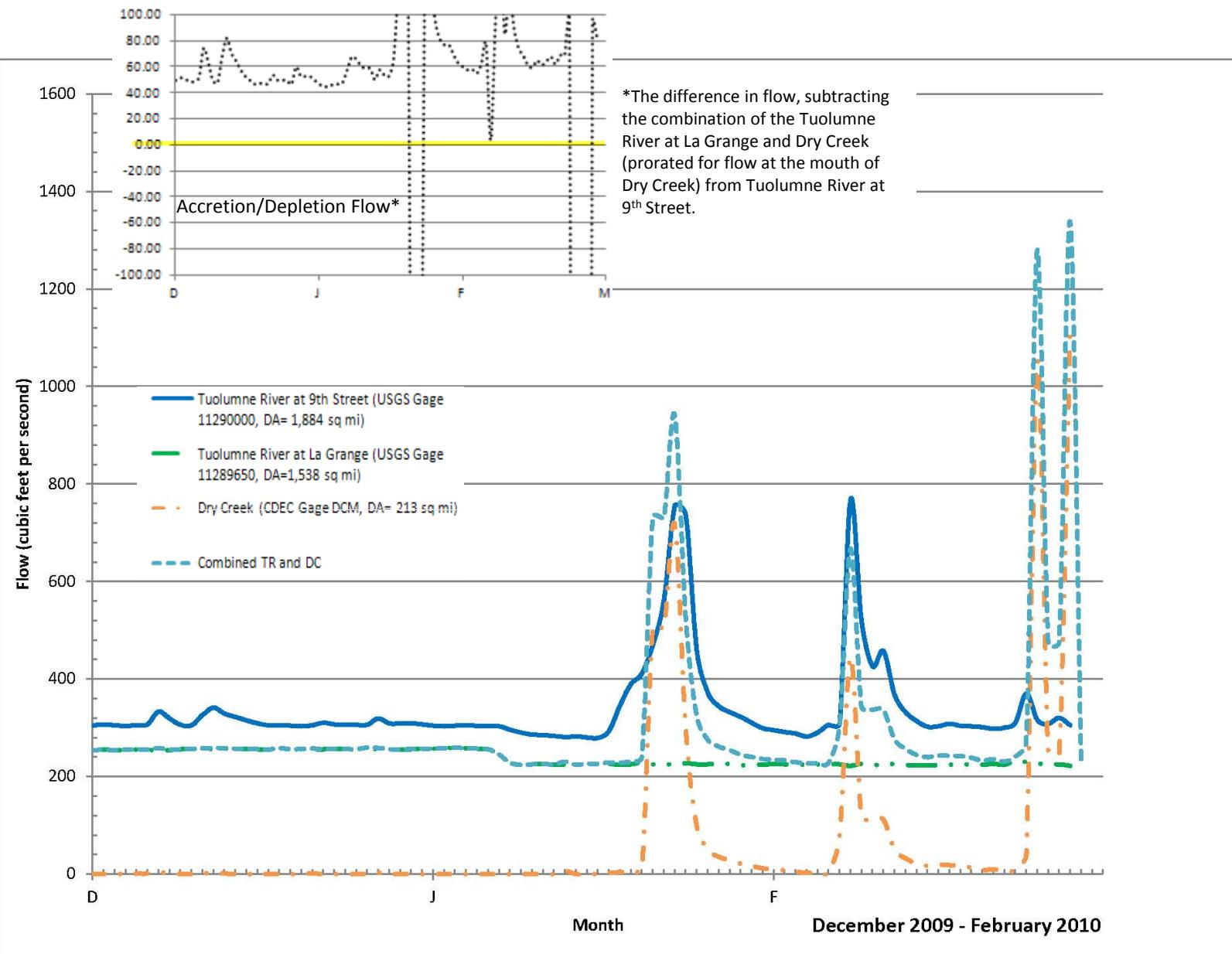


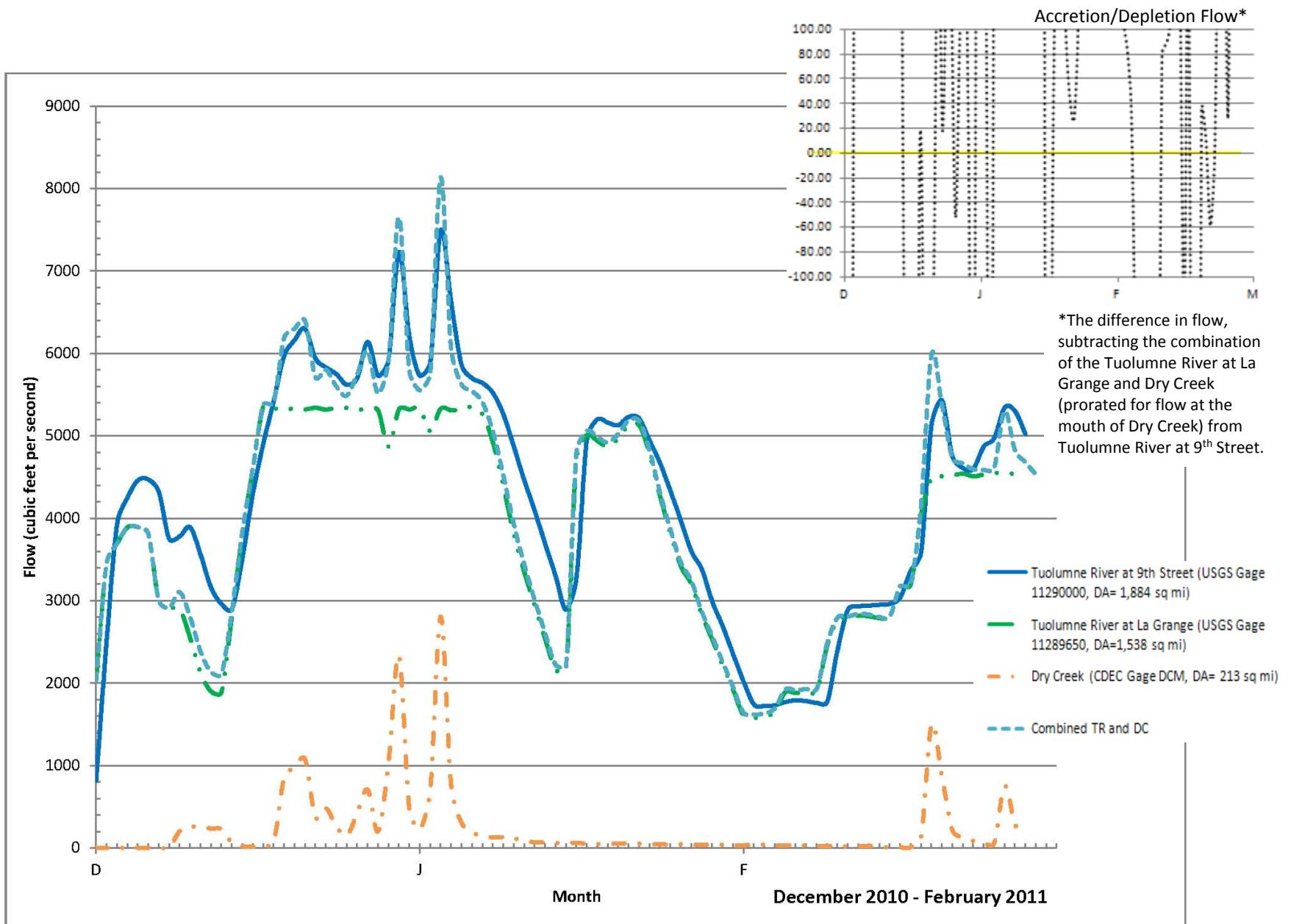


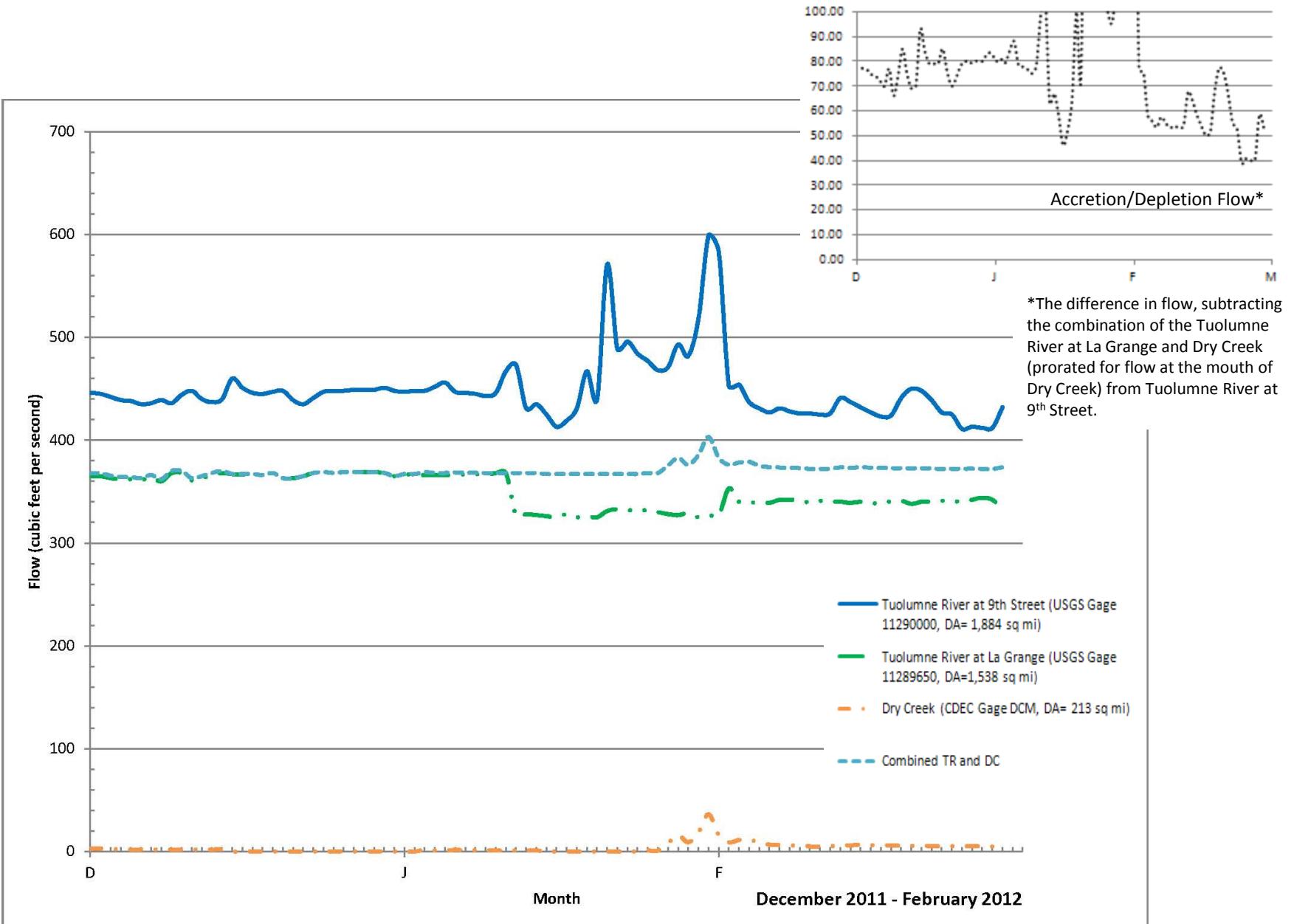




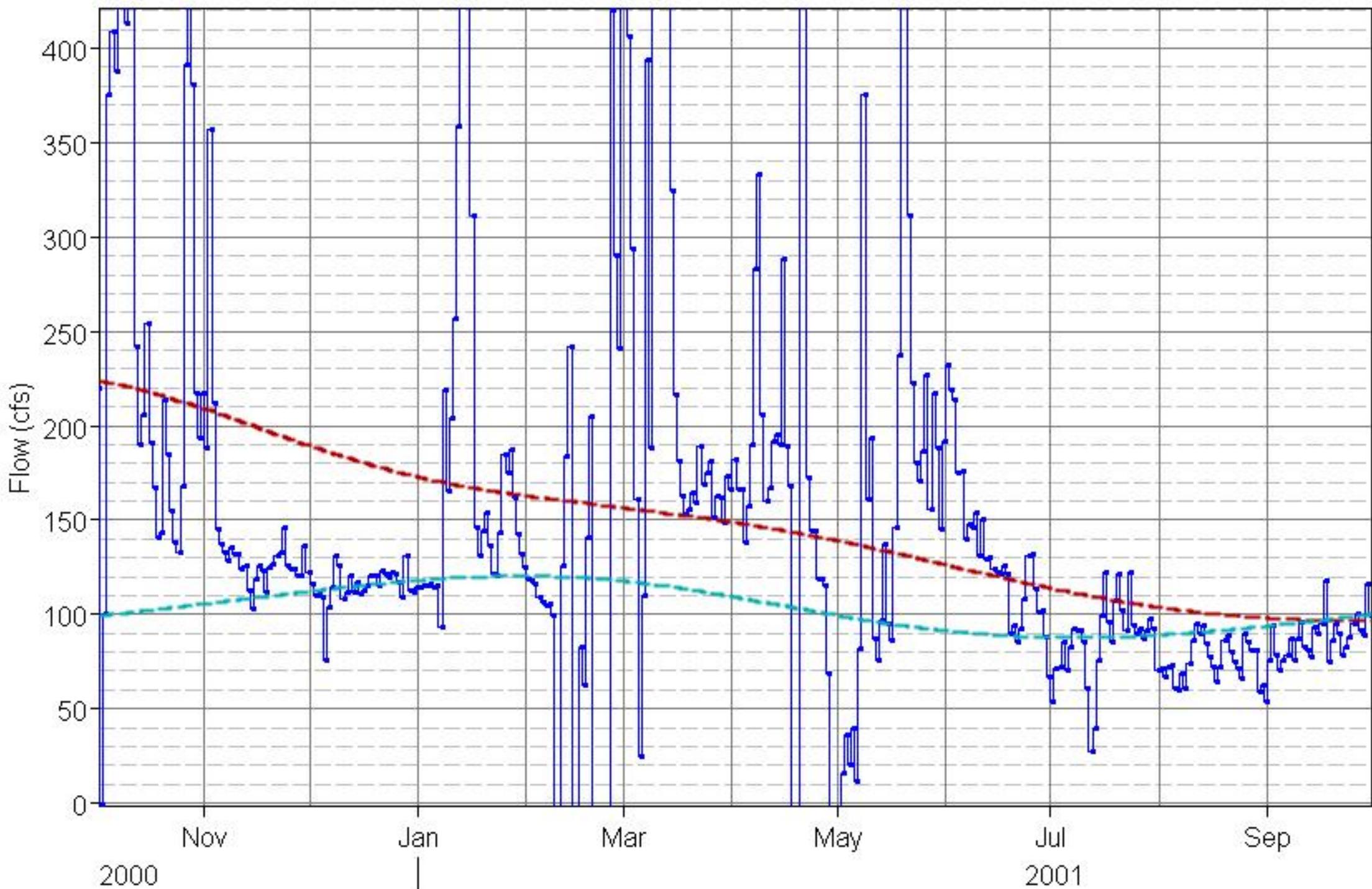




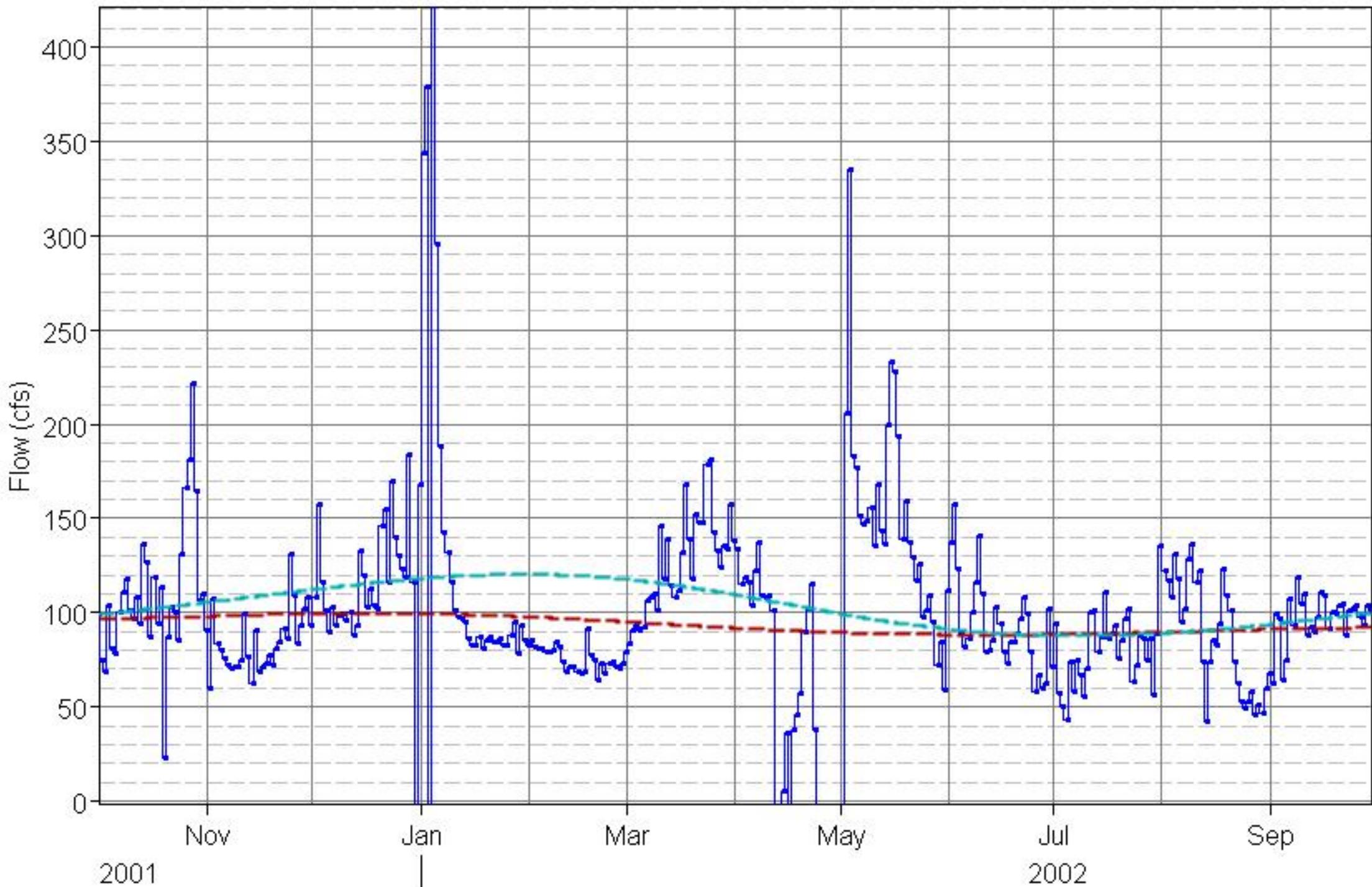




WY 2001 - Median Dry

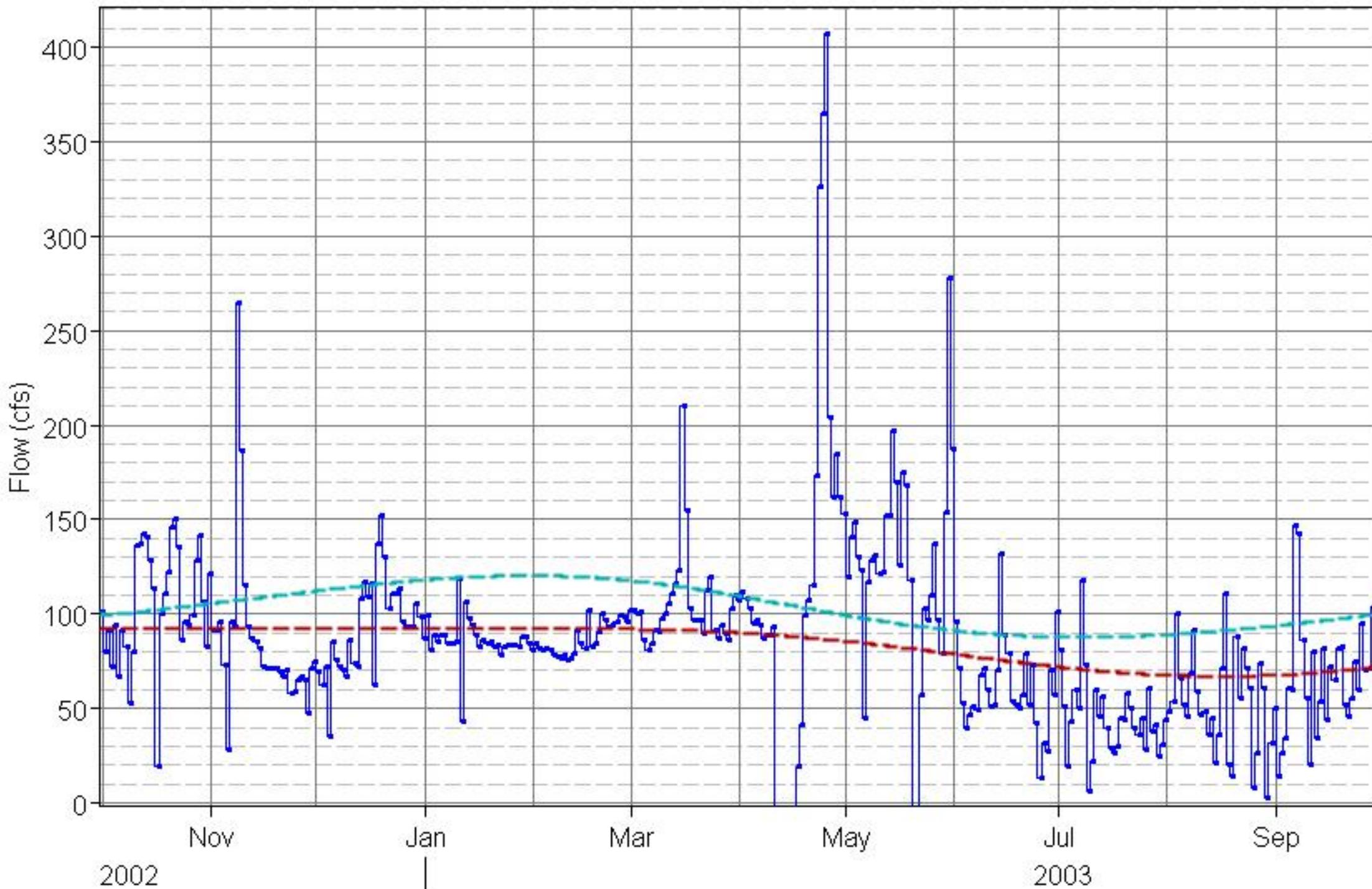


- TUOLUMNE ACCRETION COMPUTED FLOW
- TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- TUOLUMNE ACCRETION SYNTHETIC FLOW



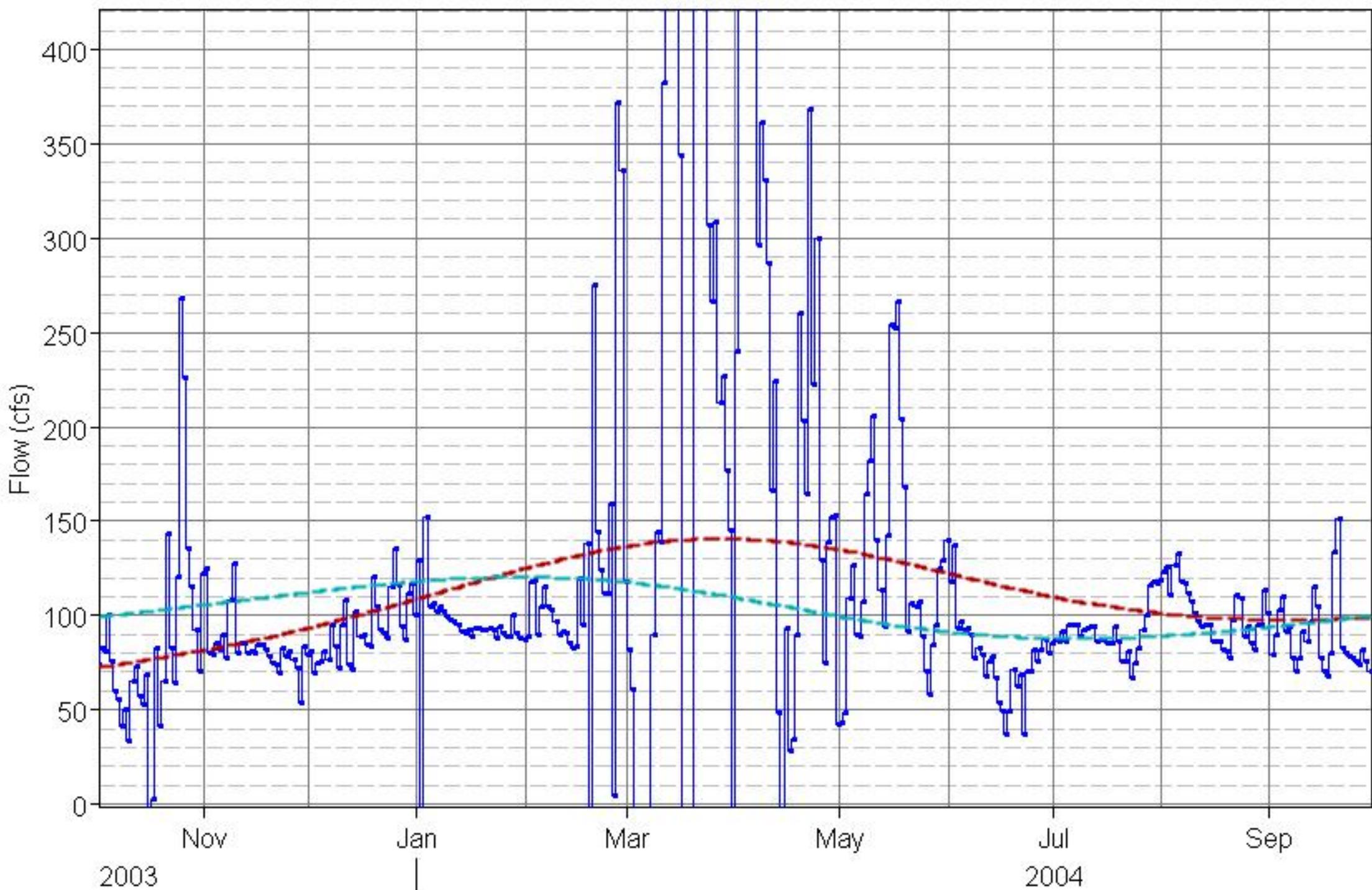
- TUOLUMNE ACCRETION COMPUTED FLOW
- TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- TUOLUMNE ACCRETION SYNTHETIC FLOW

WY 2003 - Median Below Normal

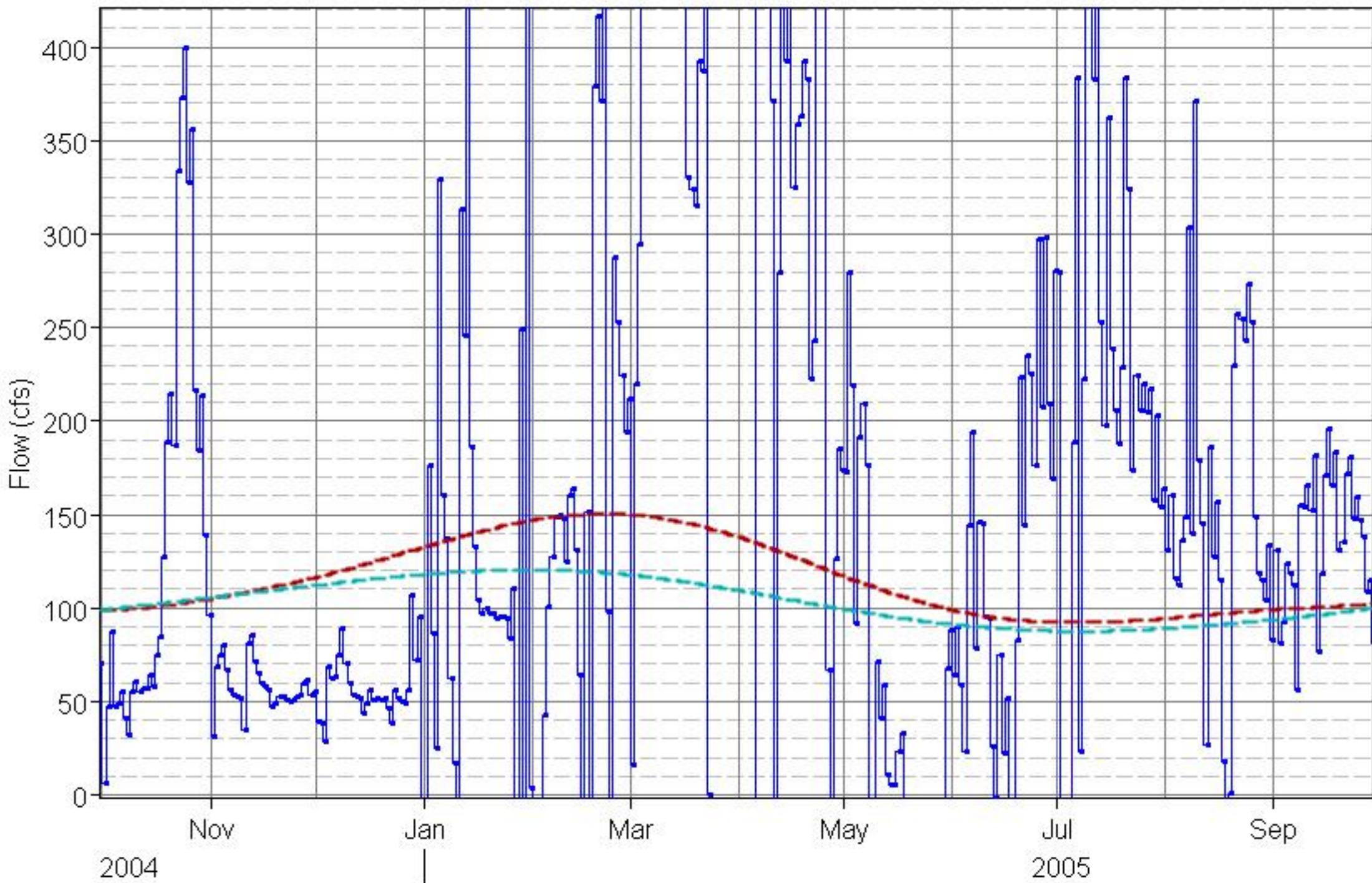


- TUOLUMNE ACCRETION COMPUTED FLOW
- TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- TUOLUMNE ACCRETION SYNTHETIC FLOW

WY 2004 - Median Dry

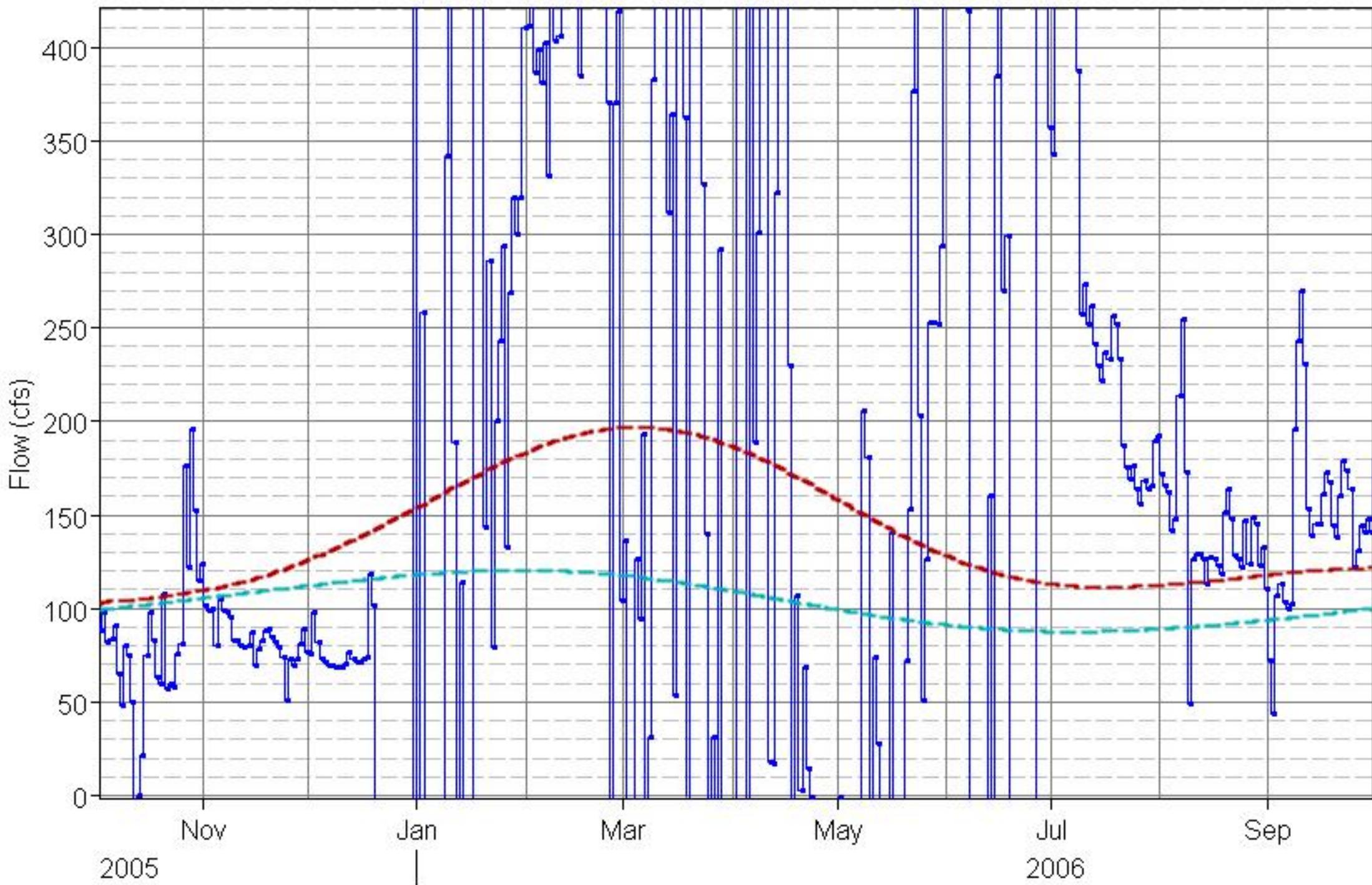


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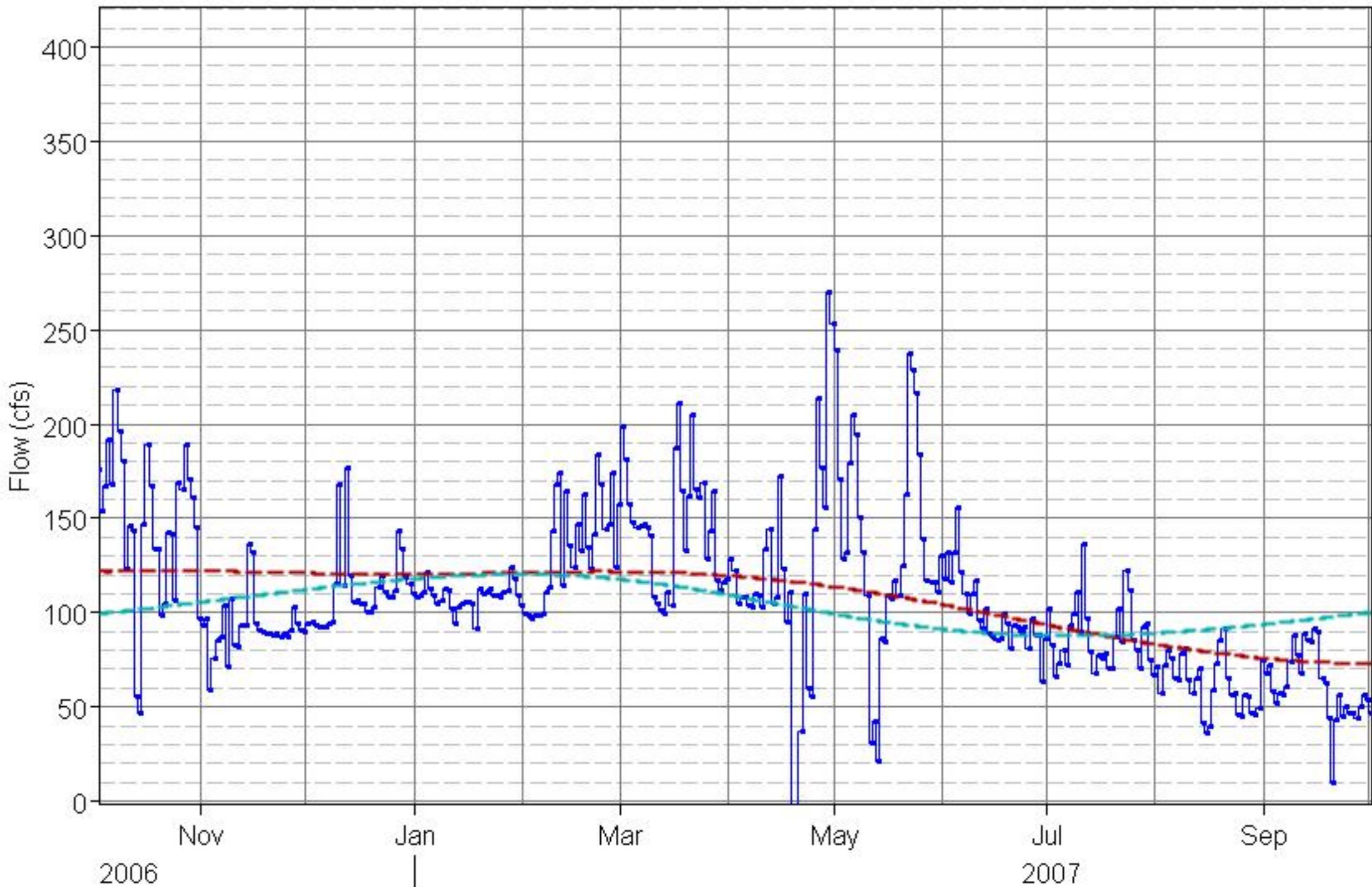


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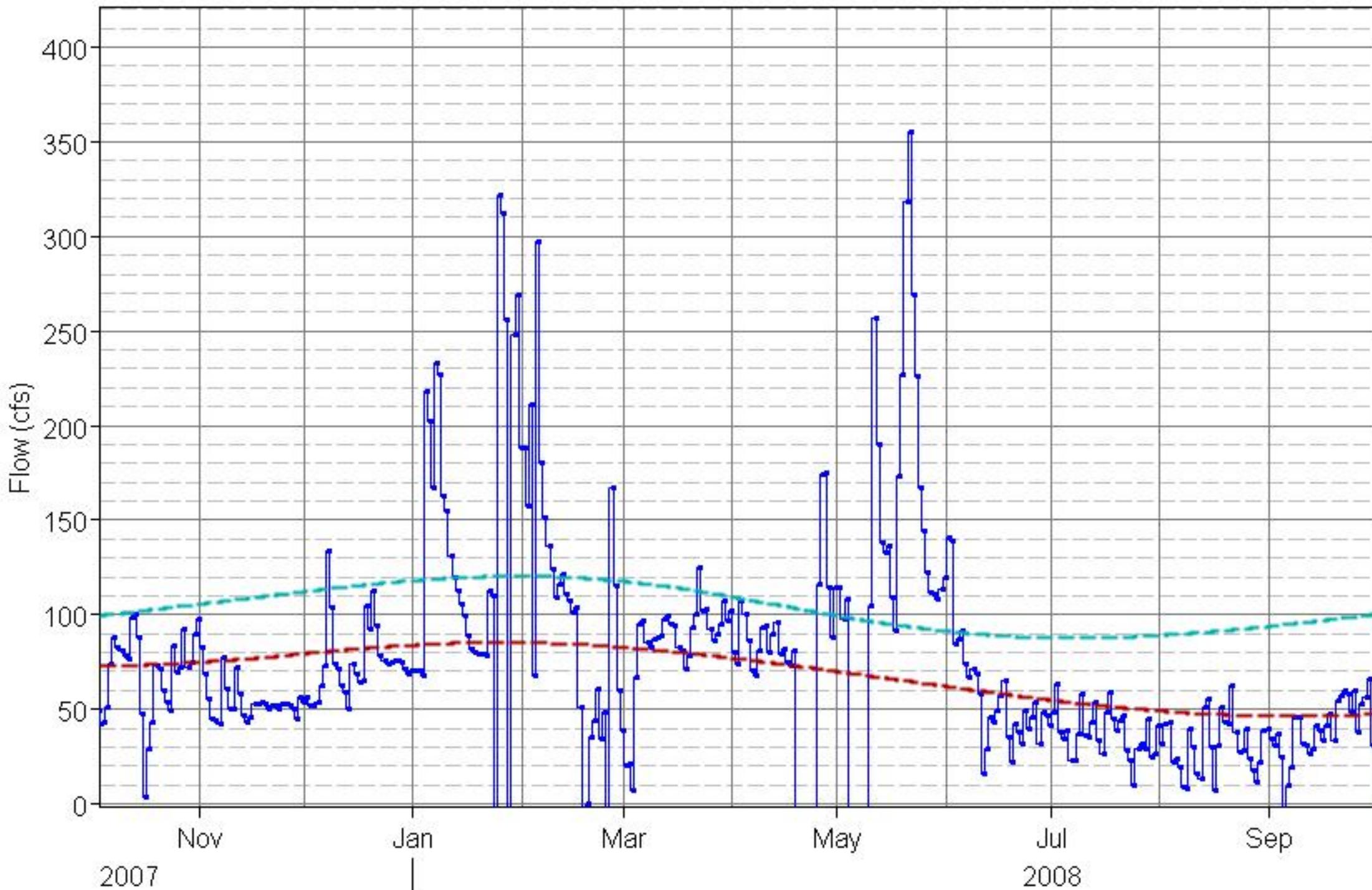
WY 2006 - Median Wet/Maximum



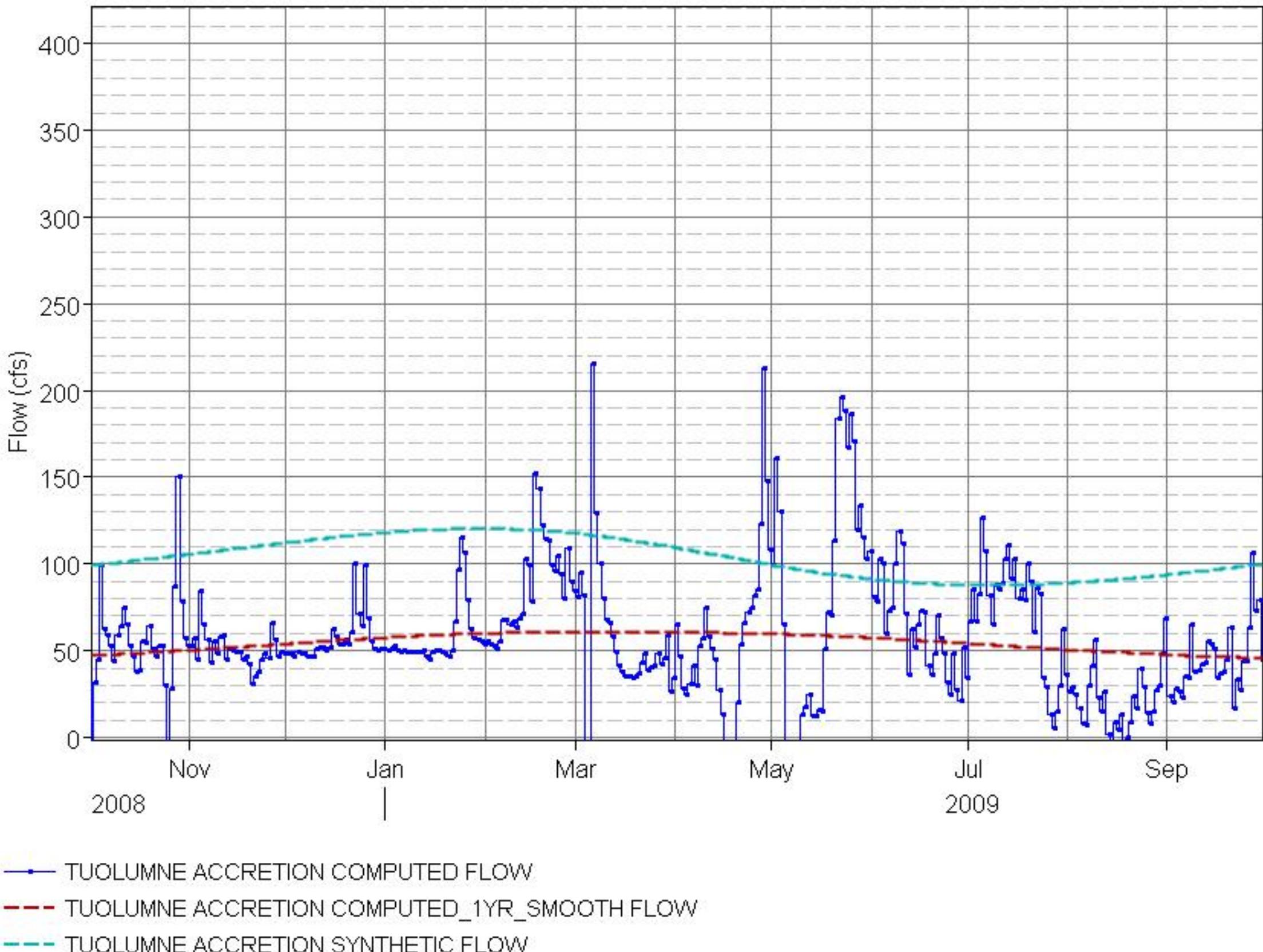
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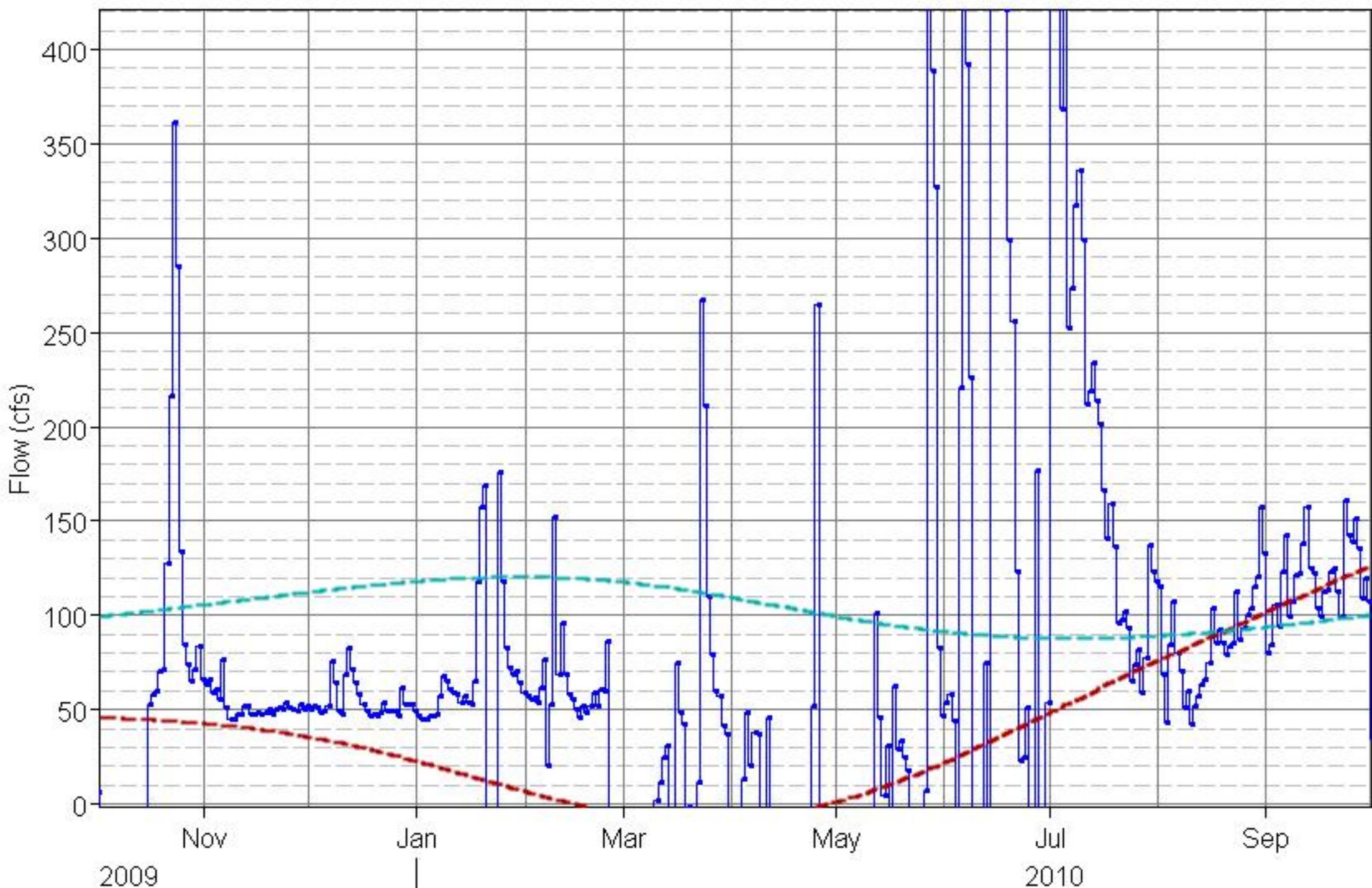


- TUOLUMNE ACCRETION COMPUTED FLOW
- - TUOLUMNE ACCRETION COMPUTED_1YR_SMOOTH FLOW
- - TUOLUMNE ACCRETION SYNTHETIC FLOW



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- TUOLUMNE ACCRETION SYNTHETIC FLOW





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Don Pedro Project Relicensing

Hydrologic Investigations Workshop

September 21, 2012

MODESTO IRRIGATION DISTRICT | TURLOCK IRRIGATION DISTRICT



**FERC
PROJECT
No. 2299**





AGENDA



9:00 a.m.- 9:15 a.m.

Introductions & Purpose of Meeting

- Review of Accretion Flow Measurements
Conducted on June 25, 2012**

- Discussion of Hydrologic Analyses
the Districts are Planning to Undertake**



AGENDA



9:15 a.m.-10:30 a.m.

**Discussion of Results and Path Forward
Related to Accretion Flow Measurements
Conducted on June 25, 2012 and
Provided to Relicensing Participants
on July 26, 2012**



AGENDA



10:30 a.m.-11:30 a.m.

**Discussion of Hydrologic Analyses
to be Conducted by the Districts
in Accordance with
FERC's Study Plan Determination
and Dispute Resolution**



AGENDA



- Available Streamflow Data Records/Sources Confirmed by Districts**

- Overview of FERC's Study Plan Determination and Dispute Decision as Relates to Hydrologic Analyses**



AGENDA



- **Statistical Analyses to be Conducted for Existing Project Conditions**
 - Average, maximum and minimum monthly flows for 1971-2009, 1996-2009, and by water year type
 - Annual and monthly flows duration curves for 1971-2009, 1996-2009, and by water year type
 - Average annual flows for 1971-2009 and 1996-2009
 - 1-, 3-, and 7-day maximum mean daily flow for each year of 1971-2009
 - 1-, 3-, and 7-day minimum mean daily flows for each year of 1971-2009
 - Julian date and magnitude of annual maximum and minimum



AGENDA



□ Watershed Locations for Statistical Analyses

- Tuolumne River, inflow to Don Pedro Reservoir
- Tuolumne River just above La Grange Dam
- Turlock Canal near La Grange CA (USGS gage)
- Modesto Canal near La Grange CA (USGS gage)
- Tuolumne River below La Grange Dam near La Grange CA (USGS gage)
- Dry Creek at Modesto (CDWR gage)
- Tuolumne River at Modesto CA (USGS gage)



AGENDA



11:30 a.m.-12:30 p.m.

Other Hydrologic Analyses to be Conducted (these analyses need further clarification and discussion)

- Peak Flow Analysis using log-Pearson type III flood flow frequency for existing conditions and return intervals of 1 to 100 years for Tuolumne River locations above using USGS Regional skew for California**

- Rate of Stage Change Analysis Tuolumne River below La Grange Dam near La Grange CA (USGS gage) for 1971-2009 using 15-minute gage records**



June 6 Memo to RPs Proposed Measurement Locations



ONE COMPANY
Many SolutionsSM

Memo

To: Don Pedro Relicensing Participants
From: Turlock Irrigation District / Modesto Irrigation District Project: Don Pedro Hydroelectric Project
Date: June 6, 2012

**RE: Study W&AR 2 Operations Model
Action Item from April 9, 2012, Hydrology Workshop
Proposed Lower Tuolumne Flow Accretion and Depletion Measurement Locations**

In accordance with our Study Plan W&AR-2 (November 22, 2011), the FERC Study Plan Determination (December 22, 2011), and the most recent FERC Study Dispute Determination (May 24, 2012), we are planning to undertake between June 25 and 29, 2012, flow measurements along the lower Tuolumne River between La Grange Gage and the San Joaquin River confluence, as well as within Dry Creek, to develop estimates of flow accretions and/or depletions (Table 1 and Figure 1). Using accepted flow measurement methodologies, flows will be measured at permanent gage locations, established Instream Flow Incremental Methodology (IFIM) transect locations, and other sites where flow changes may be discernible. Fieldwork will consist of direct measurement of in-channel discharge at ten locations when flows of 100 cubic feet per second are scheduled, as well as opportunistic flow data acquisition at six additional irrigation canal outflow locations, if outflows are occurring. Discharge at each site will be measured using standard methods for collecting data in wadeable streams (Rantz 1982). Depths and mean column water velocities will be measured across each transect using the same methods as used in the co-occurring IFIM stream habitat assessment (Stillwater Sciences 2009). Where transects have a series of water depths greater than approximately 3.5 feet, depth and velocity may be measured using Acoustic Doppler Current Profiler methods (e.g., Simpson 2002). *Please provide suggestions or comments on this plan to John Devine (john.devine@hdrinc.com) by Wednesday, June 20th.* This data is targeted to be compiled, checked, and then shared with Relicensing Participants by the first week in August.



June 6 Memo to RPs

Locations



Table 1. Flow measurement and data acquisition June 2012.

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2	Lateral No. 5 (MID) ¹

¹Opportunistic site. Flow data provided by MID if outflow is occurring during study period

²Opportunistic site. Flow data provided by TID if outflow is occurring during study period



June 6 Memo to RPs

Map of Site Locations

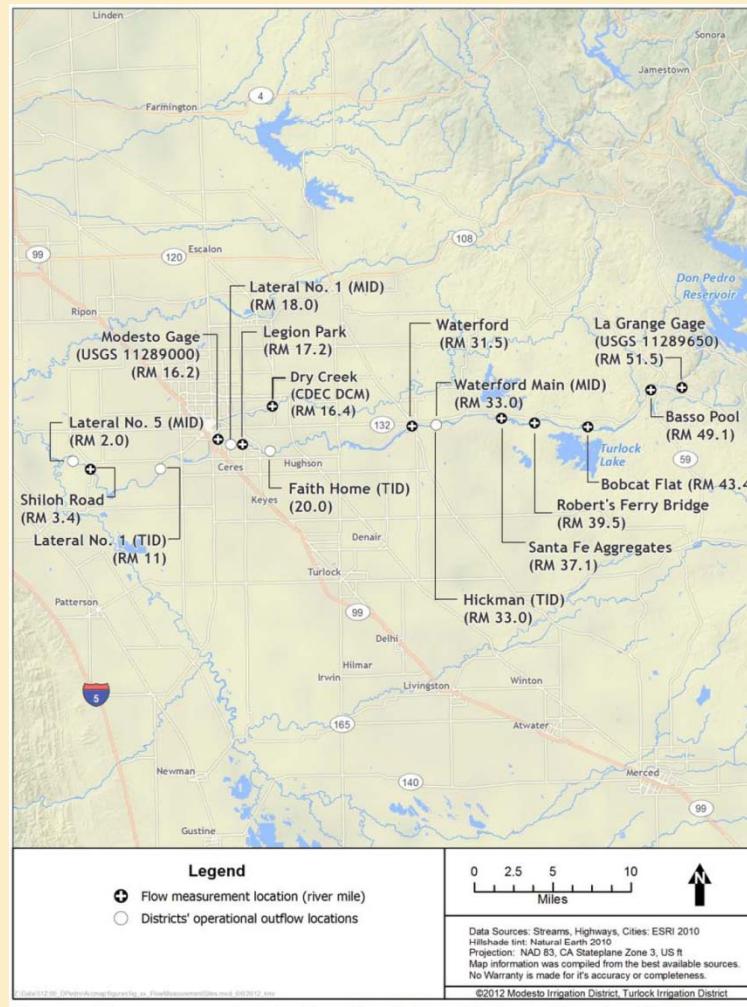


Figure 1. Flow measurement site locations along the lower Tuolumne River, June 2012.



June 6 Memo to RPs

References



References

- Rantz, S.E. 1982. Measurement and computation of streamflow: volume 1. Measurements of stage and discharge. USGS Water Supply Paper 2175. U.S. Geological Survey.
- Stillwater Sciences. 2009. Tuolumne River Instream Flow Studies. Final Study Plan. Prepared by Stillwater Sciences, Davis, California for Turlock Irrigation District and Modesto Irrigation Districts, California.
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Tuolumne River & Dry Creek Flow Measurements 6-25-2012

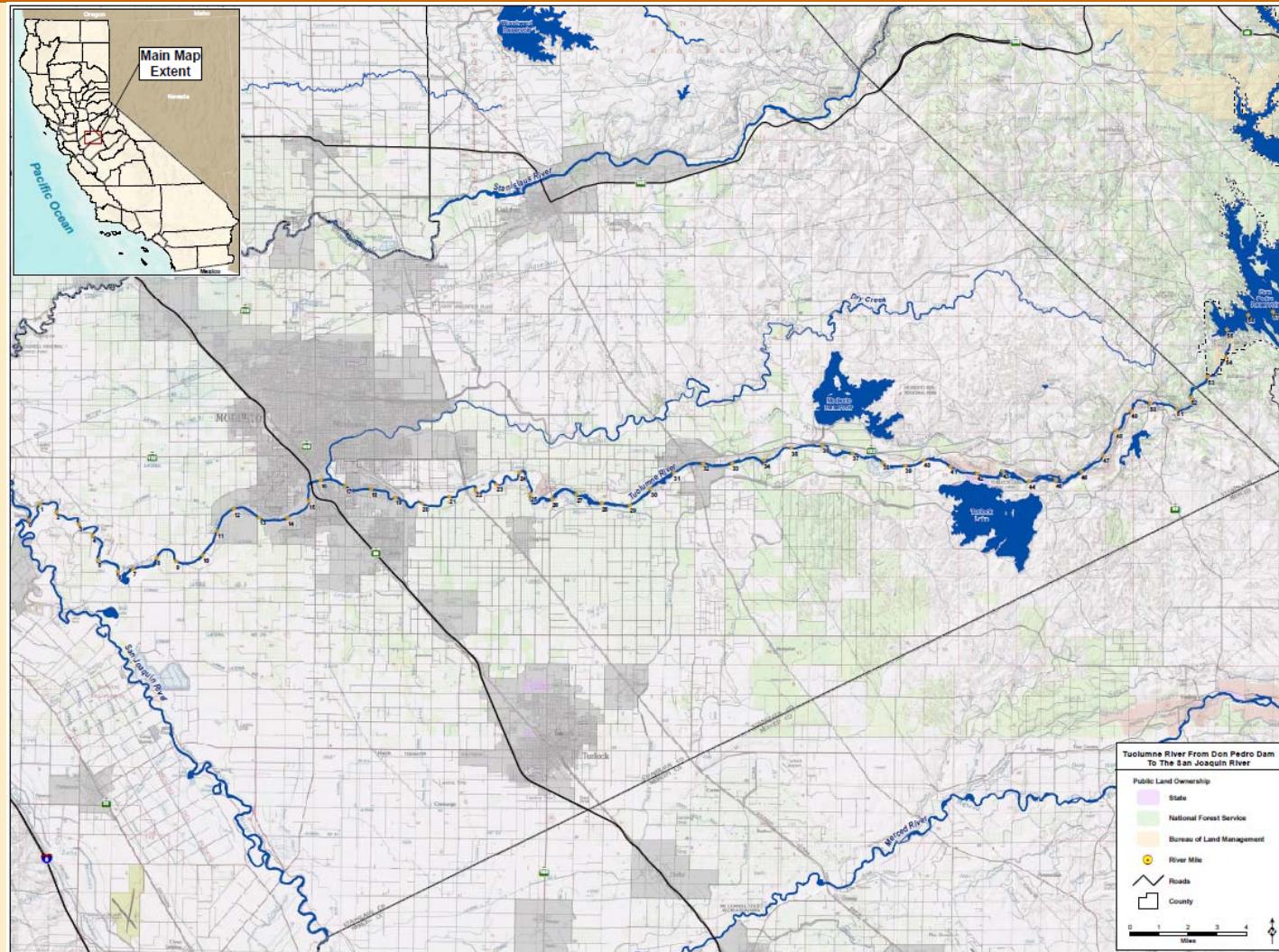


Site	Date	Dry Creek River Mile	Tuolumne River Mile	Time (military)	Field Measurements ^a				Discharge (ft ³ /sec)	Difference between Gage & Measured ^b (%)	
					Measured Discharge (ft ³ /sec)						
					Start	End	Q1 ^c	Q2	Q3	Avg	
Tuolumne River at La Grange gage house	6/25/12	--	51.5	0950	1120	119.2	110.6	--	114.9	114.9	--
Tuolumne River at La Grange (USGS 11289650) ^d	6/25/12	--	51.5	0945	1130	--	--	--	--	130	12
Tuolumne River at La Grange (CDEC LGN) ^e	6/25/12	--	51.5	0000	2345	--	--	--	--	94	22
Tuolumne River at Bass Pool	6/25/12	--	49.1	1325	1440	101.3	103.7	--	102.5	102.5	--
Tuolumne River at Bobcat Flat	6/25/12	--	43.4	1300	1625	93.3	105.5	99.0	99.2	99.2	--
Tuolumne River at Roberts Ferry Bridge	6/25/12	--	39.5	1535	1635	128.6	122.4	--	125.5	125.5	--
Tuolumne River at Santa Fe Aggregates	6/25/12	--	37.1	1720	1830	119.1	126.0	--	122.5	122.5	--
Waterford Main (MID) ^f	6/25/12	--	33	1800	2000	--	--	--	--	8	--
Hickman Spill (TID) ^g	6/25/12	--	33	0000	2345	--	--	--	--	0	--
Tuolumne River at Waterford	6/25/12	--	31.5	1834	1932	122.0	118.5	--	120.2	120.2	--
Tuolumne River at Delaware Road ^h	6/29/12	--	30.5	1045	1230	138.7	138.1	--	138.4	138.4	--
Faith Home Spill (TID) ⁱ	6/25/12	--	20	0000	2345	--	--	--	--	0	--
Lateral No. 1 (MID) ^j	6/25/12	--	18	1115	1230	--	--	--	--	1	--
Tuolumne River at Legion Park	6/25/12	--	17.2	1115	1230	169.1	181.6	--	175.4	175.4	--
Dry Creek (CDEC DCM) ^k	6/25/12	5.3	16.4	0000	2345	--	--	--	--	38	--
Dry Creek ^l	6/25/12	0.0	16.4	0915	1015	56.4	54.7	--	55.5	55.5	46 ^k
Tuolumne River at Modesto 9th St. Bridge	6/25/12	--	16.2	1300	1400	204.2	212.1	--	208.2	208.2	--
Tuolumne River at Modesto (USGS 11290000) ^d	6/25/12	--	16.2	1300	1400	--	--	--	--	219	5
Tuolumne River at Modesto (CDEC MOD) ^e	6/25/12	--	16.2	0000	2345	--	--	--	--	216	4
Lateral 1 (TID) ^g	6/25/12	--	11	0000	2345	--	--	--	--	0	--
Tuolumne River at Shiloh Bridge	6/25/12	--	3.7	1530	1700	241.3	251.3	--	246.3	246.3	--
Lateral No. 5 (MID) ^j	6/25/12	--	2	0900	2000	--	--	--	--	26.5	--

- not measured or not applicable



Tuolumne River Don Pedro to San Joaquin River





Summer & Winter Flow Trends

Years 2007 - 2011



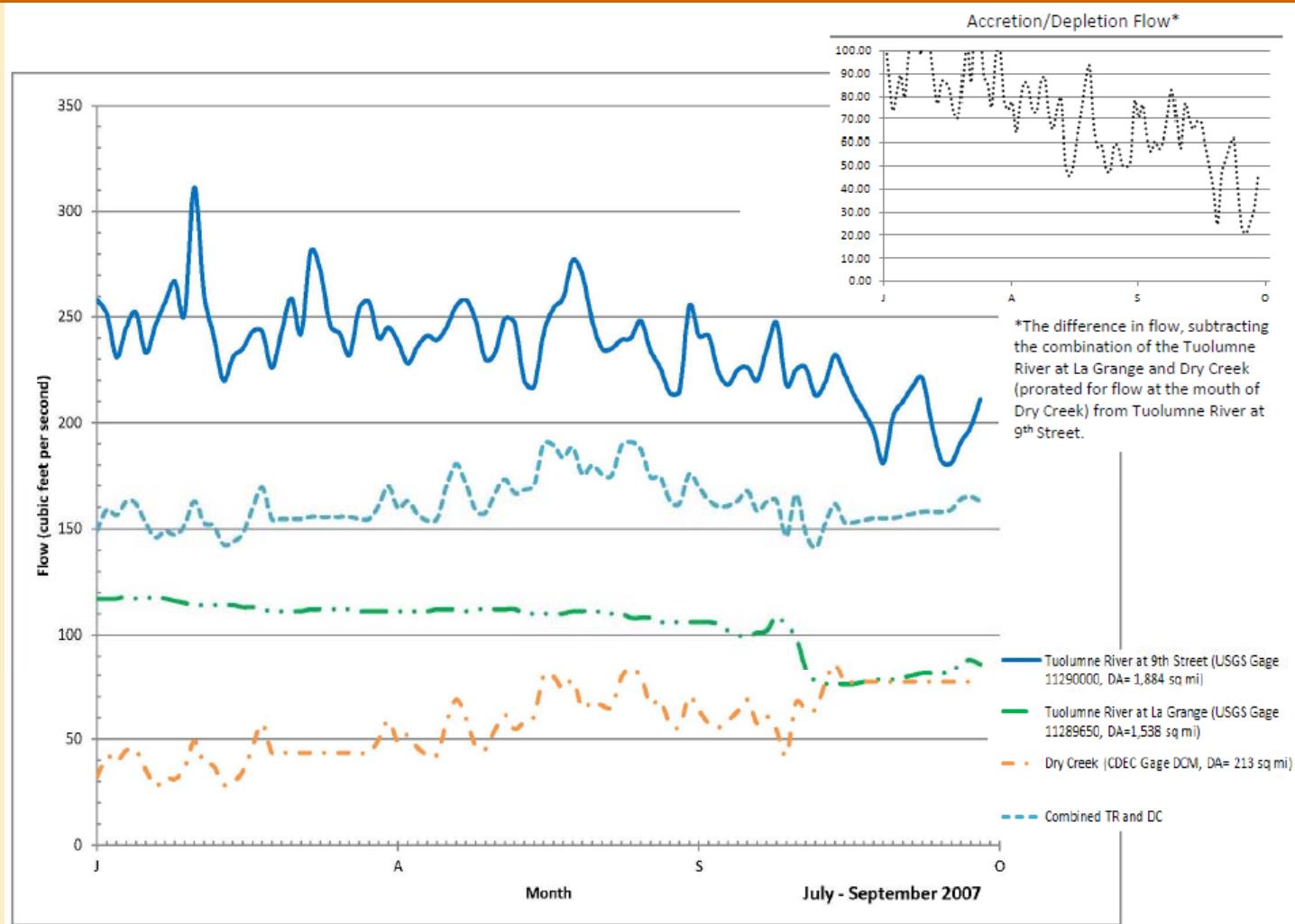
Summer and winter flow trends for years 2007 to 2011, showing flow records from the Tuolumne River USGS Gage 11290000 at Modesto/9th Street, Tuolumne River USGS Gage 11289650 just downstream of La Grange, and Dry Creek CDEC Gage DCM (approximately 5.5 miles upstream from Dry Creek mouth at Modesto).

Also included are accretion/depletion flow trends for each season occurring between La Grange and Modesto on the Tuolumne River, based on subtracting the Tuolumne River La Grange gage and Dry Creek gage (prorated to provide flow at Dry Creek mouth) from the Tuolumne River 9th Street gage flow.



Summer Flow Trends

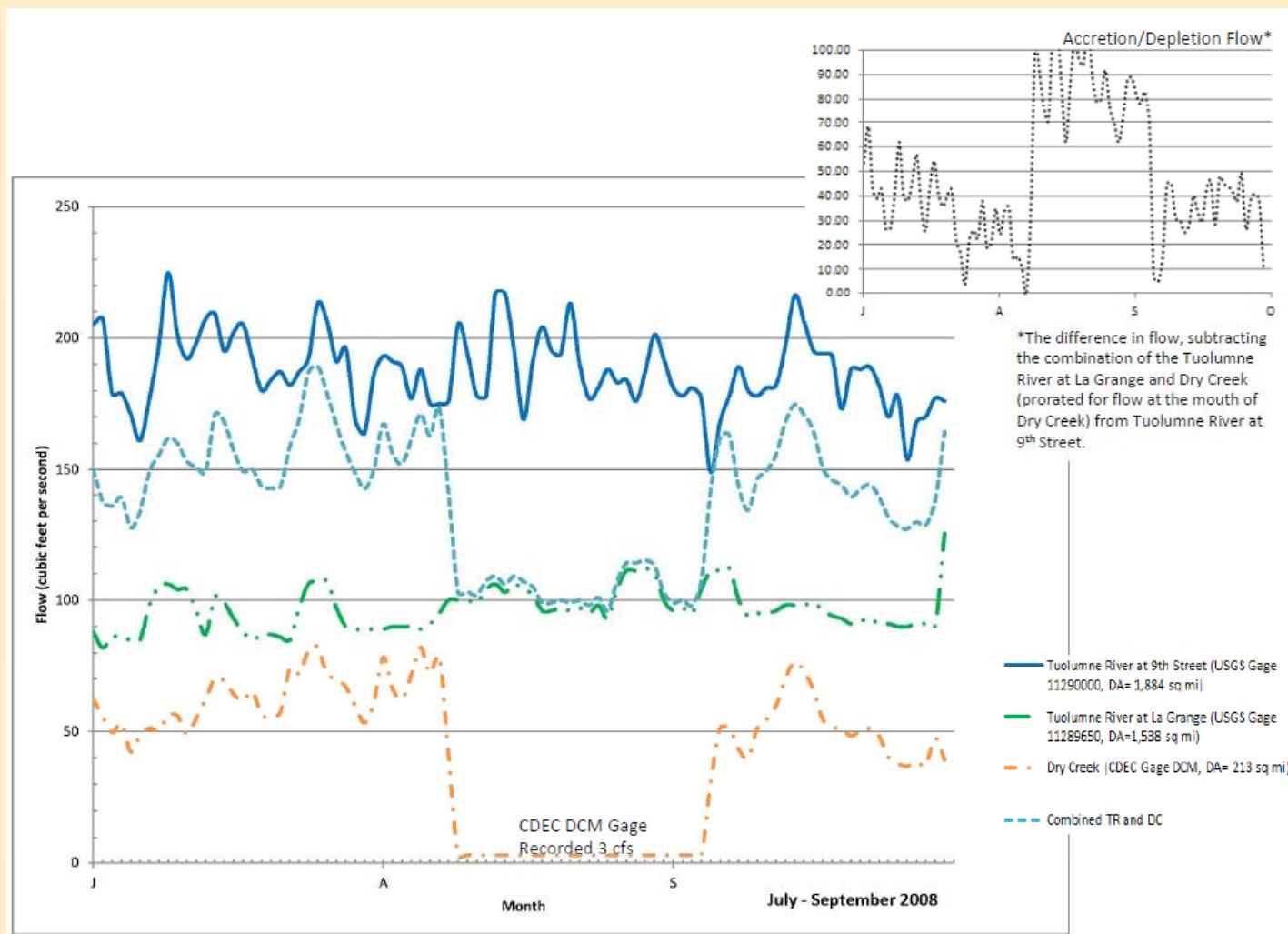
July – September 2007





Summer Flow Trends

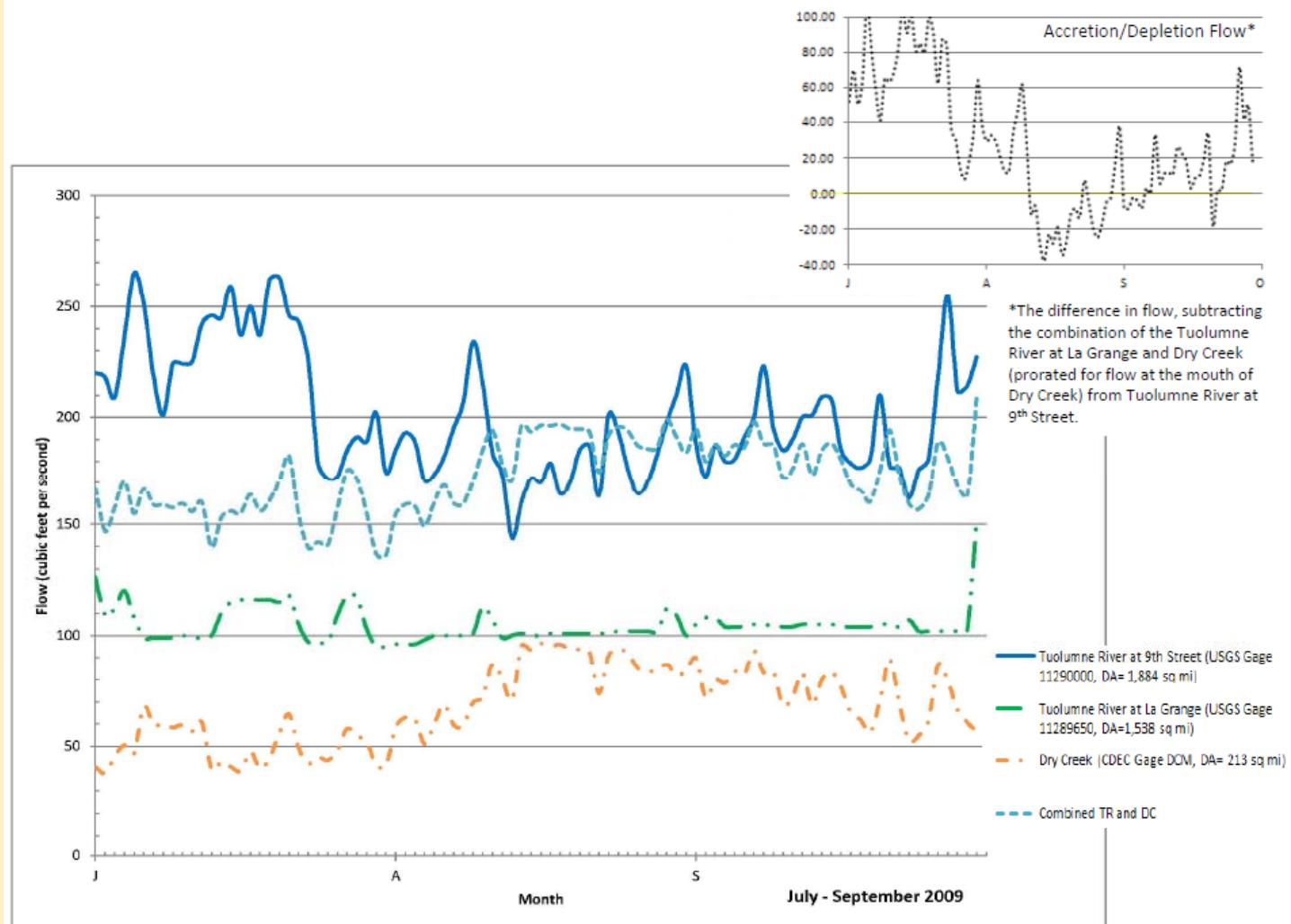
July – September 2008





Summer Flow Trends

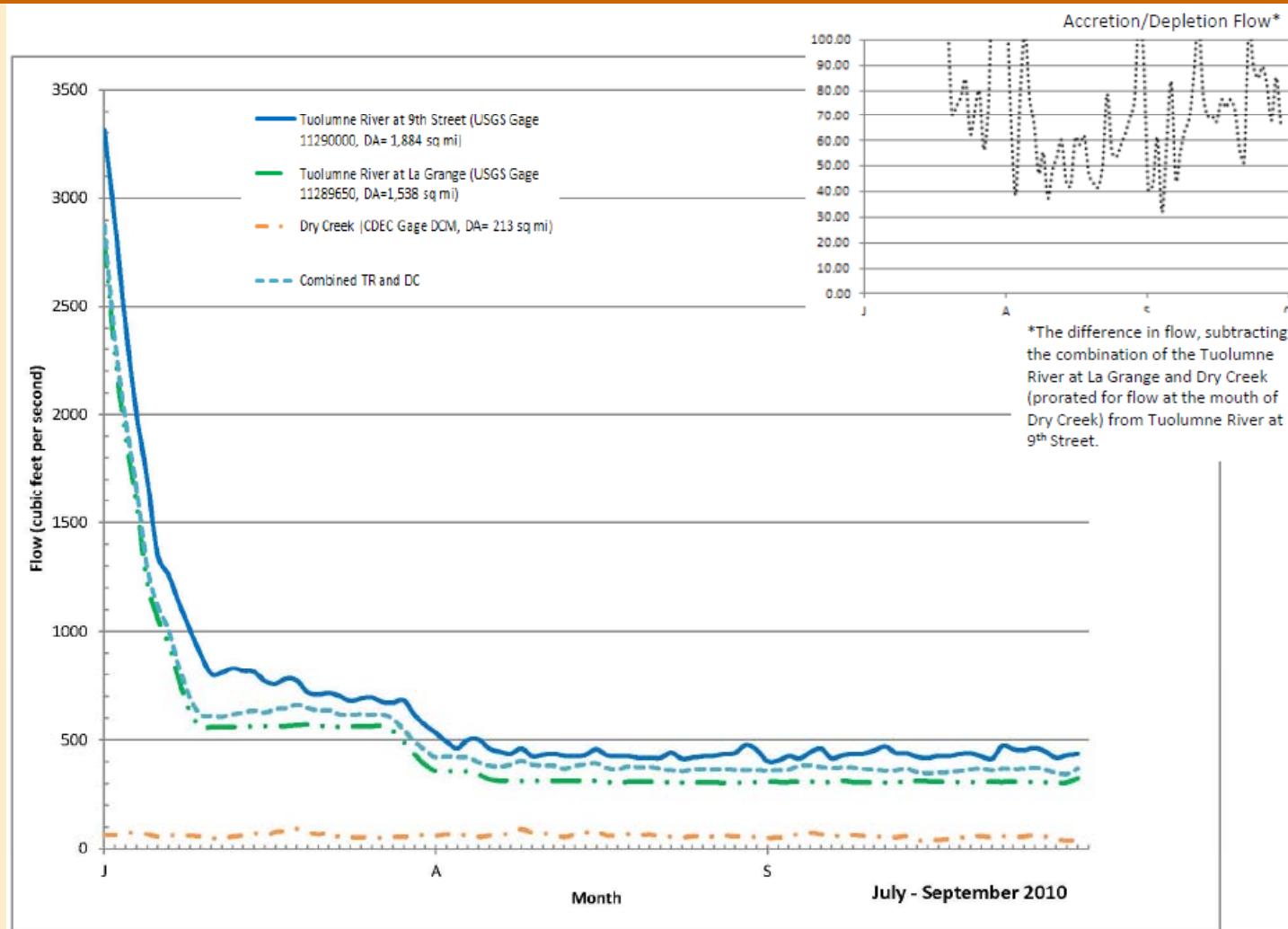
July – September 2009





Summer Flow Trends

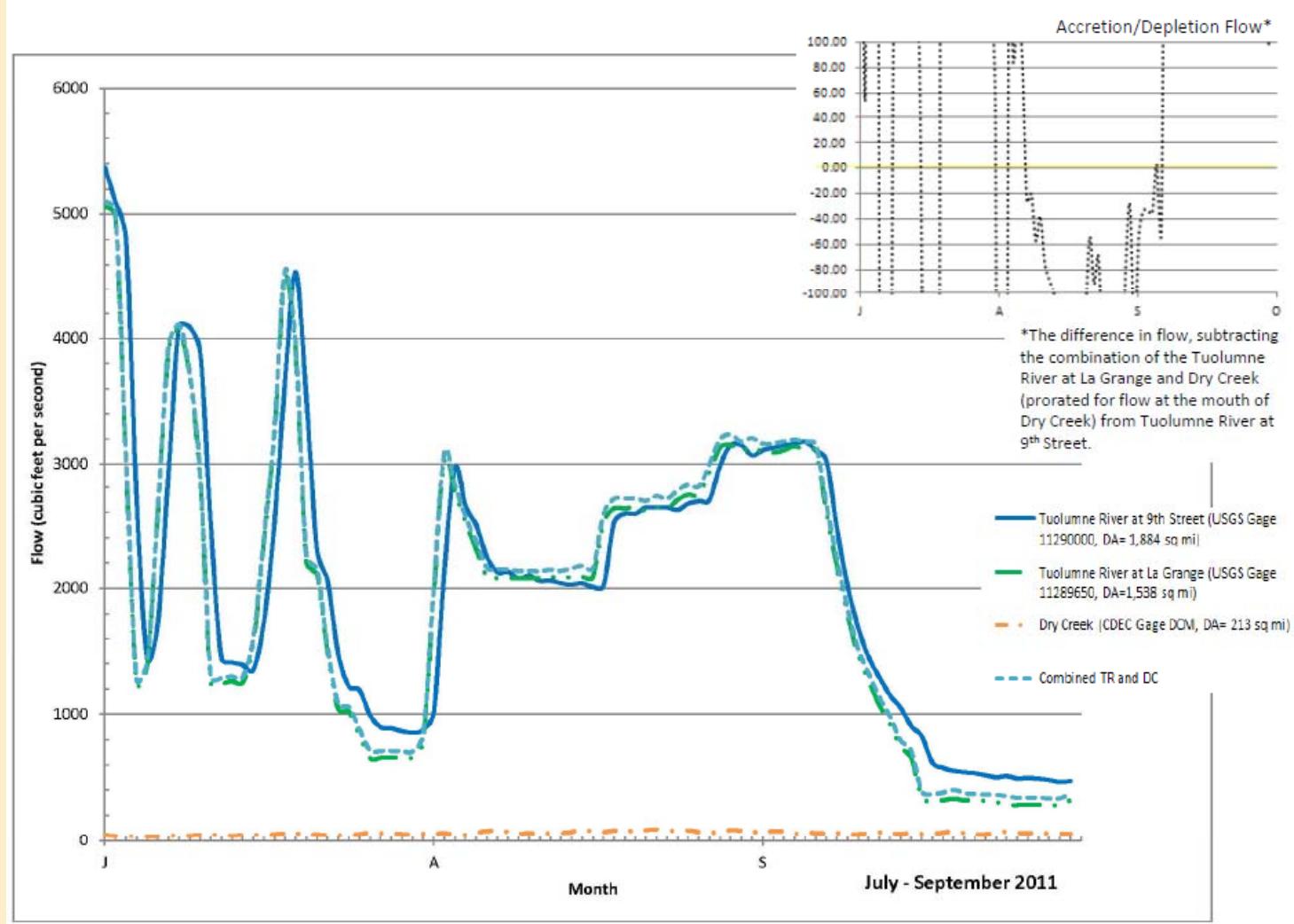
July – September 2010





Summer Flow Trends

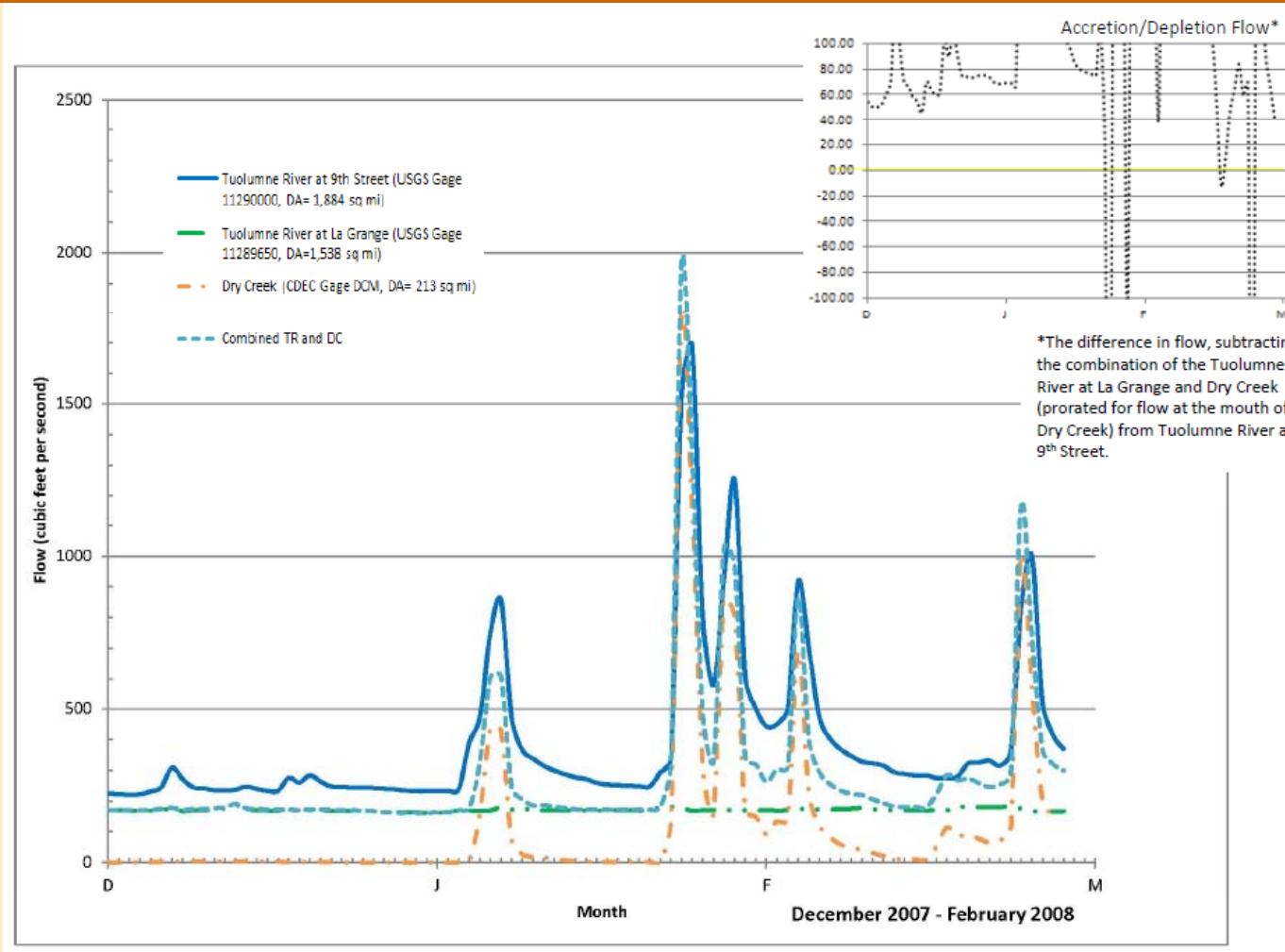
July – September 2011





Winter Flow Trends

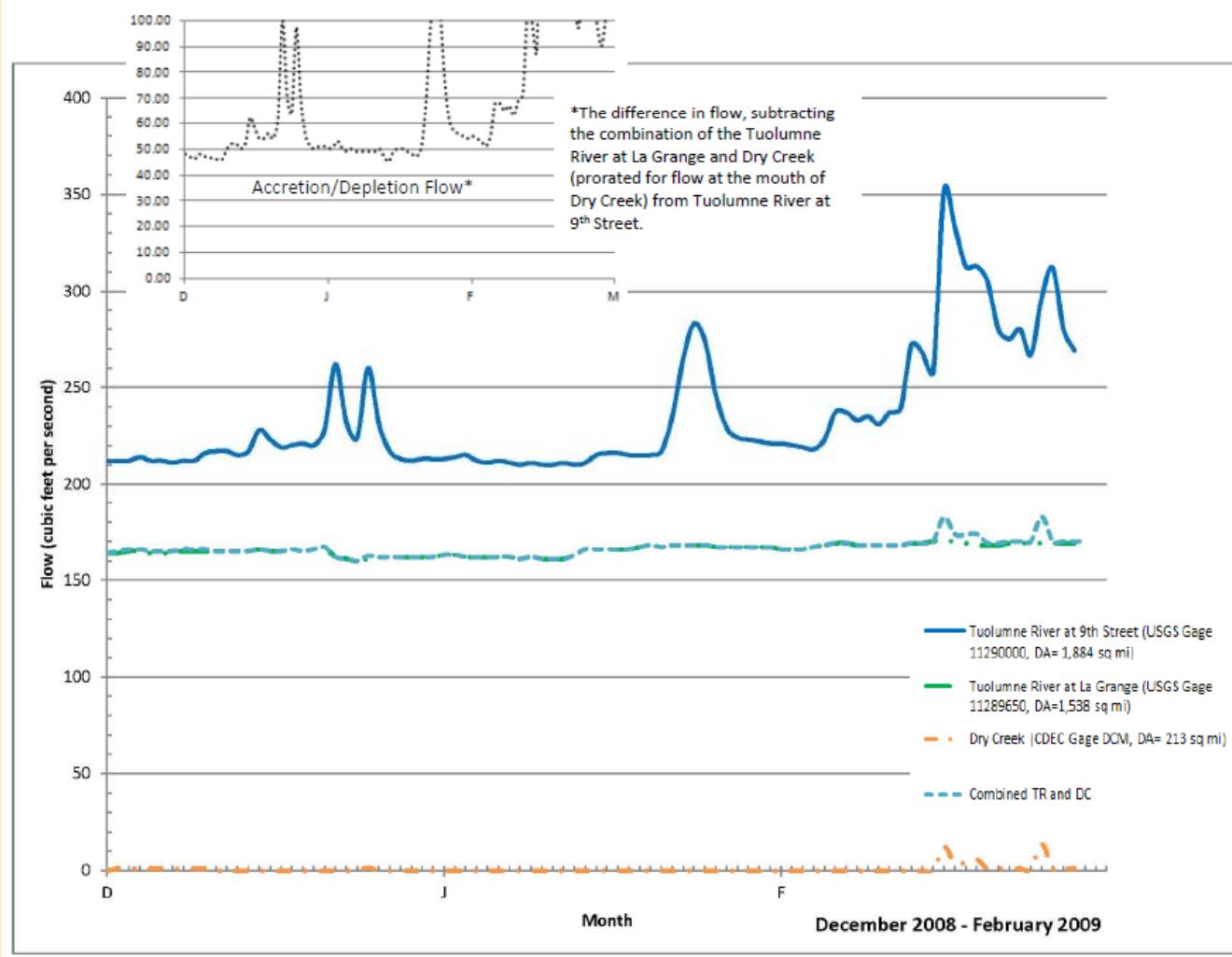
December 2007 – February 2008





Winter Flow Trends

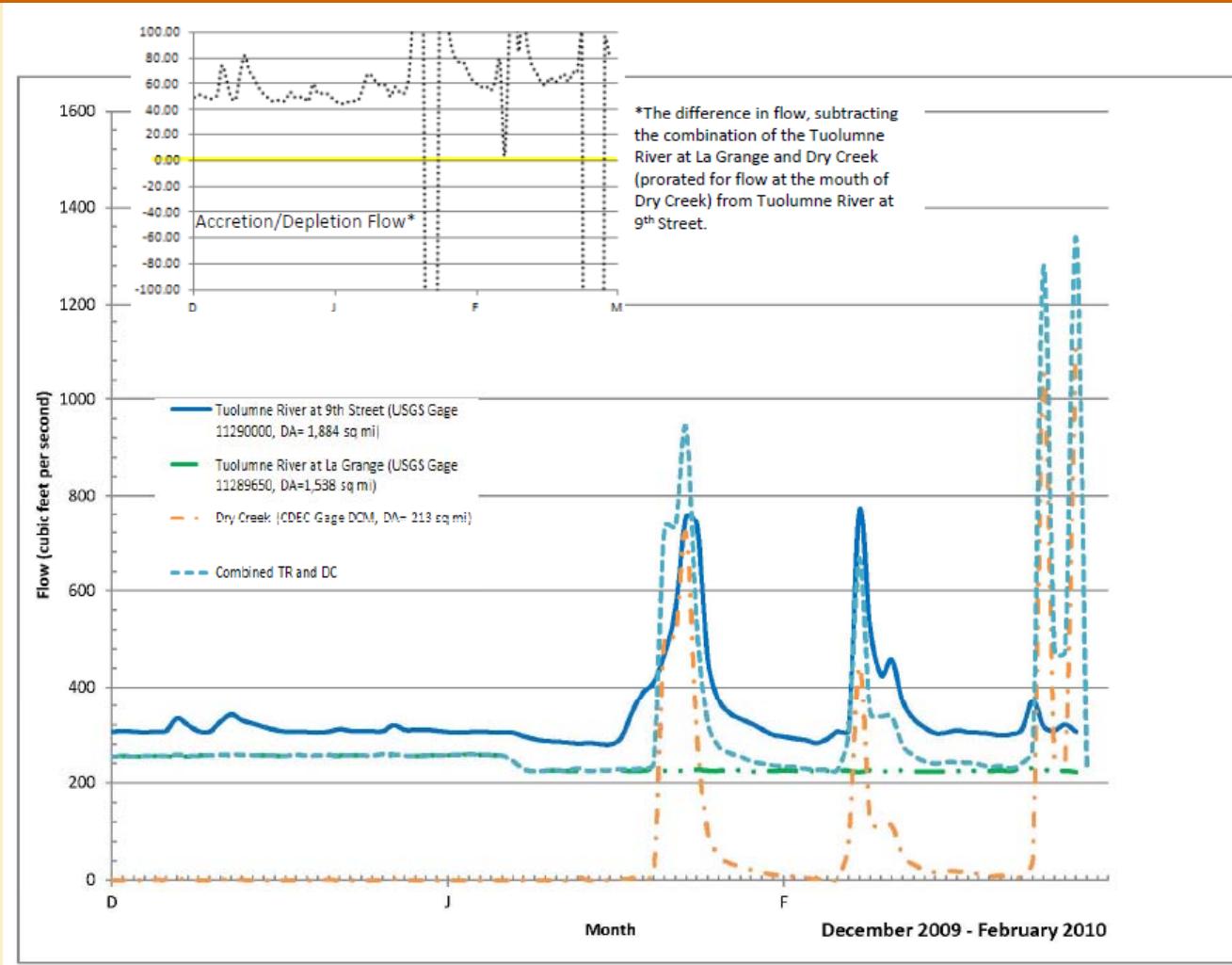
December 2008 – February 2009





Winter Flow Trends

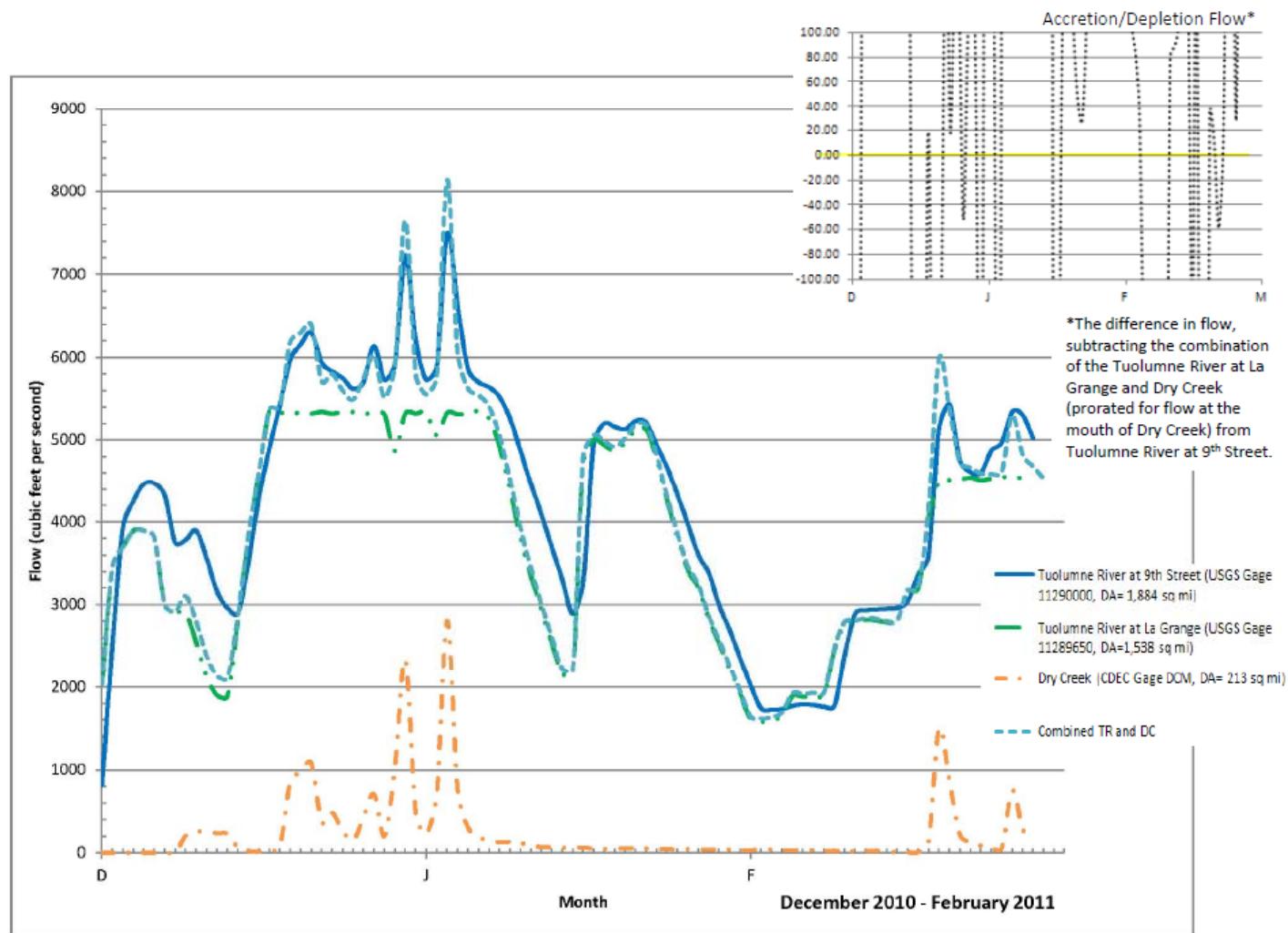
December 2009 – February 2010





Winter Flow Trends

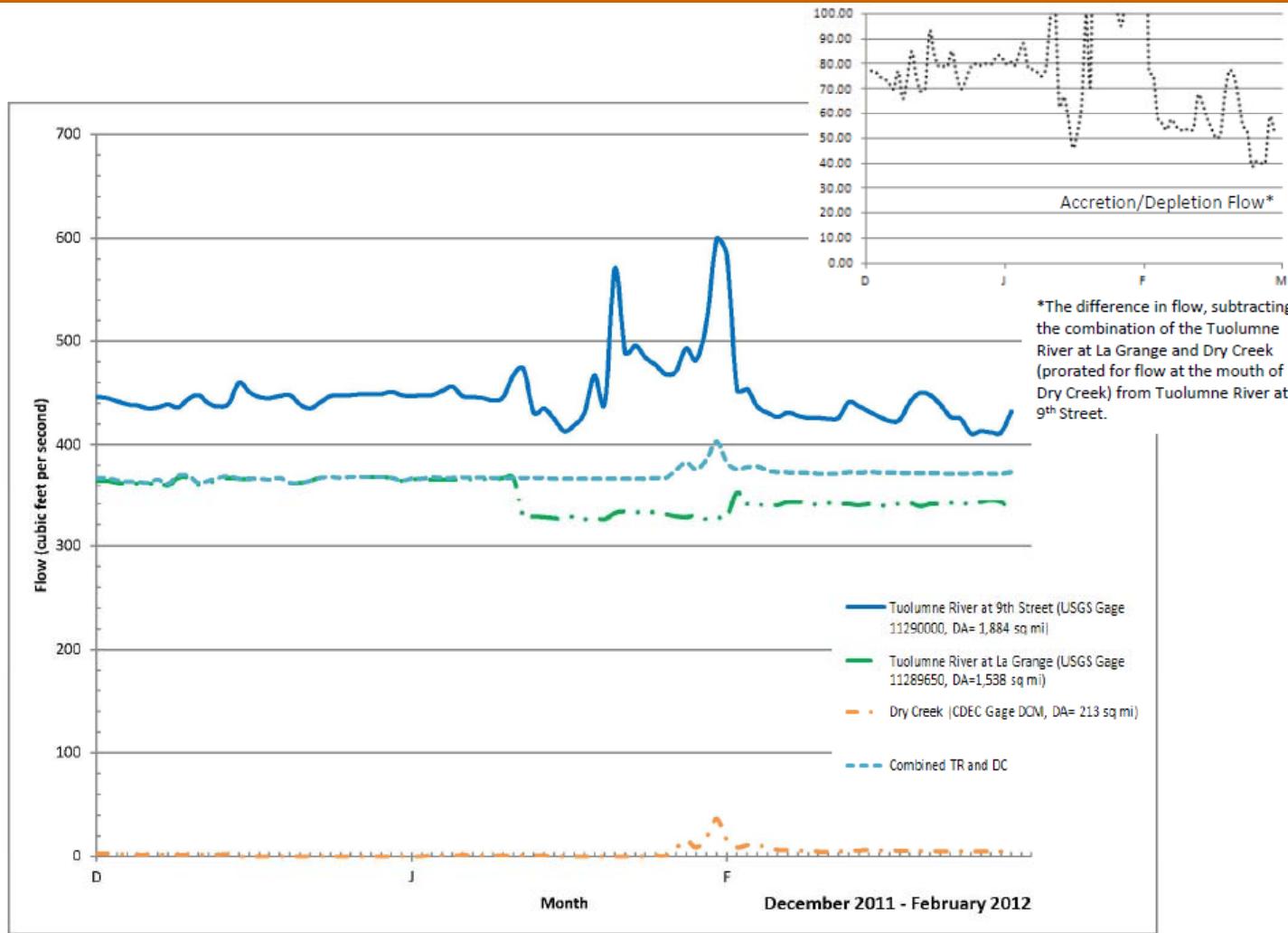
December 2010 – February 2011





Winter Flow Trends

December 2011 – February 2012





Lower Tuolumne Gage Calculations

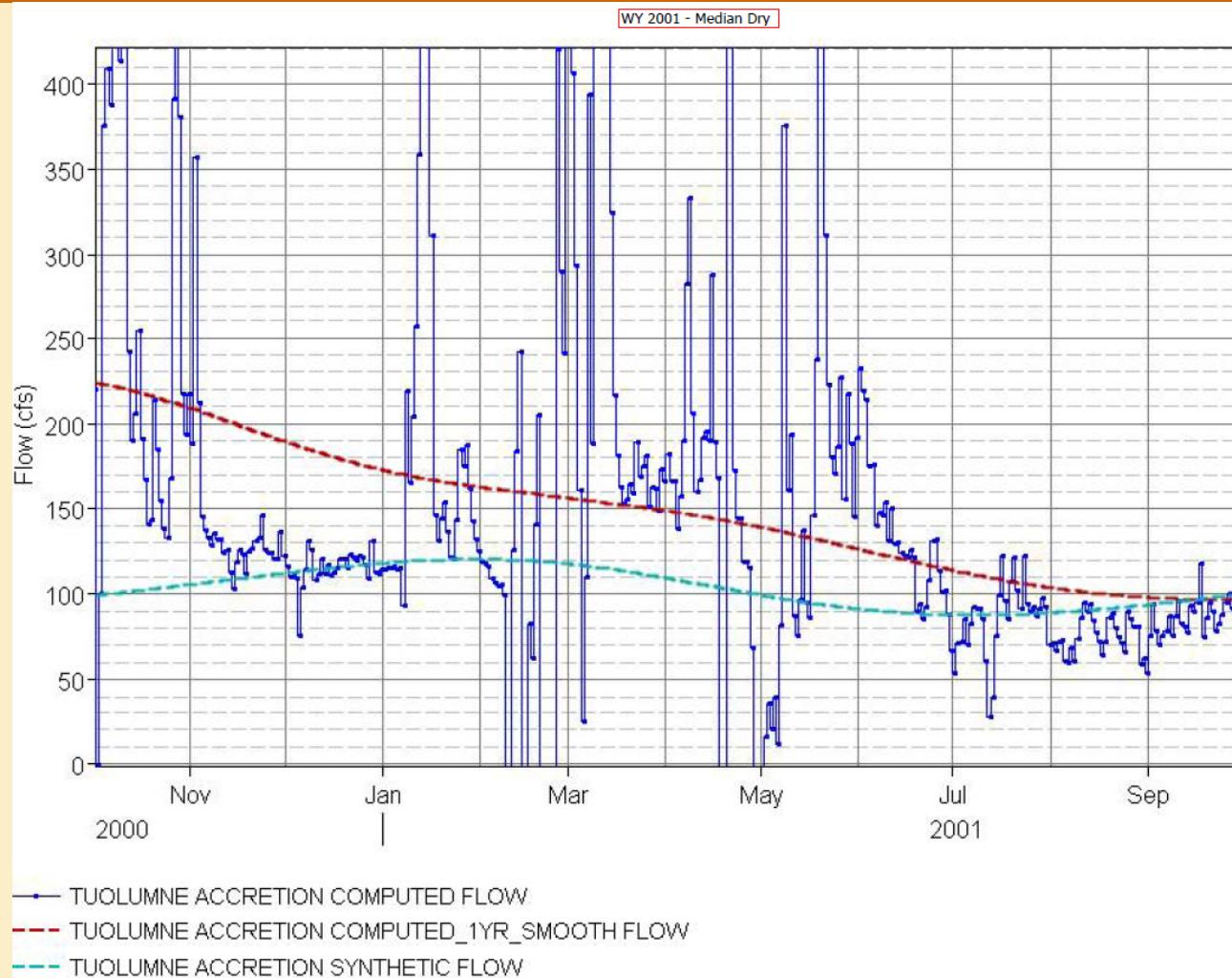
Water Years 2001-2010



Plots of the lower Tuolumne gage calculation for water years 2001 to 2010. Note the water year type is at the top of each page. The light blue dashed line is the synthetic dataset (consistent year-to-year), and the dashed dark red line is 1-year Gaussian smoothed gage data.

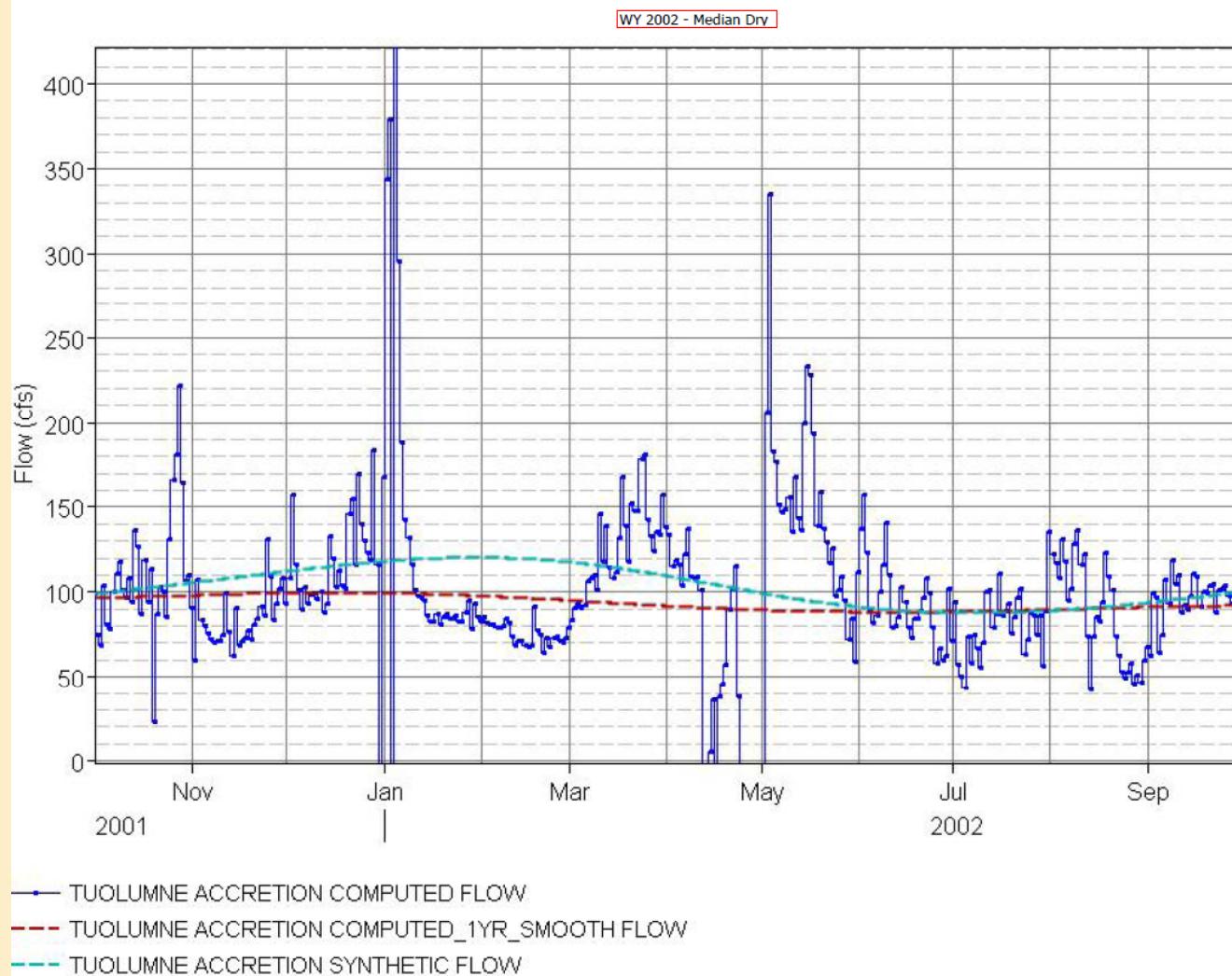


Lower Tuolumne Gage Calculations Water Year 2001



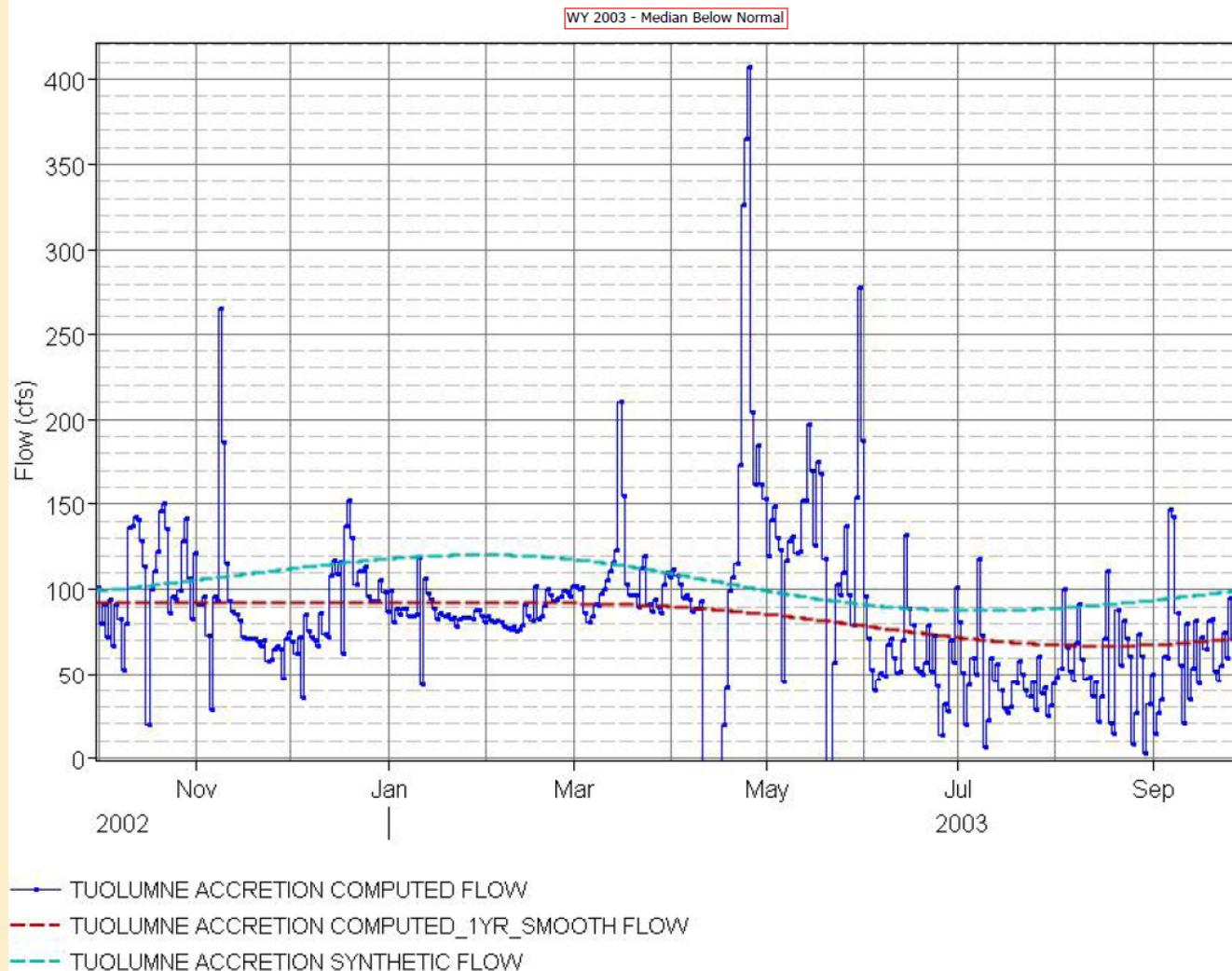


Lower Tuolumne Gage Calculations Water Year 2002



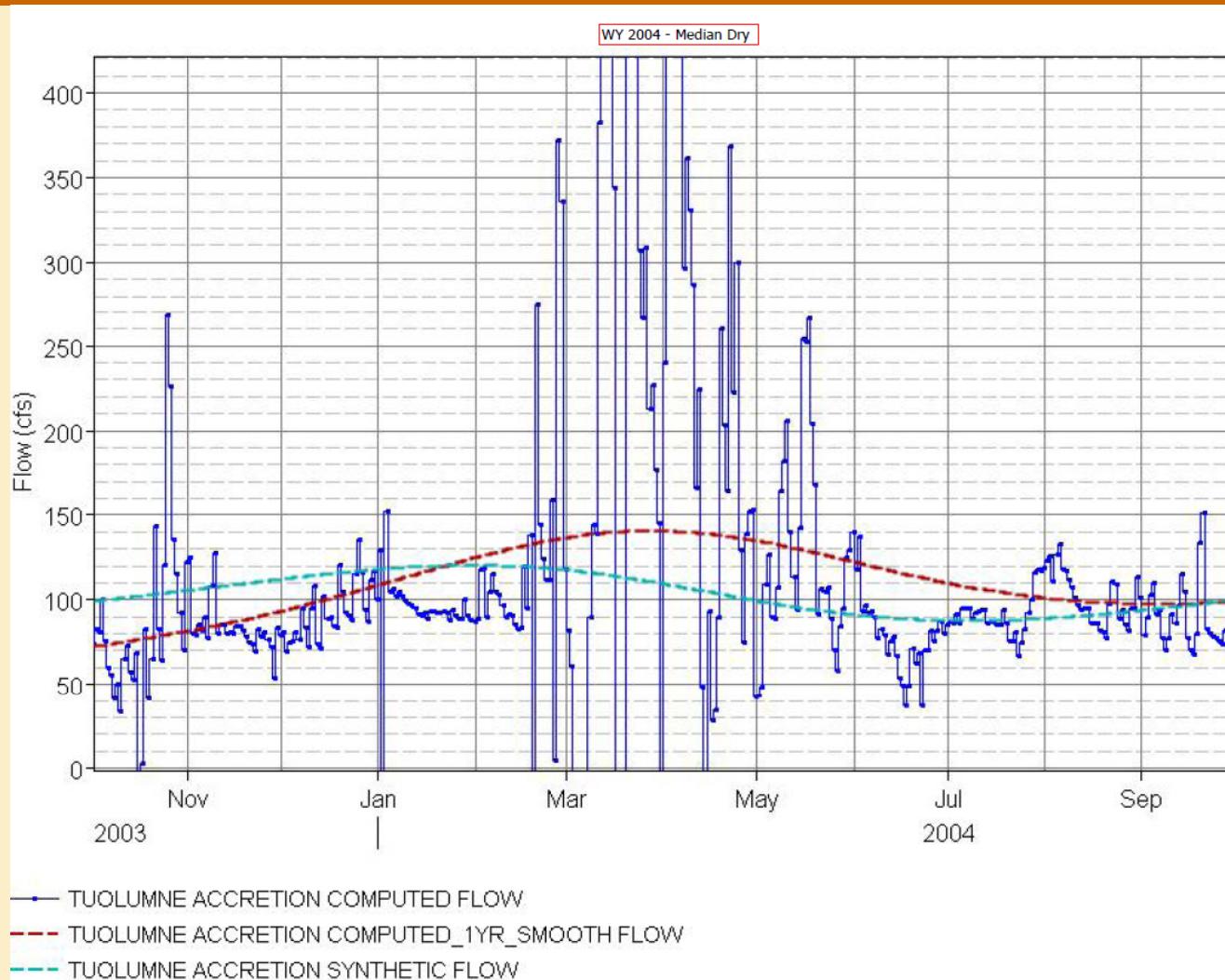


Lower Tuolumne Gage Calculations Water Year 2003



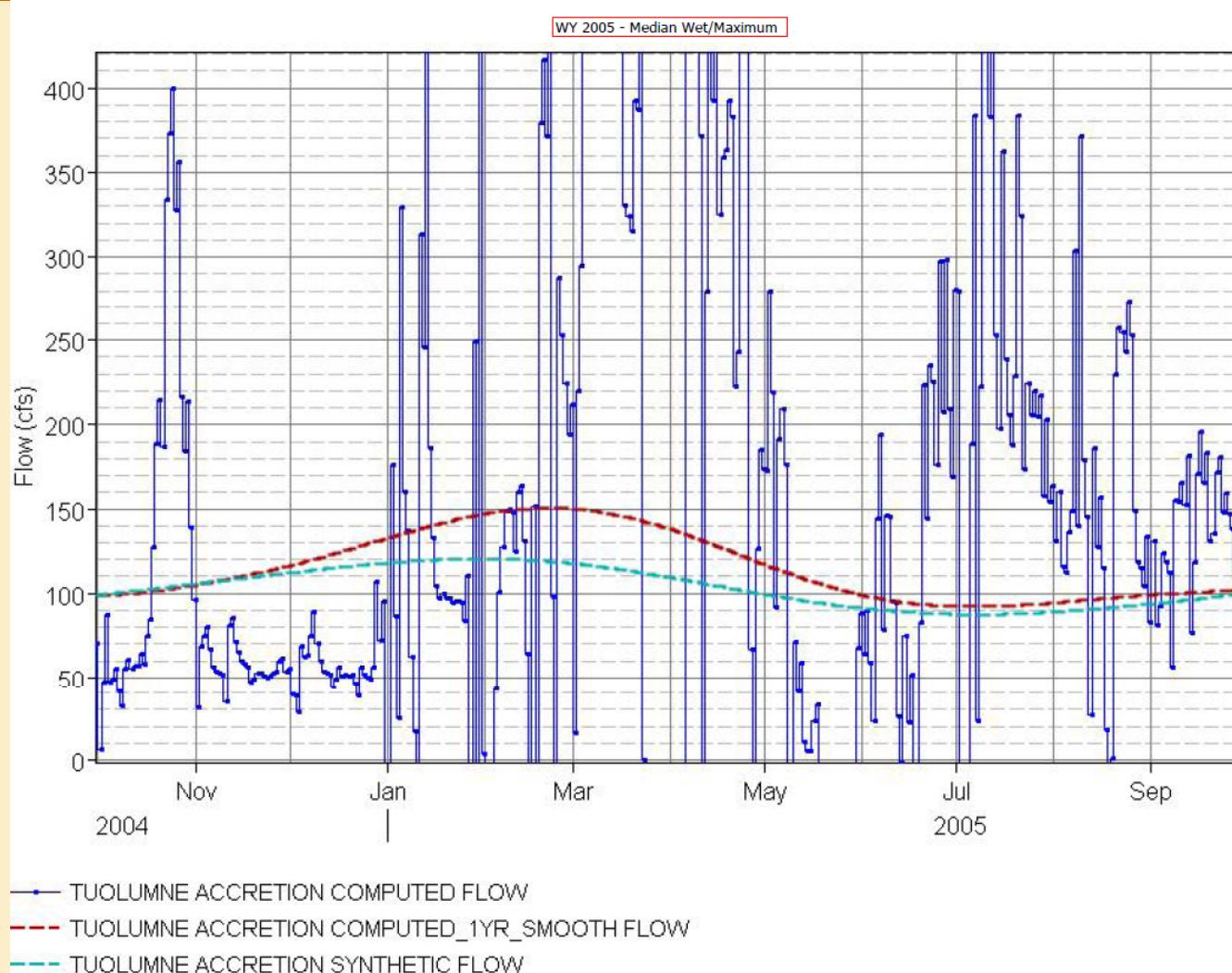


Lower Tuolumne Gage Calculations Water Year 2004



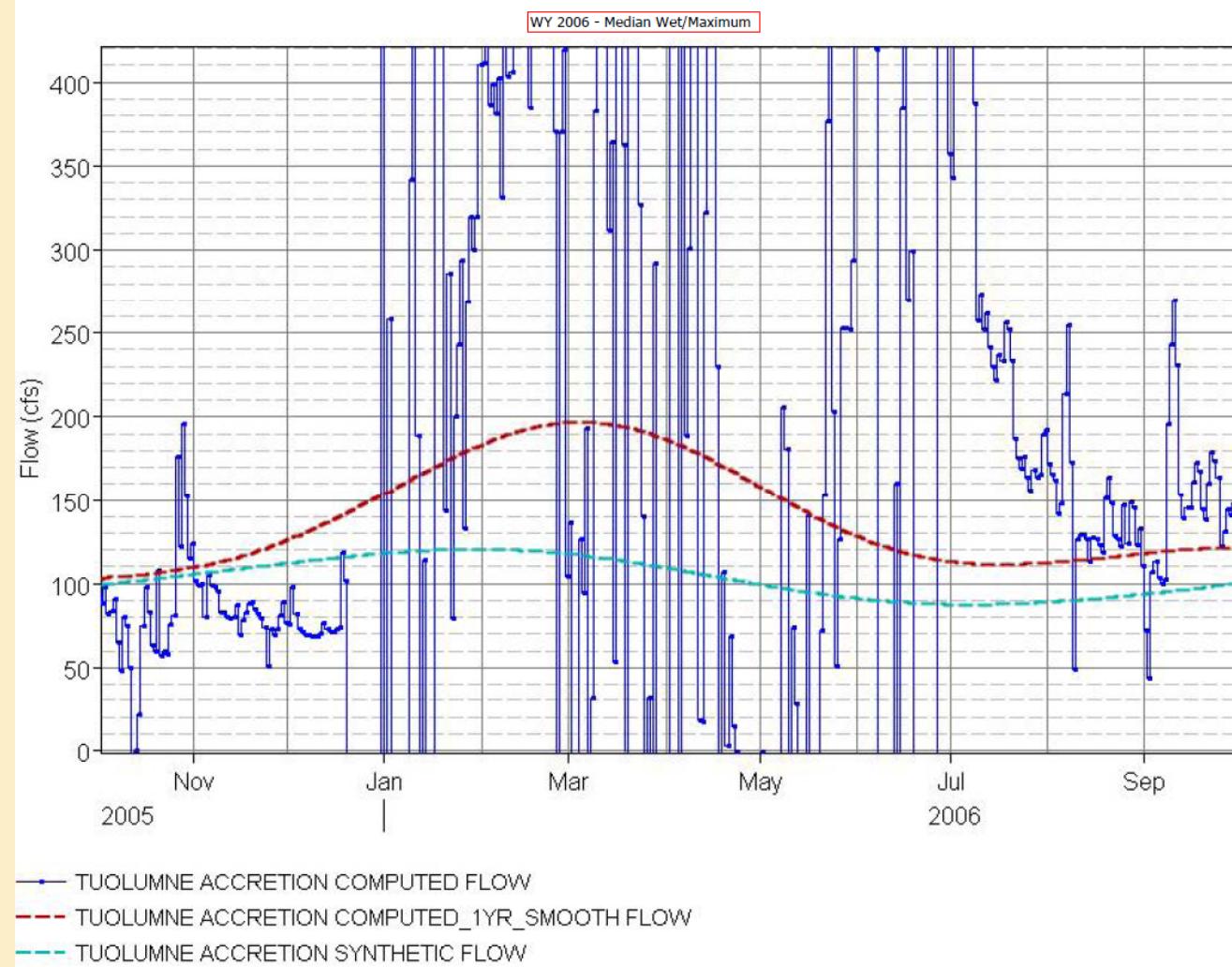


Lower Tuolumne Gage Calculations Water Year 2005



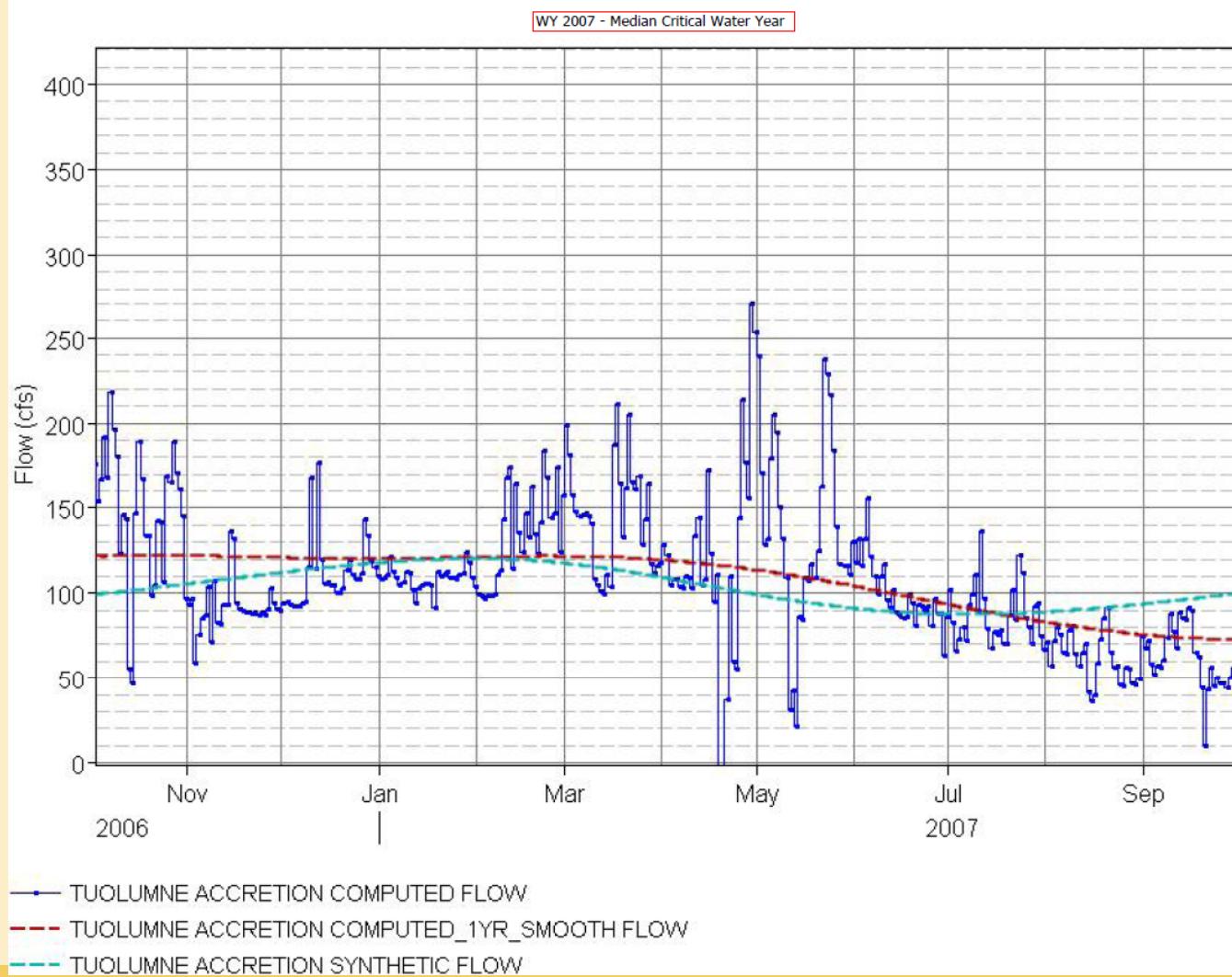


Lower Tuolumne Gage Calculations Water Year 2006



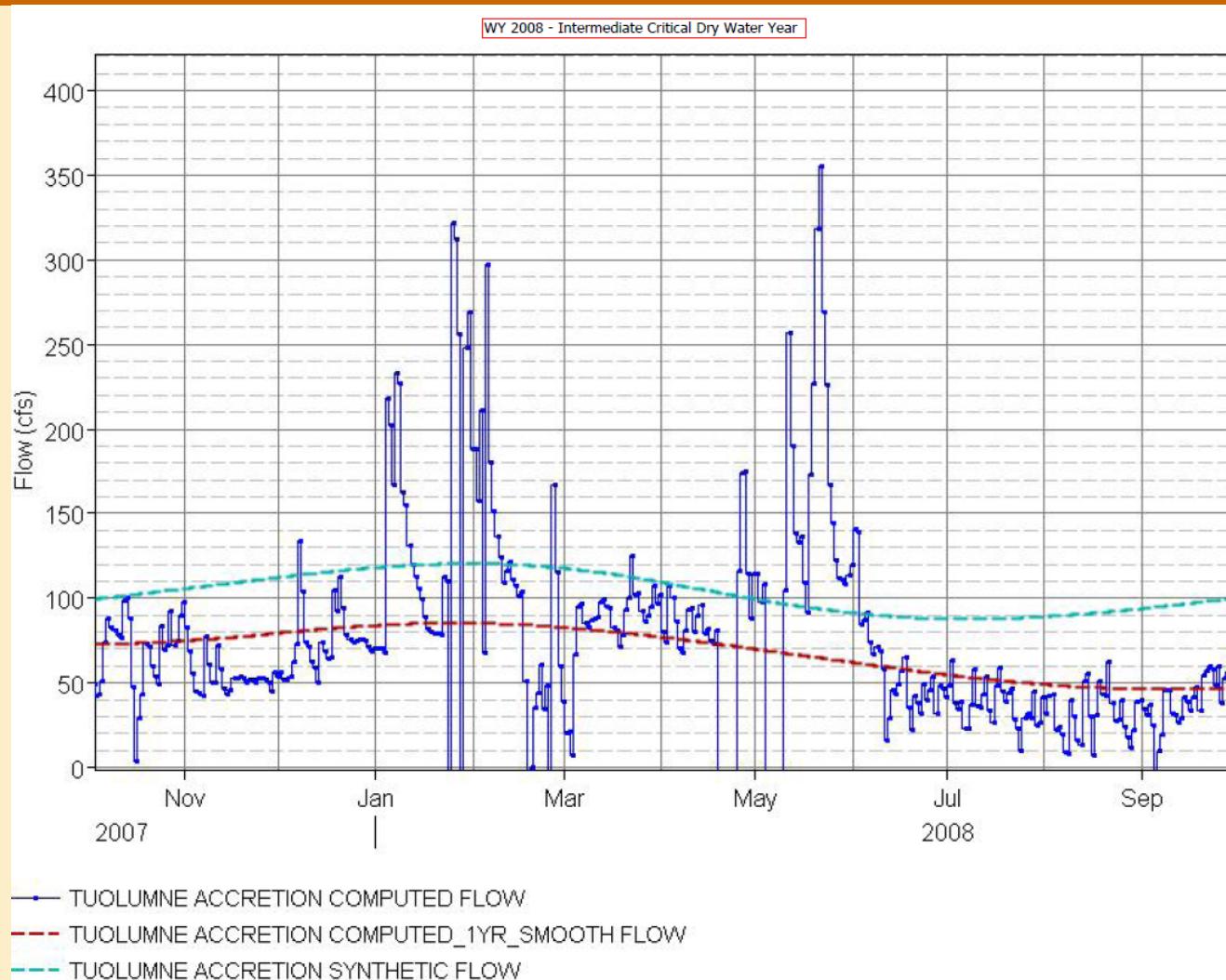


Lower Tuolumne Gage Calculations Water Year 2007



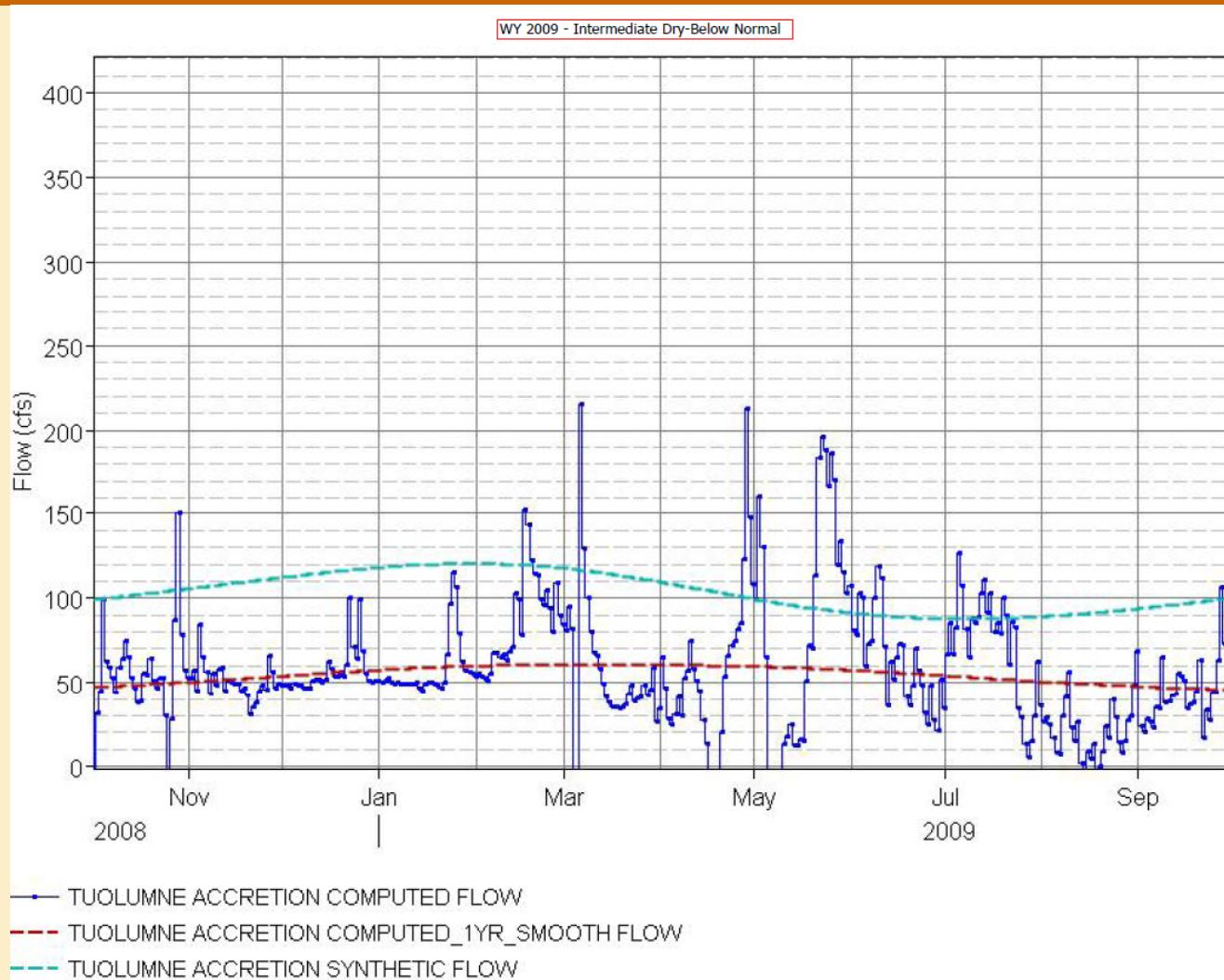


Lower Tuolumne Gage Calculations Water Year 2008



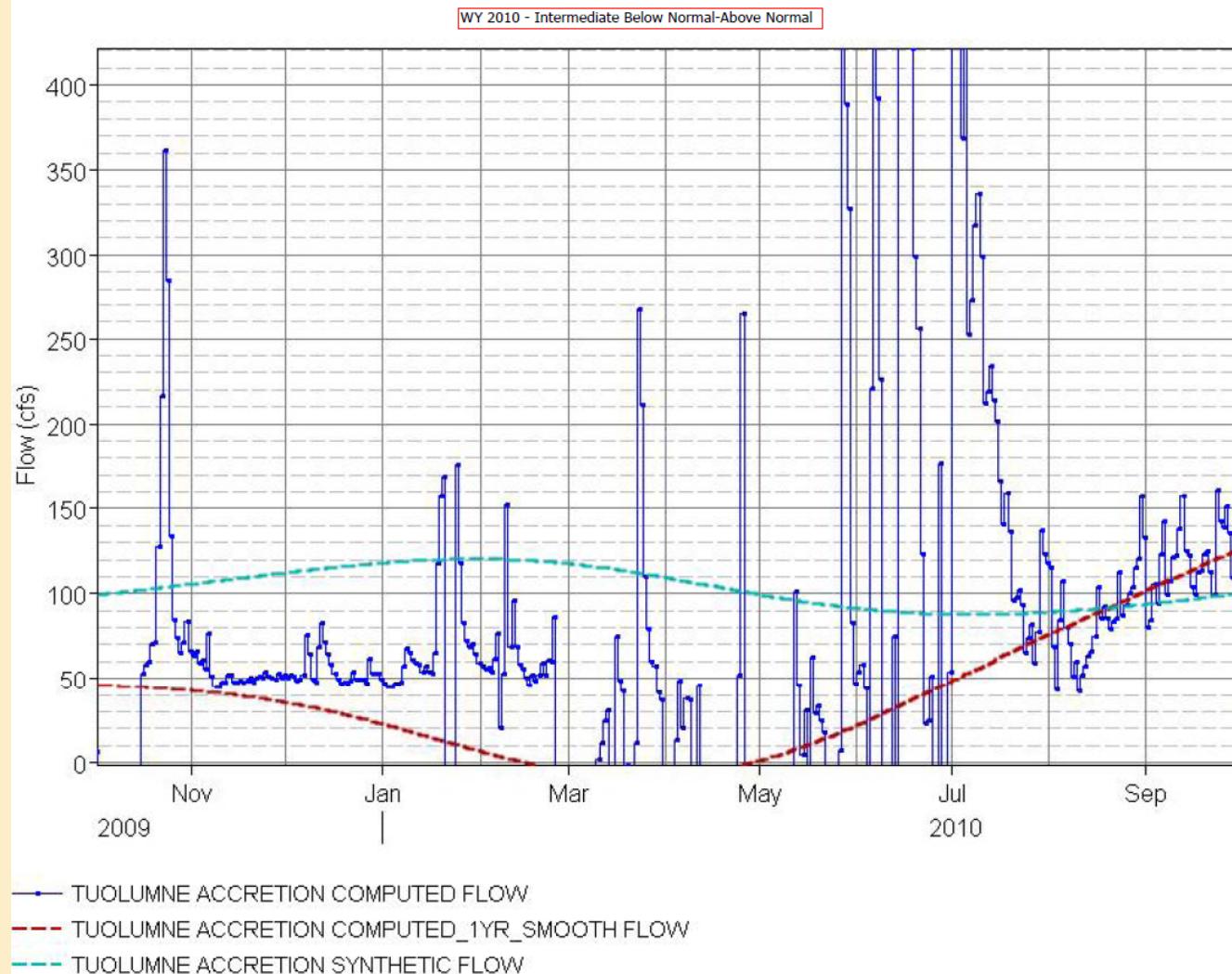


Lower Tuolumne Gage Calculations Water Year 2009





Lower Tuolumne Gage Calculations Water Year 2010



ATTACHMENT 2

**SWRCB REQUEST FOR ADDITIONAL TIME
TO SUBMIT COMMENTS**

From: Barnes, Peter@Waterboards [mailto:Peter.Barnes@waterboards.ca.gov]
Sent: Tuesday, November 20, 2012 3:16 PM
To: Staples, Rose
Cc: Devine, John
Subject: RE: Don Pedro Sept 2012 Hydrologic Investigations Workshop Draft Notes for Review

Rose,

I am requesting an extension to submit comments on the draft notes until the close of business next Tuesday, November 27th. The amount of relicensing meetings for this project coupled with my other projects and the holiday season, has not allowed me to give these notes the time needed. Please let me know if an extension until next Tuesday is acceptable.

Peter Barnes

From: Staples, Rose [mailto:Rose.Staples@hdrinc.com]
Sent: Monday, October 22, 2012 4:51 PM
To: Alves, Jim; Anderson, Craig; Asay, Lynette; Barnes, James; Barnes, Peter@Waterboards; Beniamine Beronia; Blake, Martin; Bond, Jack; Borovansky, Jenna; Boucher, Allison; Bowes, Stephen; Bowman, Art; Brenneman, Beth; Brewer, Doug; Buckley, John; Buckley, Mark; Burt, Charles; Byrd, Tim; Cadagan, Jerry; Carlin, Michael; Charles, Cindy; Colvin, Tim; Costa, Jan; Cowan, Jeffrey; Cox, Stanley Rob; Cranston, Peggy; Cremeen, Rebecca; Damin Nicole; Day, Kevin; Day, P; Denean; Derwin, Maryann Moise; Devine, John; Donaldson, Milford Wayne; Dowd, Maggie; Drekmeyer, Peter; Edmondson, Steve; Eicher, James; DWR James Fargo; Ferranti, Annee; Ferrari, Chandra; Fety, Lauren; Findley, Timothy; Fuller, Reba; Furman, Donn W; Ganteinbein, Julie; Giglio, Deborah; Gorman, Elaine; Grader, Zeke; Gutierrez, Monica; Hackamack, Robert; Hastreiter, James; Hatch, Jenny; Hayat, Zahra; Hayden, Ann; Hellam, Anita; Heyne, Tim; Holley, Thomas; Holm, Lisa; Horn, Jeff; Horn, Timi; Hudelson, Bill; Hughes, Noah; DWR Robert Hughes; Hume, Noah; Jackman, Jerry; Jackson, Zac; Jauregui, Julia; Jennings, William; Jensen, Art; Jensen, Laura; Johannis, Mary; Johnson, Brian; Justin; Keating, Janice; Kempton, Kathryn; Kinney, Teresa; Koepele, Patrick; Kordella, Lesley; Lein, Joseph; Levin, Ellen; Lewis, Reggie; Linkard, David; Loy, Carin; Lwanya, Roselynn; Lyons, Bill; Madden, Dan; Manji, Annie; Marko, Paul; Marshall, Mike; Martin, Michael; Martin, Ramon; Mathiesen, Lloyd; McDaniel, Dan; McDevitt, Ray; McDonnell, Marty; McLain, Jeffrey; Mein Janis; Mills, John; Minami Amber; Monheit, Susan@Waterboards; Morningstar Pope, Rhonda; Motola, Mary; Murphey, Gretchen; O'Brien, Jennifer; Orvis, Tom; Ott, Bob; Ott, Chris; Paul, Duane; Pavich, Steve; Pinhey, Nick; Pool, Richard; Porter, Ruth; Powell, Melissa; Puccini, Stephen; Raeder, Jessie; Ramirez, Tim; Rea, Maria; Reed, Rhonda; Richardson, Kevin; Ridenour, Jim; Robbins, Royal; Romano, David O; Roos-Collins, Richard; Roseman, Jesse; Rothert, Steve; Sandkulla, Nicole; Saunders, Jenan; Schutte, Allison; Sears, William; Shakal, Sarah; Shipley, Robert; Shumway, Vern; Shutes, Chris; Sill, Todd; Slay, Ron; Smith, Jim; Staples, Rose; Steindorf, Dave; Steiner, Dan; Stone, Vicki; Stork, Ron; Stratton, Susan; Taylor, Mary Jane; Terpstra, Thomas; TeVelde, George; Thompson, Larry; Vasquez, Sandy; Verkuil, Colette; Vierra, Chris; Wantuck, Richard; Welch, Steve; Wesselman, Eric; Wheeler, Dan; Wheeler, Dave; Wheeler, Douglas; Wilcox, Scott; Williamson, Harry; Willy, Allison; Wilson, Bryan; Winchell, Frank; Wooster, John; Workman, Michelle; Yoshiyama, Ron; Zipser, Wayne
Subject: Don Pedro Sept 2012 Hydrologic Investigations Workshop Draft Notes for Review

Attached please find the DRAFT Meeting Notes from the Don Pedro Project Relicensing *Hydrologic Investigations Workshop* held on September 21, 2012.

I have not included the meeting materials provided for meeting discussion, but if you would like to review, the documents can be found as attachments to the September 21st meeting date on the Don Pedro relicensing website calendar (www.donpedro-relicensing.com) / MEETINGS tab / click on Meetings

Calendar, then use the left arrow to back up one month to September); or they can be found as attachments to the September 18, 20, and 21 Announcements under the INTRODUCTION tab—click on “(more announcements)” to see these older announcements.

Please provide any comments on the draft workshop notes to me at rose.staples@hdrinc.com by no later than Wednesday, November 21. Thank you.

ROSE STAPLES
CAP-OM

HDR Engineering, Inc.
Executive Assistant, Hydropower Services

970 Baxter Boulevard, Suite 301 | Portland, ME 04103
207.239.3857 | f: 207.775.1742
rose.staples@hdrinc.com | hdrinc.com

ATTACHMENT 3

SWRCB COMMENTS

From: Barnes, Peter@Waterboards [<mailto:Peter.Barnes@waterboards.ca.gov>]
Sent: Tuesday, November 27, 2012 4:03 PM
To: Devine, John; Staples, Rose
Subject: Hydrologic Investigations Workshop: Comments on draft Meeting Notes

Mr. Devine,

On September 21, 2012, Modesto Irrigation District and Turlock Irrigation District (Districts) held the *Don Pedro Relicensing Participants Hydrologic Investigations Workshop* as part of the Federal Energy Regulatory Commission (FERC) relicensing of the Don Pedro Hydroelectric Project (FERC Project No. 2299). State Water Resources Control Board (State Water Board) staff participated in that workshop and reviewed the draft meeting notes prepared and distributed by the Districts. As requested, staff provides the following comments in response to the Hydrologic Investigations Workshop and draft meeting notes.

ACCRETION FLOW MEASUREMENTS DISCUSSION

In the meeting notes, the Districts reference a “SWRCB April 1989 report” that identifies a few pumping withdrawal points in the lower Tuolumne River and proceed to state that “depletions due to irrigation pumping do not appear to play a role in the area where the field measurements were taken.” This report is thirteen years old and may not accurately represent the current state of the Tuolumne River. Please work with State Water Board staff to determine if the information contained within this report is still representative of the water withdrawals on the Tuolumne River.

FLOW TREND PLOTS

State Water Board staff understands that the Districts are preparing a background technical memo to explain the flow plots that were presented at the meeting. Staff believes that the document could be very useful in addressing some of the questions raised by Relicensing Participants. When preparing the document, State Water Board staff request that the Districts include the “two-Gaussian smoothing functions” that are mentioned in the meeting notes along with a discussion as to why these functions are the preferred method for this type of analysis.

WATERSHED LOCATION FOR STATISTICAL ANALYSIS

State Water Board staff request that the Districts add the Tuolumne River at the confluence with the San Joaquin River to the list of Watershed Locations for Statistical Analysis. It is understood that there is not a gage at this location, but staff believe that an adequate record can be developed using the information gathered through previous studies as well as the Accretion Flow Measurements. If the Districts believe that they do not have enough information to develop a record that would allow for a sufficient statistical analysis, please work with State Water Board staff to develop a relationship between the flows in the upper and mid Tuolumne River with those at the confluence. Throughout the relicensing process, State Water Board staff have maintained that any minimum instream flow requirements developed during the relicensing must be directly linked to the flows at the confluence. This information will help create that relationship and inform future license conditions.

GENERAL COMMENTS

Many of the action items require the Districts to provide additional items. Please provide clarification as to when and how this information is to be provided to the Relicensing Participants.

If you have any questions regarding these comments, please contact me by phone at (916) 445-9989 or by email at pbarnes@waterboards.ca.gov.

Sincerely,

Peter Barnes
Engineering Geologist
Water Quality Certification Program
Division of Water Rights
State Water Resources Control Board
Phone: (916) 445-9989
Email: PBarnes@waterboards.ca.gov

ATTACHMENT 4

DISTRICTS' RESPONSE TO SWRCB COMMENTS

From: Devine, John
Sent: Sunday, February 03, 2013 2:40 PM
To: 'Barnes, Peter@Waterboards'
Cc: Dias, Greg; Joy Warren; Godwin, Arthur F; Bill Johnston; Boyd, Steve; Paris, Bill; Tim O'Laughlin; Borovansky, Jenna; Sherrick, Rob; steinerd@ix.netcom.com; Jones, Rick; Devine, John
Subject: Hydrologic Investigations Workshop: Responses to SWRCB Comments on draft Meeting Notes

Peter,

Please find below the Districts responses to your comments of November 27, 2012 on the meeting notes to W&AR-02 Consultation Workshop No.2. These comments were provided to me by email. Below, I have repeated the comment verbatim and then provide the Districts response. Please accept my apologies for the tardiness of the responses. Since Thanksgiving and through the holidays we became completely focused on finalizing the ISR reports and preparing for the ISR meetings.

SWRCB Comment: ACCRETION FLOW MEASUREMENTS DISCUSSION

In the meeting notes, the Districts reference a "SWRCB April 1989 report" that identifies a few pumping withdrawal points in the lower Tuolumne River and proceed to state that "depletions due to irrigation pumping do not appear to play a role in the area where the field measurements were taken." This report is thirteen years old and may not accurately represent the current state of the Tuolumne River. Please work with State Water Board staff to determine if the information contained within this report is still representative of the water withdrawals on the Tuolumne River.

Districts' Response: The Districts do not maintain records of other parties water withdrawals from the lower Tuolumne River. Holders of riparian water rights have no obligation to provide such information to the Districts. The Districts must rely on the SWRCB for such information. It is our understanding that parties with riparian water rights must record and make available to the SWRCB their water withdrawal records. During the accretion flow measurements, field

staff conducting the measurements were vigilant to note any water withdrawals observed. None were directly observed. This field observation appears to be consistent with the low numbers of withdrawals identified in the SWRCB's 1989 report.

SWRCB Comment: FLOW TREND PLOTS

State Water Board staff understands that the Districts are preparing a background technical memo to explain the flow plots that were presented at the meeting. Staff believes that the document could be very useful in addressing some of the questions raised by Relicensing Participants. When preparing the document, State Water Board staff request that the Districts include the “two-Gaussian smoothing functions” that are mentioned in the meeting notes along with a discussion as to why these functions are the preferred method for this type of analysis.

Districts' Response: At the September 21 Consultation Workshop No. 2 conducted as part of Study Plan W&AR-02: Tuolumne River Operations Model, the Districts shared with relicensing participants (RPs) preliminary information and analytical concepts for developing hydrology at nodes along the lower Tuolumne River. In prior comments, RPs had requested that computational “nodes” be established in the lower Tuolumne River. In the spirit of the Consultation Workshop protocols, which are intended to promote the early exchange and sharing of information in order to obtain technical input from RPs, the Districts presented at the September 21 Workshop some very preliminary results of estimates of lower Tuolumne River accretions using data from the USGS' La Grange and Modesto gages. The purpose of the Districts presentation was to share with RPs the Districts preliminary findings concerning accretions/depletions in the lower Tuolumne River. Our intent in providing this preliminary assessment was to assist the RPs in their decision-making as to where nodes might

be located and how intervening flows between the nodes might be estimated. As the Meeting Notes indicate, the application of a strict mathematical difference between the gages does not provide a consistent or reliable estimate of accretion flows. Also at the September 21 Workshop, the Districts presented a couple of examples of the results of applying different Gaussian smoothing functions to the gage data. The Districts were not representing these functions as the “preferred method for this type of analysis” but just possibilities. Actually, as the Meeting Notes indicate, the Districts were seeking technical input from RPs “to provide additional ideas on methods” for estimating the total accretion flows. Having received no additional suggestions from RPs, the Districts moved forward with further analysis of accretion flows in the lower Tuolumne River, and on November 6, 2012, issued their draft report to RPs entitled *Lower Tuolumne River Accretion (La Grange to Modesto): Estimated Daily Flows (1970-2010) for the Operations Model*. The report contains a full description of the methods used to estimate daily values of accretion flows in the Lower Tuolumne River. The Districts requested review and comments from RPs. No comments were received. These estimated daily flows have now been input into the Operations Model. This same Accretion Report can also be found in Appendix B to the W&AR-02 report issued as part of the ISR.

SWRCB Comment: WATERSHED LOCATION FOR STATISTICAL ANALYSIS

State Water Board staff request that the Districts add the Tuolumne River at the confluence with the San Joaquin River to the list of Watershed Locations for Statistical Analysis. It is understood that there is not a gage at this location, but staff believe that an adequate record can be developed using the information gathered through previous studies as well as the Accretion Flow

Measurements. If the Districts believe that they do not have enough information to develop a record that would allow for a sufficient statistical analysis, please work with State Water Board staff to develop a relationship between the flows in the upper and mid Tuolumne River with those at the confluence. Throughout the relicensing process, State Water Board staff have maintained that any minimum instream flow requirements developed during the relicensing must be directly linked to the flows at the confluence. This information will help create that relationship and inform future license conditions.

Districts' Response: The Districts acknowledge the SWRCB's request to provide a hydrologic "node" at the mouth of the Tuolumne River and look forward to working with the SWRCB to develop an adequate flow record for this location. The Districts have previously noted that the drainage area between the USGS gage at Modesto and the mouth of the Tuolumne River is only approximately 75 square miles, or about 4% of the entire watershed. More importantly, there is no perennial streams entering the Tuolumne River below the Modesto gage and the lower elevations of the watershed are the driest. There are three locations of operational spills (1 TID; 2 MID) that intermittently provide flow to the river between the Modesto gage and the mouth. The Districts have records of these flows. However, there are private water withdrawal facilities along this reach of the river as mentioned above. The Districts have no record of these withdrawals and have no way of obtaining them. We have taken two accretion flow measurements to date (June 25 and October 3-4), both of which indicate an accreting reach below the Modesto gage but at very different amounts. While we are certainly willing to work with staff of SWRCB to develop a model node at the mouth, we are doubtful that conducting statistical analyses at the mouth will yield reliable results.

Regarding your statement that "any minimum instream flow requirements developed during the relicensing must be directly linked to the flows at the confluence", it is unlikely that any reliable direct

linkage can be predicted, nor do the Districts agree that they should be responsible for making up for any depletions that occur along the river's course, natural or otherwise.

SWRCB GENERAL COMMENTS

Many of the action items require the Districts to provide additional items. Please provide clarification as to when and how this information is to be provided to the Relicensing Participants.

Districts Response: Much of this information has been previously provided, in particular the November 6, 2012, report on accretion flows. The Districts will provide responses to the remaining items by February 15, 2013.

Peter – I hope this addresses your comments and questions. Please let me know if we can provide any further clarifications.

JOHN DEVINE

P.E.

HDR Engineering, Inc.

Senior Vice President, Hydropower Services

970 Baxter Boulevard Suite 301 | Portland, ME 04103

207.775.4495 | c: 207.776.2206 | f: 207.775.1742

john.devine@hdrinc.com | hdrinc.com

ATTACHMENT 5

**FIELD MEASUREMENTS OF ACCRETION FLOWS
CONDUCTED
JUNE 25/26, 2012; OCTOBER 03/04, 2012;
FEBRUARY 11/12, 2013**

Accretion Study Overview

Site	Dry Creek River Mile	Tuolumne River Mile	Irrigation Season ^a	Irrigation Season--Low Flow ^a	Non-Irrigation Season ^b	Reason behind location selection	Reach ^c	Notes
Tuolumne River at La Grange gage house	--	51.5	6/25/12	10/3/12	2/11/13	For comparing measured values to gaged values	Dominant Salmon Spawning Reach	--
Tuolumne River at La Grange (USGS 11289650)	--	51.5	6/25/12	10/3/12	2/11/13	Gage	Dominant Salmon Spawning Reach	--
Tuolumne River at La Grange (CDEC LGN)	--	51.5	6/25/12	10/3/12	2/11/13	Gage	Dominant Salmon Spawning Reach	--
Tuolumne River at Basso Pool	--	49.1	6/25/12	10/3/12	2/11/13	From Instream Flow Study Targets potential depletion/recharge area	Dominant Salmon Spawning Reach	--
Tuolumne River at Zanker property	--	45.5	--	10/4/12	2/12/13	From Instream Flow Study	Dredger Tailings Reach	--
Tuolumne River at Bobcat Flat	--	43.4	6/25/12	10/4/12	2/12/13	From Instream Flow Study	Dredger Tailings Reach	--
Tuolumne River at Roberts Ferry Bridge	--	39.5	6/25/12	10/4/12	2/11/13	Downstream of Turlock Lake but above Modesto Reservoir	Gravel Mining Reach	--
Tuolumne River at Santa Fe Aggregates Waterford Main (MID)	--	37.1	6/25/12	10/4/12	2/12/13	From Instream Flow Study	Gravel Mining Reach	--
Hickman Spill (TID)	--	33.0	6/25/12	10/3/12	2/12/13	Operational outflow	--	--
Tuolumne River at Waterford	--	33.0	6/25/12	10/3/12	2/12/13	Operational outflow	--	--
Tuolumne River at Delaware Road	--	31.5	6/25/12	10/3/12	2/11/13	From Instream Flow Study	In-channel Gravel Mining Reach	--
Tuolumne River at Fox Grove Park	--	30.5	6/29/12	10/3/12	2/11/13	From Instream Flow Study	In-channel Gravel Mining Reach	--
Faith Home Spill (TID)	--	26.0	--	10/4/12	2/12/13	Information between RM 30.5 and RM 17.2	In-channel Gravel Mining Reach	--
Lateral No. 1 (MID)	--	20.0	6/25/12	10/3/12	2/12/13	Operational outflow	--	--
Tuolumne River at Legion Park	--	18.0	6/25/12	10/3/12	2/12/13	Operational outflow	--	--
Dry Creek (CDEC DCM)	5.3	17.2	6/25/12	10/3/12	2/11/13	Added at 9/21/12 Workshop	Urban Sand-Bedded Reach	--
Dry Creek at gage	5.3	16.4	--	10/4/12	2/12/13	Gage	--	MID's Lateral 2 outlet is the only true operational outlet with consistent flow into Dry Creek at latitude/longitude 37.652142; -120.930206 (Loschke, pers. comm. 2013). ^{d,e,f}
Dry Creek 2.0	2.0	16.4	--	10/4/12	2/12/13	For comparing measured values to gaged values	--	
Mouth of Dry Creek	0.0	16.4	6/25/12	10/3/12	2/12/13	Information between RM 5.3 and RM 0.0	--	
Tuolumne River at Modesto 9th St. Bridge	--	16.2	6/25/12	10/3/12	2/11/13	Inflow to Tuolumne River	--	
Tuolumne River at Modesto (USGS 11290000)	--	16.2	6/25/12	10/3/12	2/11/13	For comparing measured values to gaged values	Urban Sand-Bedded Reach	--
Tuolumne River at Modesto (CDEC MOD)	--	16.2	6/25/12	10/3/12	2/11/13	Gage	Urban Sand-Bedded Reach	--
Lateral 1 (TID)	--	11.0	6/25/12	10/3/12	2/11/13	Gage	Urban Sand-Bedded Reach	--
Tuolumne River near Riverdale Park	--	10.0	--	10/3/12	2/12/13	Operational outflow	--	
Tuolumne River at Shiloh Bridge	--	3.7	6/25/12	10/3/12	2/11/13	Information between RM 16 and RM 3.7	Lower Sand-Bedded Reach	--
Lateral No. 5 (MID)	--	2.0	6/25/12	10/3/12	2/11/13	Added at 9/21/12 Workshop	Lower Sand-Bedded Reach	--
						Operational outflow	--	

-- not measured or not applicable

Grey is used to highlight inflow locations and flows.

Notes:

^a Irrigation deliveries for 2012 started mid-March and ended October 10.

^b Irrigation deliveries for 2013 started March 5

^c See W&AR-04 Spawning Gravel (TID/MID 2013).

^d Lateral 2 has 15 minute flow records back to 2007 and chart recorders and staff gage records back to 1972 (Loschke, pers. comm. 2013).

^e As of 10/30/2012, the small amount of flow in MID's WTFD L-3 is captured by a private land owner (Loschke, pers. comm. 2013).

^f All spills from the Waterford system into dry creek are inconsistent and minimal (Loschke, pers. comm. 2013).

Tuolumne River and Dry Creek Flow Measurements
June 25, 2012 (Revision 1 - 3/10/13)

Site	Date	Dry Creek River Mile	Tuolumne River Mile	Time (military)		Field Measurements ^a				Discharge (ft ³ /sec)	Accretion per mile (ft ³ /sec)	Difference between Gage & Measured ^b (%)	
						Measured Discharge (ft ³ /sec)							
				Start	End	Q1 ^c	Q2	Q3	Avg				
Tuolumne River at La Grange gage house	6/25/12	--	51.5	0950	1120	119.2	110.6	--	114.9	114.9		--	
Tuolumne River at La Grange (USGS 11289650) ^d	6/25/12	--	51.5	0945	1130	--	--	--	--	130		12	
Tuolumne River at La Grange (CDEC LGN) ^e	6/25/12	--	51.5	0000	2345	--	--	--	--	94		22	
Tuolumne River at Basso Pool	6/25/12	--	49.1	1325	1440	101.3	103.7	--	102.5	102.5	-5.2	--	
Tuolumne River at Bobcat Flat	6/25/12	--	43.4	1300	1625	93.3	105.5	99.0	99.2	99.2	-0.6	--	
Tuolumne River at Roberts Ferry Bridge	6/25/12	--	39.5	1535	1635	128.6	122.4	--	125.5	125.5	6.7	--	
Tuolumne River at Santa Fe Aggregates	6/25/12	--	37.1	1720	1830	119.1	126.0	--	122.5	122.5	-1.2	--	
Waterford Main (MID) ^f	6/25/12	--	33	1800	2000	--	--	--	--	8		--	
Hickman Spill (TID) ^g	6/25/12	--	33	0000	2345	--	--	--	--	0		--	
Tuolumne River at Waterford	6/25/12	--	31.5	1834	1932	122.0	118.5	--	120.2	120.2	-0.4	--	
Tuolumne River at Delaware Road ^h	6/29/12	--	30.5	1045	1230	138.7	138.1	--	138.4	138.4	18.2	--	
Faith Home Spill (TID) ^g	6/25/12	--	20	0000	2345	--	--	--	--	0		--	
Lateral No. 1 (MID) ^j	6/25/12	--	18	1115	1230	--	--	--	--	1		--	
Tuolumne River at Legion Park	6/25/12	--	17.2	1115	1230	169.1	181.6	--	175.4	175.4	2.8	--	
Dry Creek (CDEC DCM) ^{e,i}	6/25/12	5.3	16.4	0000	2345	--	--	--	--	38		--	
Mouth of Dry Creek ^{j,k,l}	6/25/12	0.0	16.4	0915	1015	56.4	54.7	--	55.5	55.5	46 ^k		
Tuolumne River at Modesto 9th St. Bridge	6/25/12	--	16.2	1300	1400	204.2	212.1	--	208.2	208.2	32.8	--	
Tuolumne River at Modesto (USGS 11290000) ^d	6/25/12	--	16.2	1300	1400	--	--	--	--	219		5	
Tuolumne River at Modesto (CDEC MOD) ^e	6/25/12	--	16.2	0000	2345	--	--	--	--	216		4	
Lateral 1 (TID) ^g	6/25/12	--	11	0000	2345	--	--	--	--	0		--	
Tuolumne River at Shiloh Bridge	6/25/12	--	3.7	1530	1700	241.3	251.3	--	246.3	246.3	3.1	--	
Lateral No. 5 (MID) ^f	6/25/12	--	2	0900	2000	--	--	--	--	26.5		--	

-- not measured or not applicable

Grey is used to highlight inflow locations and flows.

Notes:

^a Measurements collected by Stillwater Sciences using standard methods for collecting data in wadeable streams (Rantz 1982).

^b Percent Difference = $|1 - Q_{\text{measured}}/Q_{\text{gage}}| * 100$, where Q_{measured} is the measured flow and Q_{gage} is the gage flow.

^c Q = flow. Q1, Q2, and Q3 are replicate measurements.

^d Average data for measurement time interval, e.g. 9:45 to 11:30 am for USGS 11289650, downloaded from USGS NWIS website: <http://waterdata.usgs.gov/usa/nwis/sw>. Flows reflect a rating curve "shift" retroactively applied by USGS on or about June 28, 2012. The difference between flows reported under the old and new rating curves for that date and time is approximately 30 cfs.

^e Mean daily flow downloaded from CDEC website: <http://cdec.water.ca.gov/selectQuery.html>. Does not reflect La Grange gage's updated rating curve.

^f Average flow for the time interval, e.g. 11:15 am to 12:30 pm for MID's Lateral 1, provided by MID (Ward, pers. comm. 2012)

^g Daily flow provided by TID (Boyd, pers. comm. 2012)

^h In Waterford downstream of Waterford Water Treatment Plant discharge. The current WWTP is rated to accommodate flows up to 1.0 mgd (RMC 2006). Data collected later than other sites; however, the temporary stage installed for the co-occurring IFIM study upstream at the Waterford site (RM 31.5) was within 1/100 ft between the two sample dates, indicating little change in flow between 6/29/12 versus 6/25/12.

ⁱ Dry Creek gage located upstream at Dry Creek RM 5.3 at Claus Rd., Modesto.

^j Measurements taken in Dry Creek above confluence with Tuolumne River.

^k Unlike the other locations, Dry Creek flow measurements were not taken at the gage. This number expresses how much flows increase below the gage. On June 25, flows increased almost 50% below the gage, accounting for 1/3 of the total flow.

Tuolumne River and Dry Creek Flow Measurements

October 3-4, 2012 (Revision 2 - 3/10/13)

Site	Date	Dry Creek River Mile	Tuolumne River Mile	Time (military)		Field Measurements ^a			Discharge (ft ³ /sec)	Accretion per mile (ft ³ /sec)	Difference between Gage & Measured ^b (%)	Stream Temp. (°C)		
						Measured Discharge (ft ³ /sec)								
				Start	End	Q1 ^c	Q2	Avg						
Tuolumne River at La Grange gage house	10/3/12	--	51.5	1330	1430	203.1	201.3	202.2	202.2	--	--	12.7		
Tuolumne River at La Grange (USGS 11289650) ^d	10/3/12	--	51.5	1330	1430	--	--	--	179	--	13	--		
Tuolumne River at La Grange (CDEC LGN) ^e	10/3/12	--	51.5	0000	2345	--	--	--	170	--	--	--		
Tuolumne River at Basso Pool	10/3/12	--	49.1	1530	1700	185.1	196.8	191.0	191.0	-5	--	15.5		
Tuolumne River at Zanker property	10/4/12	--	45.5	1020	1130	184.2	181.5	182.9	182.9	-2.2	--	14.9		
Tuolumne River at Bobcat Flat	10/4/12	--	43.4	1245	1350	163.3	169.1	166.2	166.2	-7.9	--	16.2		
Tuolumne River at Roberts Ferry Bridge	10/4/12	--	39.5	0900	1005	200.7	192.2	196.4	196.4	7.7	--	16.4		
Tuolumne River at Santa Fe Aggregates	10/4/12	--	37.1	1032	1144	182.1	185.2	183.6	183.6	-5.3	--	17.8		
Waterford Main (MID) ^f	10/3/12	--	33.0	0000	2300	--	--	--	1.0	--	--	--		
Hickman Spill (TID) ^g	10/3/12	--	33.0	0000	2300	--	--	--	0	--	--	--		
Tuolumne River at Waterford	10/3/12	--	31.5	1440	1620	194.0	189.4	191.7	191.7	1.4	--	21.6		
Tuolumne River at Delaware Road ^h	10/3/12	--	30.5	1250	1400	183.0	185.7	184.4	184.4	-7.3	--	21.5		
Tuolumne River at Fox Grove Park	10/4/12	--	26.0	1430	1520	207.8	206.6	207.2	207.2	5.1	--	23.0		
Faith Home Spill (TID) ^g	10/3/12	--	20.0	0000	2300	--	--	--	0	--	--	--		
Lateral No. 1 (MID) ^f	10/3/12	--	18.0	0000	2300	--	--	--	1.6	--	--	--		
Tuolumne River at Legion Park	10/3/12	--	17.2	1330	1420	192.3	188.0	190.1	190.1	-1.9	--	24.8		
Dry Creek (CDEC DCM) ^{e,i}	10/4/12	5.3	16.4	0830	0910	--	--	--	24	--	35	--		
Dry Creek at gage	10/4/12	5.3	16.4	0830	0910	36.5	37.8	37.1	37.1	--	--	19.5		
Dry Creek 2.0	10/4/12	2.0	16.4	0940	1030	30.8	31.6	31.2	31.2	--	--	19.5		
Mouth of Dry Creek ^{j,k}	10/3/12	0.0	16.4	1440	1515	38.2	36.7	37.4	37.4	--	--	22.3		
Tuolumne River at Modesto 9th St. Bridge	10/3/12	--	16.2	1110	1205	205.9	212.6	209.3	209.3	19.1	--	23.7		
Tuolumne River at Modesto (USGS 11290000) ^d	10/3/12	--	16.2	1115	1200	--	--	--	227	--	8	--		
Tuolumne River at Modesto (CDEC MOD) ^e	10/3/12	--	16.2	0000	2345	--	--	--	238	--	12	--		
Lateral 1 (TID) ^g	10/3/12	--	11.0	0000	2300	--	--	--	0	--	--	--		
Tuolumne River near Riverdale Park	10/3/12	--	10.0	0930	1100	250.0	249.2	249.6	249.6	6.5	--	21.2		
Tuolumne River at Shiloh Bridge	10/3/12	--	3.7	0930	1020	219.3	220.5	219.9	219.9	-4.7	--	22.2		
Lateral No. 5 (MID) ^f	10/3/12	--	2.0	0000	2300	--	--	--	14.3	--	--	--		

-- not measured or not applicable

Grey is used to highlight inflow locations and flows.

Notes:

^a Measurements collected by Stillwater Sciences using standard methods for collecting data in wadeable streams (Rantz 1982).

^b Percent Difference = $|1 - Q_{\text{measured}}/Q_{\text{gage}}| * 100$, where Q_{measured} is the measured flow and Q_{gage} is the gage flow.

^c Q = flow. Q1 and Q2 are replicate measurements.

^d Average data for measurement time interval, e.g. 13:30 to 14:30 pm for USGS 11289650, downloaded from USGS NWIS website: <http://waterdata.usgs.gov/usa/nwis/sw>.

^e Mean daily flow downloaded from CDEC website: <http://cdec.water.ca.gov/selectQuery.html>. Does not reflect La Grange gage's updated rating curve.

^f Daily flow provided by MID (Ward, pers. comm. 2012)

^g TID recorded zero operational outflow on these dates (Boyd, pers. comm. 2012).

^h In Waterford downstream of Waterford Water Treatment Plant discharge. The current WWTP is rated to accommodate flows up to 1.0 mgd (RMC 2006).

ⁱ Dry Creek gage located upstream at Dry Creek RM 5.3 at Claus Rd., Modesto.

^j Measurements taken in Dry Creek at confluence with Tuolumne River.

Tuolumne River and Dry Creek Flow Measurements

February 11-12, 2013

Site	Date	Dry Creek River Mile	Tuolumne River Mile	Time (military)		Field Measurements ^a				Discharge (ft ³ /sec)	Accretion per mile (ft ³ /sec)	Difference between Gage & Measured ^b (%)	Stream Temp. (°C)		
						Measured Discharge (ft ³ /sec)									
				Start	End	Q1 ^c	Q2	Q3	Avg						
Tuolumne River at La Grange gage house	2/11/13	--	51.5	0945	1200	169.0	171.9	--	170.4	170.4	--	--	10.2		
Tuolumne River at La Grange (USGS 11289650) ^d	2/11/13	--	51.5	0945	1200	--	--	--	--	182		6	--		
Tuolumne River at La Grange (CDEC LGN) ^e	2/11/13	--	51.5	0000	2345	--	--	--	--	164		4	--		
Tuolumne River at Bass Pool	2/11/13	--	49.1	1245	1415	161.9	159.4	--	160.6	160.6	-4	--	11.6		
Tuolumne River at Zanker property	2/12/13	--	45.5	0920	1115	178.8	165.3	--	172.1	172.1	3.2	--	9.3		
Tuolumne River at Bobcat Flat	2/12/13	--	43.4	1200	1248	167.1	173.0	--	170.1	170.1	-1.0	--	10.4		
Tuolumne River at Roberts Ferry Bridge	2/11/13	--	39.5	1455	1720	176.6	161.2	164.3	167.3	167.3	-0.7	--	11.3		
Tuolumne River at Santa Fe Aggregates	2/12/13	--	37.1	0905	1105	171.8	171.8	--	171.8	171.8	1.9	--	9.0		
Waterford Main (MID) ^f	2/12/13	--	33.0	0000	2300	--	--	--	--	0		--	--		
Hickman Spill (TID) ^g	2/12/13	--	33.0	0000	2300	--	--	--	--	0		--	--		
Tuolumne River at Waterford	2/11/13	--	31.5	1000	1135	167.8	169.3	--	168.6	168.6	-0.6	--	9.5		
Tuolumne River at Delaware Road ^h	2/11/13	--	30.5	1215	1405	180.3	179.6	176.2	178.7	178.7	10.2	--	10.3		
Tuolumne River at Fox Grove Park	2/12/13	--	26.0	1413	1510	193.8	191.1	--	192.5	192.5	3.1	--	12.2		
Faith Home Spill (TID) ^g	2/12/13	--	20.0	0000	2300	--	--	--	--	0		--	--		
Lateral No. 1 (MID) ^f	2/12/13	--	18.0	0000	2300	--	--	--	--	0		--	--		
Tuolumne River at Legion Park	2/11/13	--	17.2	1309	1450	190.9	185.9	--	188.4	188.4	-0.5	--	13.2		
Dry Creek (CDEC DCM) ^{e,i}	2/12/13	5.3	16.4	0000	2345	--	--	--	--	2		293	--		
Dry Creek at gage	2/12/13	5.3	16.4	1200	1330	0.5	0.6	--	0.5	0.5		--	6.7		
Dry Creek 2.0	2/12/13	2.0	16.4	1047	1140	0.8	0.8	--	0.8	0.8		--	7.9		
Mouth of Dry Creek ^{i,k}	2/12/13	0.0	16.4	0915	1030	0.6	0.7	--	0.6	0.6		--	9.3		
Tuolumne River at Modesto 9th St. Bridge	2/11/13	--	16.2	1514	1700	189.2	195.9	--	192.6	192.6	4.1	--	13.3		
Tuolumne River at Modesto (USGS 11290000) ^d	2/11/13	--	16.2	1514	1700	--	--	--	--	197		2	--		
Tuolumne River at Modesto (CDEC MOD) ^e	2/11/13	--	16.2	1514	1700	--	--	--	--	197		2	--		
Lateral 1 (TID) ^g	2/11/13	--	11.0	0000	2300	--	--	--	--	0		--	--		
Tuolumne River near Riverdale Park	2/12/13	--	10.0	1200	1330	215.7	212.7	--	214.2	214.2	3.5	--	11.4		
Tuolumne River at Shiloh Bridge	2/11/13	--	3.7	1030	1200	213.5	225.0	--	219.2	219.2	0.8	--	11.5		
Lateral No. 5 (MID) ^f	2/11/13	--	2.0	0000	2300	--	--	--	--	0		--	--		

-- not measured or not applicable

Grey is used to highlight inflow locations and flows.

Notes:

^a Measurements collected by Stillwater Sciences using standard methods for collecting data in wadeable streams (Rantz 1982) during a time of no irrigation deliveries or rainfall.

^b Percent Difference = $|Q_{measured} - Q_{gage}| / Q_{gage} * 100$, where $Q_{measured}$ is the measured flow and Q_{gage} is the gage flow.

^c Q = flow. Q1, Q2, and Q3 are replicate measurements.

^d Average data for measurement time interval, e.g. 9:45 am to 12:00 pm for USGS 11289650, downloaded from USGS NWIS website: <http://waterdata.usgs.gov/usa/nwis/sw>.

^e Mean daily flow downloaded from CDEC website: <http://cdec.water.ca.gov/selectQuery.html>.

^f MID has NO recorded spills to contribute to the accretion data for the Tuolumne. Standard operating procedure for off season operations require draining the facilities and shutting off flow recorders (Ward, pers. comm. 2013).

^g TID recorded zero operational outflow on these dates (Boyd, pers. comm. 2013).

^h In Waterford downstream of Waterford Water Treatment Plant discharge. The current WWTP is rated to accommodate flows up to 1.0 mgd (RMC 2006).

ⁱ Dry Creek gage located upstream at Dry Creek RM 5.3 at Claus Rd., Modesto.

^j Measurements taken in Dry Creek at confluence with Tuolumne River.

^k MID's Lateral 2 was not spilling on February 11-12, 2013 (Loschke, pers. comm. 2013).

Modesto and Turlock Reservoir: Storage in reservoirs on Accretion Measurement Dates

Date	Modesto Reservoir ^a		Turlock Lake ^b	
	elevation (feet)	storage (acre-feet)	elevation (feet)	storage (acre-feet)
Irrigation Season				
6/25/2012	22.38	20160	234.02	26765
6/26/2012	22.65	20700	234.05	26833
Irrigation Season--Low Flow				
10/3/2012	19.19	14604	236.02	31703
10/4/2012	19.69	15404	235.91	31399
Non-Irrigation Season				
2/11/2013	19.15	14540	228.7	16658
2/12/2013	19.3	14780	228.7	16626

^a Modesto Reservoir storage provided by MID (Loschke, pers. comm. 2013).

^b Turlock Lake storage available at <http://wiskiweb.tid.org>.

REFERENCES

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Rantz 1982	Rantz, S.E. 1982. Measurement and computation of streamflow: volume 1. Measurements of stage and discharge. USGS Water Supply Paper 2175. U.S. Geological Survey.
RMC 2006	City of Waterford Waste Water Treatment Plant Assessment Report. Final Report. March 7
TID/MID 2013	W&AR-04 Spawning Gravel on the Lower Tuolumne River. Progress Report. Don Pedro Project. FERC Project No. 2299. Prepared by Stillwater Sciences. January.