Appendix A. 2001-02 Umatilla River Water Parameter Data

Date	TEMP @ UMATILLA C	F	FLOW @ PENDLETON	FLOW @ YOAKUM	SFC FLOWS	CSC FLOWS	WLC FLOWS
01-Sep-01	NA	NA	36	157	14	0	128
02-Sep-01	NA	NA	37	155	11	0	133
03-Sep-01	NA	NA	38	150	7	0	144
04-Sep-01	NA	NA	38	144	1	0	148
05-Sep-01	NA	NA	38	138	1	0	135
06-Sep-01	NA	NA	40	139	1	0	124
07-Sep-01	NA	NA	40	152	1	0	129
08-Sep-01	NA	NA	41	153	1	0	127
09-Sep-01	NA	NA	41	153	1	0	125
10-Sep-01	17.8	64.0	40	147	1	0	121
11-Sep-01	18.3	65.0	39	145	1	0	128
12-Sep-01	17.8	64.0	39	142	1	0	133
13-Sep-01	18.9	66.0	39	135	1	0	123
14-Sep-01	NA	NA	40	135	1	0	121
15-Sep-01	NA	NA	39	127	1	0	84
16-Sep-01	NA	NA	40	124	1	0	30
17-Sep-01	18.3	65.0	41	126	2	0	33
18-Sep-01	18.3	65.0	40	128	2	0	34
19-Sep-01	17.8	64.0	40	130	2	0	34
20-Sep-01	17.3	63.1	41	131	3	0	21
21-Sep-01	17.2	62.9	41	132	3	0	14
22-Sep-01	17.6	63.6	43	133	3	0	13
23-Sep-01	17.7	63.9	42	131	3	0	12
24-Sep-01	18.0	64.4	41	131	3	0	16
25-Sep-01	17.5	63.5	40	136	3	0	18
26-Sep-01	16.6	61.9	51	160	3	0	38
27-Sep-01	16.1	61.0	56	167	3	0	53
28-Sep-01	15.6	60.1	57	167	3	0	56
29-Sep-01	15.2	59.3	55	166	3	0	56
30-Sep-01	15.2	59.3	52	157	3	0	48
01-Oct-01	15.3	59.6	51	162	3	0	29
02-Oct-01	15.7	60.2	49	195	3	0	28
03-Oct-01	15.5	59.9	50	195	2	0	28
04-Oct-01	14.9	58.8	50	196	2	0	28
05-Oct-01	13.9	57.1	51	194	2	0	28
06-Oct-01	13.3	56.0	51	194	1	0	28
07-Oct-01	12.8	55.0	50	195	0	0	28
08-Oct-01	12.9	55.3	54	199	0	0	28
09-Oct-01	12.9	55.2	56	213	11	0	37
10-Oct-01	11.8	53.2	56	215	13	0	44
11-Oct-01	11.9	53.5	69	219	5	0	42
12-Oct-01	12.1	53.8	72	220	0	0	27
13-Oct-01	12.7	54.8	65	210	0	0	26
14-Oct-01	13.4	56.2	61	202	0	0	26
15-Oct-01	13.1	55.6	60	201	0	0	26
16-Oct-01	13.2	55.8	59	200	0	0	25
17-Oct-01	12.7	54.8	59	198	0	0	32
18-Oct-01	11.7	53.1	59	196	0	0	36

FLOW @ DILLON	FLOW @ UMATILLA
14	43
11	58
7	54
5	48
6	65
4	61
8	54
8	61
11	58
10	55
12	53
10	51
10	50
10	52
23	53
66	73
72	118
78	127
78	130
83	150
86	151
89	154
92	158
90	158
86	149
92	151
97	159
95	158
96	157
96	155
98	154
125	174
131	194
131	194
134	197
135	198
137	204
141	207
143	205
142	211
161	224
169	231
165	229
158	224
156	222
156	219
149	218
145	211

19-Oct-01	12.4	54.3	59	197	0	0	33
20-Oct-01	12.7	54.9	59	198	0	0	27
21-Oct-01	12.1	53.7	61	196	0	0	27
22-Oct-01	11.9	53.5	71	212	0	0	26
23-Oct-01	11.1	51.9	81	222	0	0	20
24-Oct-01	10.4	50.7	80	222	0	0	16
25-Oct-01	10.6	51.0	73	214	0	0	16
26-Oct-01	10.7	51.3	70	211	0	0	16
27-Oct-01	10.6	51.1	69	211	0	0	16
28-Oct-01	10.6	51.0	72	215	0	0	16
29-Oct-01	10.3	50.5	72	213	0	0	16
30-Oct-01	10.4	50.7	75	218	0	0	16
31-Oct-01	10.6	51.0	91	227	0	0	10

Appendix A. (continued)

	3MD TEMPERATURES		FLOW @	FLOW @	SFC	CSC	WLC
Date	C	F	PENDLETON	YOAKUM	FLOWS	FLOWS	FLOWS
01-Nov-01	10.7	51.3	101	248	0	0	1
02-Nov-01	11.5	52.7	91	241	0	0	0
03-Nov-01	11.4	52.5	85	234	0	0	0
04-Nov-01	11.0	51.8	81	227	0	0	0
05-Nov-01	10.6	51.0	80	226	0	0	0
06-Nov-01	9.2	48.5	79	223	0	0	0
07-Nov-01	7.7	45.8	80	221	0	0	0
08-Nov-01	6.7	44.0	79	222	0	0	0
09-Nov-01	6.5	43.7	77	226	0	0	0
10-Nov-01	6.3	43.4	74	223	0	0	0
11-Nov-01	6.8	44.3	74	222	0	0	0
12-Nov-01	6.9	44.5	74	223	0	0	0
13-Nov-01	7.2	44.9	75	225	0	0	0
14-Nov-01	8.8	47.9	81	228	0	0	0
15-Nov-01	10.1	50.2	92	238	0	0	0
16-Nov-01	10.9	51.7	92	240	0	0	0
17-Nov-01	10.8	51.4	98	245	0	0	0
18-Nov-01	9.3	48.7	104	223	0	0	0
19-Nov-01	8.3	46.9	105	200	0	0	0
20-Nov-01	8.1	46.5	104	167	0	0	0
21-Nov-01	8.4	47.1	113	149	0	0	0
22-Nov-01	9.1	48.4	126	150	0	0	0
23-Nov-01	8.8	47.8	367	291	0	0	0
24-Nov-01	7.3	45.2	378	398	0	0	0
25-Nov-01	6.7	44.1	306	338	0	0	0
26-Nov-01	6.2	43.1	267	303	0	0	0
27-Nov-01	5.2	41.4	236	271	0	0	0
28-Nov-01	5.1	41.1	230	261	0	0	0
29-Nov-01	5.6	42.1	224	259	0	0	0
30-Nov-01	5.8	42.5	223	256	0	0	0
01-Dec-01	6.6	43.9	219	252	0	0	0
02-Dec-01	6.5	43.7	219	252	0	0	0
03-Dec-01	6.0	42.8	241	265	0	0	0
04-Dec-01	5.8	42.4	263	286	0	0	0
05-Dec-01	5.7	42.3	256	286	0	0	0

151	210
159	219
162	222
174	229
184	234
190	238
200	258
205	270
200	266
198	265
195	266
198	270
214	278

FLOW @ DILLON	FLOW @ UMATILLA
246	307
232	316
216	301
210	295
205	289
200	285
199	282
201	277
210	283
207	285
203	281
200	281
204	280
206	280
217	283
222	296
234	307
208	288
184	267
156	242
139	217
136	203
223	207
453	458
383	441
283	385
287	346
264	325
267	319
254	305
248	300
246	296
262	300
295	321
302	336

06-Dec-01	5.7	42.3	244	276	0	0	0
07-Dec-01	5.8	42.4	273	288	0	0	0
08-Dec-01	5.6	42.1	297	320	0	0	0
09-Dec-01	5.4	41.7	300	326	0	0	0
10-Dec-01	5.3	41.5	284	313	0	0	0
11-Dec-01	5.6	42.0	269	298	0	0	0
12-Dec-01	5.8	42.5	247	288	0	0	0
13-Dec-01	6.5	43.7	256	284	0	0	0
14-Dec-01	6.7	44.0	713	723	0	75	0
15-Dec-01	4.8	40.7	619	755	0	139	0
16-Dec-01	5.7	42.2	505	571	0	149	0
17-Dec-01	6.8	44.2	475	497	0	159	0
18-Dec-01	5.1	41.1	471	467	0	183	46
19-Dec-01	4.2	39.6	421	435	0	194	31
20-Dec-01	4.6	40.3	370	399	0	154	0
21-Dec-01	5.1	41.1	337	367	0	88	0
22-Dec-01	5.4	41.8	308	344	0	0	0
23-Dec-01	5.3	41.6	281	318	0	0	0
24-Dec-01	4.5	40.1	258	295	0	0	0
25-Dec-01	4.4	40.0	237	274	0	0	0
26-Dec-01	4.1	39.3	218	255	0	0	0
27-Dec-01	3.2	37.8	205	243	0	0	0
28-Dec-01	2.9	37.3	199	240	0	0	0
29-Dec-01	3.2	37.7	182	232	0	0	0
30-Dec-01	3.4	38.2	172	220	0	0	0
31-Dec-01	3.8	38.8	166	212	0	0	0

Appendix A. (continued)

	3MD TEMPERATURES		FLOW @	FLOW @	SFC	CSC	WLC
Date	C	F	PENDLETON	YOAKUM	FLOWS	FLOWS	FLOWS
01-Jan-02	4.3	39.7	160	205	0	0	0
02-Jan-02	4.8	40.7	159	204	0	0	0
03-Jan-02	5.2	41.4	208	234	0	0	0
04-Jan-02	5.0	41.0	297	312	0	0	0
05-Jan-02	4.6	40.2	330	318	0	0	0
06-Jan-02	5.1	41.1	330	350	0	0	0
07-Jan-02	6.1	42.9	649	487	0	98	0
08-Jan-02	8.4	47.2	1250	1320	0	194	0
09-Jan-02	6.8	44.2	1580	1640	0	205	0
10-Jan-02	5.7	42.2	1120	1210	0	219	0
11-Jan-02	5.7	42.3	831	939	0	224	0
12-Jan-02	6.4	43.6	673	765	0	217	0
13-Jan-02	5.8	42.5	590	658	0	210	0
14-Jan-02	4.7	40.5	536	594	0	206	0
15-Jan-02	3.8	38.8	471	541	0	206	0
16-Jan-02	3.4	38.2	411	485	0	188	0
17-Jan-02	4.1	39.4	375	448	0	136	0
18-Jan-02	4.1	39.3	337	408	0	72	0
19-Jan-02	4.8	40.6	329	387	0	0	0
20-Jan-02	5.4	41.8	314	370	0	0	0
21-Jan-02	5.6	42.0	314	356	0	0	0
22-Jan-02	4.7	40.4	323	358	0	0	0

290	336
300	323
353	358
363	381
356	389
337	359
319	353
299	332
635	442
819	893
548	650
412	481
274	375
224	312
236	300
267	291
358	386
330	372
300	347
271	325
245	303
230	288
224	285
213	277
198	264
188	254

FLOW @ DILLON	FLOW @ UMATILLA
184	247
180	245
200	249
302	304
370	391
375	409
363	392
1110	807
1690	1380
1050	1240
736	906
582	676
493	564
426	470
365	404
301	345
307	338
333	332
388	412
379	410
377	392
381	399

23-Jan-02	3.7	38.6	308	350	0	0	0
24-Jan-02	4.2	39.6	291	333	0	0	0
25-Jan-02	5.8	42.4	401	369	0	0	0
26-Jan-02	6.5	43.7	545	582	0	88	0
27-Jan-02	4.7	40.4	530	563	0	187	0
28-Jan-02	3.2	37.7	450	493	0	219	0
29-Jan-02	2.3	36.1	400	435	0	179	0
30-Jan-02	2.8	37.0	398	410	0	133	0
31-Jan-02	3.7	38.6	354	386	0	124	0
01-Feb-02	4.9	40.9	337	367	0	83	0
02-Feb-02	5.2	41.4	312	346	0	82	0
03-Feb-02	4.9	40.8	297	331	0	30	0
04-Feb-02	4.4	40.0	281	323	0	0	0
05-Feb-02	3.9	39.0	266	311	0	0	0
06-Feb-02	3.2	37.8	262	310	0	0	0
07-Feb-02	4.4	39.9	268	317	0	0	0
08-Feb-02	5.6	42.0	303	342	0	0	0
09-Feb-02	5.6	42.0	319	374	0	0	0
10-Feb-02	5.1	41.1	315	372	0	0	0
11-Feb-02	5.2	41.3	313	372	0	0	0
12-Feb-02	4.8	40.7	306	367	0	0	0
13-Feb-02	4.2	39.5	299	361	0	0	0
14-Feb-02	4.2	39.6	299	361	0	0	0
15-Feb-02	4.4	40.0	301	363	0	0	0
16-Feb-02	4.8	40.6	302	372	0	0	0
17-Feb-02	5.1	41.2	315	384	0	0	0
18-Feb-02	6.2	43.1	331	399	0	0	0
19-Feb-02	7.3	45.2	378	429	0	81	0
20-Feb-02	7.1	44.7	452	485	0	141	0
21-Feb-02	7.2	44.9	500	517	0	198	0
22-Feb-02	7.8	46.1	771	674	0	228	56
23-Feb-02	8.9	48.1	1660	1200	0	225	73
24-Feb-02	6.7	44.0	3740	3820	0	173	58
25-Feb-02	4.3	39.7	2110	2550	0	208	58
26-Feb-02	4.0	39.2	1510	1630	0	201	58
27-Feb-02	3.9	39.1	1040	1220	0	220	56
28-Feb-02	4.7	40.5	855	984	0	222	54

Appendix A. (continued)

	3MD TEMPERATURES		FLOW @	FLOW @	SFC	CSC	WLC
Date	C	F	PENDLETON	YOAKUM	FLOWS	FLOWS	FLOWS
01-Mar-02	5.2	41.3	692	800	0	203	54
02-Mar-02	5.1	41.1	585	667	0	186	54
03-Mar-02	5.3	41.5	506	577	0	173	54
04-Mar-02	5.7	42.3	453	525	0	167	54
05-Mar-02	6.8	44.3	420	498	0	167	53
06-Mar-02	6.8	44.2	421	496	0	168	53
07-Mar-02	6.3	43.3	455	518	0	176	53
08-Mar-02	6.1	43.0	455	522	0	179	53
09-Mar-02	6.1	42.9	436	514	0	180	54
10-Mar-02	6.4	43.6	419	497	0	177	53
11-Mar-02	7.8	46.0	422	495	0	175	42

372	399
359	381
372	370
517	533
449	538
340	400
279	309
289	324
268	312
264	303
257	300
233	279
275	280
302	336
298	330
305	336
319	342
360	378
364	394
359	390
354	385
344	377
340	372
341	370
345	372
356	382
364	395
305	394
291	316
274	346
336	329
647	618
3250	1310
2640	2190
1520	1550
977	1080
709	809

FLOW @ DILLON	FLOW @ UMATILLA
567	645
467	523
387	430
329	363
271	315
262	309
278	308
281	307
273	304
253	291
254	281

12-Mar-02	9.1	48.3	747	705	0	201	46
13-Mar-02	8.5	47.3	1130	1160	0	231	58
14-Mar-02	7.2	44.9	1050	1120	0	226	59
15-Mar-02	7.1	44.7	898	968	0	224	59
16-Mar-02	6.6	43.9	810	960	0	224	60
17-Mar-02	5.9	42.6	702	769	0	223	61
18-Mar-02	5.8	42.4	602	682	0	199	61
19-Mar-02	6.0	42.8	573	635	0	134	61
20-Mar-02	6.6	43.9	642	696	0	112	57
21-Mar-02	6.0	42.8	671	727	0	150	56
22-Mar-02	5.9	42.7	667	729	0	150	58
23-Mar-02	6.0	42.8	677	721	0	150	58
24-Mar-02	6.8	44.3	1350	1160	0	175	58
25-Mar-02	7.4	45.3	3090	3360	0	204	58
26-Mar-02	7.7	45.8	2180	2700	35	219	58
27-Mar-02	7.8	46.1	1940	2180	53	214	82
28-Mar-02	8.3	46.9	1670	1860	52	226	96
29-Mar-02	8.8	47.8	1420	1590	51	228	96
30-Mar-02	9.6	49.3	1310	1470	51	230	93
31-Mar-02	10.6	51.0	1440	1560	68	235	95
01-Apr-02	10.2	50.3	1660	1830	74	233	96
02-Apr-02	8.9	48.0	1490	1710	74	230	103
03-Apr-02	8.6	47.5	1260	1490	80	227	127
04-Apr-02	9.4	49.0	1250	1460	83	229	147
05-Apr-02	10.2	50.4	1460	1680	88	241	165
06-Apr-02	10.1	50.2	1770	2090	89	237	175
07-Apr-02	9.8	49.6	1750	2140	88	221	186
08-Apr-02	9.8	49.6	1660	1980	89	219	187
09-Apr-02	10.2	50.3	1630	1870	88	216	184
10-Apr-02	9.7	49.5	2000	2310	88	222	179
11-Apr-02	10.2	50.3	2300	2910	88	208	175
12-Apr-02	10.6	51.1	2600	3210	89	202	167
13-Apr-02	10.7	51.3	2880	3490	90	203	174
14-Apr-02	10.3	50.5	473	5030	92	189	178
15-Apr-02	8.3	46.9	3790	4750	93	175	175
16-Apr-02	7.6	45.7	2190	2970	93	175	163
17-Apr-02	8.7	47.6	1670	2190	93	167	159
18-Apr-02	9.3	48.8	143	1740	90	168	169
19-Apr-02	10.1	50.2	1140	1440	91	173	186
20-Apr-02	11.4	52.6	980	1260	90	169	193
21-Apr-02	12.1	53.7	902	1160	87	165	194
22-Apr-02	12.2	54.0	928	1130	90	162	193
23-Apr-02	11.6	52.8	1040	1200	94	167	188
24-Apr-02	11.0	51.8	930	1130	102	166	184
25-Apr-02	11.5	52.7	863	1030	106	105	187
26-Apr-02	12.4	54.4	878	1020	112	0	184
27-Apr-02	12.7	54.9	890	1040	114	0	186
28-Apr-02	12.4	54.3	860	992	111	0	188
29-Apr-02	13.3	55.9	867	960	113	0	192
30-Apr-02	13.9	57.0	937	1020	118	0	202

Appendix A. (continued)

371	305
825	752
857	897
702	775
599	657
519	571
456	485
450	458
520	528
514	505
522	517
509	498
702	578
2970	1270
2580	1400
1910	1560
1500	1480
1170	1230
988	1070
1080	1070
1360	1260
1290	1300
964	1050
863	923
1040	990
1510	1280
1670	1520
1480	1390
1340	1270
1770	1460
2530	2050
2750	2190
3120	2570
4560	3050
4380	4950
2510	2840
1660	1840
1190	1360
909	1020
759	820
683	679
661	605
700	633
664	643
614	521
682	622
695	631
667	623
614	546
642	563

Date	3MD TEMPERATURES C	F	FLOW @ PENDLETON	FLOW @ YOAKUM	SFC FLOWS	CSC FLOWS	WLC FLOWS
01-May-02	14.4	58.0	967	1060	119	0	216
02-May-02	14.5	58.1	1030	1120	120	0	217
03-May-02	13.1	55.6	1100	1180	120	0	211
04-May-02	11.9	53.4	953	1040	119	0	210
05-May-02	11.7	53.0	864	934	115	0	211
06-May-02	11.3	52.3	735	827	109	0	211
07-May-02	10.9	51.7	641	719	110	0	199
08-May-02	11.6	52.9	570	649	99	0	181
09-May-02	13.4	56.2	524	588	77	0	178
10-May-02	14.7	58.4	494	560	45	0	179
11-May-02	15.3	59.5	479	541	30	0	179
12-May-02	16.0	60.8	498	541	28	0	185
13-May-02	16.0	60.8	585	597	20	0	195
14-May-02	14.9	58.9	698	698	19	0	203
15-May-02	15.6	60.0	701	722	29	0	211
16-May-02	16.1	61.0	672	691	60	0	224
17-May-02	16.8	62.3	669	676	61	0	225
18-May-02	16.7	62.1	673	674	61	0	221
19-May-02	16.4	61.6	767	752	61	0	217
20-May-02	16.1	60.9	909	871	62	0	204
21-May-02	14.8	58.6	820	819	62	0	187
22-May-02	13.8	56.9	683	701	62	0	157
23-May-02	14.8	58.6	618	619	57	0	157
24-May-02	16.3	61.3	581	591	62	0	171
25-May-02	16.9	62.5	564	558	61	0	181
26-May-02	17.4	63.3	559	549	26	0	195
27-May-02	18.6	65.4	606	578	1	0	203
28-May-02	18.5	65.3	707	655	0	0	203
29-May-02	18.8	65.8	725	693	0	0	199
30-May-02	18.9	66.0	692	649	0	0	189
31-May-02	18.9	66.0	587	569	0	0	183
01-Jun-02	18.5	65.3	520	514	0	0	188
02-Jun-02	18.4	65.1	460	475	0	0	191
03-Jun-02	19.2	66.5	406	428	0	0	192
04-Jun-02	19.9	67.8	356	394	3	0	192
05-Jun-02	20.2	68.4	317	386	4	0	191
06-Jun-02	19.1	66.4	286	406	4	0	203
07-Jun-02	17.4	63.4	257	407	4	0	218
08-Jun-02	16.2	61.1	236	414	1	0	210
09-Jun-02	15.8	60.5	242	416	0	0	200
10-Jun-02	17.0	62.6	263	404	0	0	188
11-Jun-02	19.0	66.2	242	372	0	0	189
12-Jun-02	20.4	68.7	206	382	0	0	196
13-Jun-02	21.6	70.8	183	389	0	0	192
14-Jun-02	22.6	72.6	167	399	0	0	193
15-Jun-02	22.9	73.3	155	401	0	0	196
16-Jun-02	21.8	71.3	140	395	1	0	188
17-Jun-02	19.4	66.9	137	384	3	0	180
18-Jun-02	18.9	66.0	164	387	3	0	177

FLOW @ DILLON	FLOW @ UMATILLA
685	622
714	657
758	707
682	678
595	558
510	491
401	367
348	298
281	284
274	309
269	291
275	292
317	306
422	353
448	393
386	334
373	317
348	333
442	370
556	491
562	574
483	493
387	369
356	313
299	261
295	251
339	266
406	331
463	421
434	417
369	358
297	283
248	275
204	261
168	221
150	178
164	189
161	193
178	201
196	227
200	255
169	233
162	196
164	184
168	181
172	191
174	191
175	202
178	203

19-Jun-02	18.8	65.8	205	384	4	0	164
20-Jun-02	19.6	67.3	167	342	4	0	157
21-Jun-02	20.9	69.7	145	341	5	0	159
22-Jun-02	21.9	71.4	131	349	4	0	166
23-Jun-02	22.1	71.8	123	361	4	0	169
24-Jun-02	22.1	71.8	117	377	25	0	169
25-Jun-02	22.6	72.6	109	377	30	0	161
26-Jun-02	23.5	74.3	103	381	30	0	162
27-Jun-02	23.6	74.4	98	384	31	0	162
28-Jun-02	22.3	72.1	93	387	31	0	158
29-Jun-02	21.6	70.9	95	381	32	0	156
30-Jun-02	20.9	69.6	95	352	31	0	155

Appendix A. (continued)

	3MD TEMPERATURES		FLOW @	FLOW @	SFC	CSC	WLC
Date	C	F	PENDLETON	YOAKUM	FLOWS	FLOWS	FLOWS
01-Jul-02	20.6	69.1	88	335	31	0	150
02-Jul-02	21.2	70.2	85	324	29	0	151
03-Jul-02	20.8	69.5	82	310	23	0	144
04-Jul-02	19.3	66.8	79	298	23	0	139
05-Jul-02	19.3	66.7	78	278	21	0	136
06-Jul-02	20.5	68.9	75	258	18	0	146
07-Jul-02	21.9	71.5	72	227	13	0	147
08-Jul-02	22.1	71.7	73	200	7	0	135
09-Jul-02	22.7	72.9	72	177	5	0	131
10-Jul-02	24.8	76.7	67	167	7	0	131
11-Jul-02	26.7	80.0	64	164	16	0	132
12-Jul-02	26.8	80.2	62	171	16	0	137
13-Jul-02	27.6	81.7	59	188	11	0	154
14-Jul-02	23.9	75.1	58	193	0	0	169
15-Jul-02	22.4	72.4	58	193	0	0	173
16-Jul-02	23.4	74.2	55	193	0	0	166
17-Jul-02	24.9	76.8	51	200	0	0	166
18-Jul-02	24.0	75.2	50	196	0	0	170
19-Jul-02	21.6	70.8	49	201	0	0	173
20-Jul-02	21.8	71.3	50	228	17	0	172
21-Jul-02	22.0	71.6	48	229	16	0	173
22-Jul-02	23.1	73.5	46	224	17	0	165
23-Jul-02	24.9	76.9	45	225	16	0	160
24-Jul-02	26.2	79.1	43	227	15	0	159
25-Jul-02	24.8	76.7	44	215	16	0	156
26-Jul-02	22.2	72.0	43	201	10	0	152
27-Jul-02	20.6	69.1	40	188	0	0	151
28-Jul-02	22.2	71.9	39	189	0	0	163
29-Jul-02	22.8	73.1	36	203	0	0	171
30-Jul-02	23.1	73.5	36	203	0	0	175
31-Jul-02	21.4	70.6	34	199	0	0	176
01-Aug-02	19.9	67.8	35	193	0	0	165
02-Aug-02	19.0	66.2	34	218	24	0	161
03-Aug-02	19.3	66.8	34	229	32	0	166
04-Aug-02	17.5	63.5	34	218	31	0	162
05-Aug-02	17.2	62.9	40	218	32	0	150

190	224
156	204
162	190
161	183
162	193
161	193
158	191
158	192
158	197
171	192
182	222
162	207

FLOW @ DILLON	FLOW @ UMATILLA
153	172
138	137
134	129
131	135
98	124
80	96
62	78
51	60
38	51
29	21
13	2
16	2
11	1
15	1
6	1
6	1
5	2
4	1
4	1
3	1
4	1
5	1
7	1
13	2
7	1
5	1
6	1
4	3
5	2
4	2
4	2
5	1
7	1
6	1
6	1
6	1

06-Aug-02	18.9	66.1	41	207	30	0	137
07-Aug-02	19.8	67.6	40	171	16	0	127
08-Aug-02	19.6	67.3	39	171	17	0	123
09-Aug-02	20.4	68.7	37	178	17	0	127
10-Aug-02	21.9	71.4	34	195	17	0	144
11-Aug-02	21.4	70.6	33	194	17	0	156
12-Aug-02	21.0	69.8	32	192	17	0	158
13-Aug-02	21.9	71.4	31	175	12	0	147
14-Aug-02	22.8	73.0	30	166	0	0	142
15-Aug-02	21.7	71.0	28	173	0	0	143
16-Aug-02	21.8	71.2	27	184	0	0	147
17-Aug-02	21.7	71.1	27	186	0	0	141
18-Aug-02	21.6	70.8	28	175	0	0	134
19-Aug-02	20.8	69.4	28	190	16	0	141
20-Aug-02	20.6	69.1	29	188	21	0	147
21-Aug-02	20.8	69.5	30	183	15	0	151
22-Aug-02	21.1	69.9	35	175	14	0	150
23-Aug-02	21.8	71.3	36	134	8	0	38
24-Aug-02	21.4	70.6	33	143	15	0	37
25-Aug-02	21.7	71.0	31	141	15	0	38
26-Aug-02	21.7	71.1	30	128	6	0	38
27-Aug-02	21.8	71.3	33	122	1	0	38
28-Aug-02	22.0	71.6	33	112	0	0	22
29-Aug-02	22.1	71.7	31	107	0	0	13
30-Aug-02	21.4	70.6	30	105	0	0	14
31-Aug-02	21.1	70.0	30	104	0	0	13

9	1
6	3
3	1
3	1
3	1
7	1
8	1
6	1
11	2
6	1
5	28
19	45
17	43
11	45
12	39
9	39
7	40
66	38
69	80
63	91
60	80
63	77
69	94
66	104
62	94
62	93