#### UPPER MISSISSIPPI RIVER BASIN

### 05267000 MISSISSIPPI RIVER NEAR ROYALTON, MN

### (National Water-Quality Assessment Station)

LOCATION.--Lat 45° 51'41", long 94° 21'33", in lot 2, sec. 20, T. 39 N., R. 32 W., Morrison County, Hydrologic Unit 07010104, at plant of Minnesota Power Co., 4 mi northwest of Royalton, 4.5 mi downstream from Swan River, and at mile 956 upstream from Ohio River.

DRAINAGE AREA.--11,600 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--March 1924 to current year.

REMARKS.--Records fair. Discharge determined based on nearby gaging stations, furnished record from Minnesota Power Co., and observed flow. Flow partly regulated by power plants and Winnibigoshish, Leech, Pokegama, Sandy, and Gull Lakes and by Pine River Reservoir (see stations 05201000, 05206000, 05210500, 05218500, 05230500, 05246500).

COOPERATION.--Records collected by Minnesota Power Co. under general supervision of Geological Survey, in connection with a Federal Power Commission project.

#### DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

### **DAILY MEAN VALUES**

DAY JUL	OCT AUG	NOV SEP	DEC	JAN	FEB	MAR	APR	MAY	JUN
1 9950	2830 8800	7850 4960	8200	6100	5350	5500	10500	16700	7450
2 11000	2930 8800	7900 4830	7900	5900	5450	5400	15000	16300	7250
3	2940	8150	7600	6100	5500	5400	18900	15600	6900
11100	9100 2830	4630 8700	8400	6000	5550	5300	24200	14800	6650
11700	8400 2860	4430 8950	8100	5750	5550	5150	27200	14700	6350
12300	8000	4420							
6 12900	2860 7850	8850 4460	8350	5350	5600	5150	31800	14400	6000
7 13000	2840 7550	8650 4390	8350	5200	5550	5250	36600	13900	5900
8	2870 6950	9000	8050	5100	5500	5350	38200	12200	5550
9	2950	8950	8000	4990	5500	5350	38100	11800	5350
12700 10	6900 2890	4380 8800	8100	4850	5450	5400	37300	12600	5450

12600	6750	4200							
11 12100	2810 6500	8400 4250	8150	4790	5500	5450	36300	12000	5300
12 11900	2590 6200	7800	8150	4770	5500	5500	34300	11800	4990
13	2720	4300 7150	7950	4820	5450	5450	32100	11500	4800
12100	6000 2470	4220 6100	7700	4970	5450	5350	30000	11300	4490
11800 15	5850 2830	4210 5500	7300	4990	5450	5350	28600	10800	4590
12200	5650	4220							
16 12600	2670 5550	5850 4380	7400	5050	5400	5400	27200	10700	4490
17 12300	3460 5400	7200 4430	7100	5250	5450	5450	26100	10200	4480
18 11900	3640 5100	7000 4260	6900	5350	5450	5450	25000	10200	4510
19 11200	3800 5350	7300 4510	6650	5400	5450	5450	24500	9950	4400
20 10600	4760 5800	7700 4480	6750	5450	5450	5550	23700	9400	4310
21		7600	6750	5550	E4E0	5550	23100	8850	4130
10400	5050 5350	4510			5450				
22 10100	5250 5100	8050 4800	6850	5550	5450	5500	21600	8850	4340
23 9700	5700 5450	7850 4890	6750	5600	5500	5500	21000	8450	4200
24 9250	5700 5550	7550 4550	6700	5550	5500	5500	20300	8800	4580
25 9650	5850 5400	7700 4520	6600	5500	5550	5550	19700	9250	4930
26	6000	7450	6450	5450	5550	5600	19300	9200	5350
9400 27	5300 6100	4720 7800	6350	5500	5450	5800	18800	8850	5900
9650 28	5400 6000	4390 7700	6250	5450	5450	6150	18300	8650	6750
10500 29	5450 6500	4630 7950	6200	5450		6850	17900	8950	7400
10100 30	5350 7100	4580 8250	6150	5400		8400	17400	8550	8600
9750 31	5100 7450	4390 	6050	5300		8950		8100	
9350	5000								
TOTAL 346800	127250 194950	233700 134200	226200	166480	153450	177000	763000	347350	165390
MEAN 11190	4105 6289	7790 4473	7297	5370	5480	5710	25430	11200	5513
MAX 13000	7450 9100	9000 4960	8400	6100	5600	8950	38200	16700	8600
MIN	2470	5500	6050	4770	5350	5150	10500	8100	4130

9250	5000	4200							
AC-FT	252400	463500	448700	330200	304400	351100	1513000	689000	328100
687900	386700	266200							
CFSM	.35	.67	.63	.46	.47	.49	2.19	.97	.48
.96	.54	.39							
IN.	.41	.75	.73	.53	.49	.57	2.45	1.11	.53
1.11	.63	.43							

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1997, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
MEAN	4113	3901	3058	2711	2598	3801	9226	8624	6388
4845	3677	3546							
MAX	12930	14640	7297	5713	5480	12290	25430	24600	18160
15250	15230	12940							
(WY)	1966	1972	1997	1966	1997	1966	1997	1950	1965
1993	1953	1986							
MIN	632	618	627	534	758	968	1924	1663	1071
648	449	535							
(WY)	1937	1937	1935	1935	1937	1940	1931	1977	1988
1988	1934	1934							

# (National Water-Quality Assessment Station)

PERIOD OF RECORD.--Water years 1963-66, 1975 to current year, NASQAN discontinued.

#### PERIOD OF DAILY RECORD:

WATER TEMPERATURES.-- May 1996 to current year.

INSTRUMENTATION.-- Water-temperature monitor since May 1996.

REMARKS.-- Samples collected and sensor located at Co. Rd. 26 bridge 3.2 mi west of Royalton. Records represent water temperature at sensor within 0.5 oC; Temperature at the sensor was compared with the average for the river by temperature cross section on Oct. 1, Nov. 19, Dec. 4, Apr. 21, May 6, June 5 and 10, July 2 and 18, Aug. 21, and Sept. 10. Variation was within 0.5 °C.

#### EXTREMES FOR PERIOD OF DAILY RECORD:

WATER TEMPERATURES.-- Maximum, 27.0 °C, June 30, 1996; minimum, 0.0 °C, on many days during winter.

### EXTREMES FOR CURRENT YEAR:

WATER TEMPERATURES.-- Maximum 26.5 °C, July 18; minimum, 0.0 °C, on many days during

winter

# WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY MAX	MAX MIN	MIN MEAN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
DECEMB		OCTOBER	JANUARY	Ĭ.	NOVEMBER					
	15.5	12.5	13.5	3.5	2.5	3.0	.0	.0	.0	
2	14.0	12.5	13.0	2.5	2.0	2.0	.0	.0	.0	
3	 14.5	12.0	13.0	2.5	1.5	2.0	.0	.0	.0	
4		12.0	13.0	2.5	2.0	2.5				
5		12.0	13.0	3.0	2.5	2.5				
6	12.0	11.5	12.0	3.0	3.0	3.0				
7		11.0	12.0	3.0	2.5	3.0				
8	13.5	11.5	12.5	2.5	2.5	2.5				
9	13.0	11.5	12.0	2.5	1.5	2.0				
10		10.5	11.5	1.5	1.0	1.5				
11	12.0		11.0	1.0	.5	.5				
12		10.0	11.0	.5	.0	.5				
13		10.0	11.0	.5	.0	.0				
14	12.5	10.5	11.0	.5	.0	.0				
15		10.5	11.5	.0	.0	.0				
16	13.0	11.0	12.0	. 5	.0	.0				
17		10.5	11.5	.5	.0	.0				
18	11.0 	10.0	10.5	.5	.0	.0				

19	10.5	9.0	9.5	.0	.0	.0	 	 
20 _	9.0	8.0	8.5	.0	.0	.0	 	 
21	9.0	8.0	8.0	.0	.0	.0	 	 
22	8.5	8.0	8.5	.0	.0	.0	 	 
23	8.0	7.5	8.0	.0	.0	.0	 	 
24	7.5	7.0	7.0	.0	.0	.0	 	 
25	7.5	7.0	7.0	.0	.0	.0	 	 
_								
26	7.5	7.0	7.0	.0	.0	.0	 	 
27	8.0	7.5	8.0	.0	.0	.0	 	 
28	8.5	7.5	8.0	.0	.0	.0	 	 
29	7.5	7.0	7.0	.0	.0	.0	 	 
30	7.0	5.5	6.0	.0	.0	.0	 	 
31	5.5	3.5	4.5				 	 
- MONTH	15.5	3.5	10.1	3.5	.0	.8	 	 
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# WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY MAX	MAX MIN	MIN MEAN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
APRIL		FEBRUARY	MAY		MARCH				
1									
11.5 2 12.0	11.0  11.0	11.0  11.5							
3 11.5	11.0	11.5							
4	11.0	11.5							
5 13.0	 11.5	12.0							
6									

12.5 7	11.5	12.0		 			
13.0	12.0	12.5	 	 			
8 12.0	 11.5	12.0	 	 			
9 12.5	 11.0	 11.5	 	 			
10			 	 			
13.0	11.0	12.0					
11 12.5	 11.5	 12.5	 	 			
12 11.5	 10.5	 11.0	 	 			
13 11.5	 10.5	 11.0	 	 			
14			 	 			
10.5 15	9.5 	10.0	 	 			
10.5	9.5	10.0					
16 11.5	 9.5	 10.5	 	 			
17 13.0	10.5	 11.5	 	 			
18			 	 			
13.0 19	12.0	12.5 	 	 			
13.0 20	12.5	12.5	 	 			
13.0	11.5	12.5					
21 14.5		12.0	 	 			
22	11.5	13.0	 	 	9.5	9.0	9.0
14.0 23	13.0	13.5 	 	 	10.0	9.5	9.5
13.5 24	13.0	13.5	 	 	10.0	9.5	9.5
13.5 25	13.0	13.0	 	 	10.5	10.0	10.5
14.0	12.5	13.0			10.5	10.0	10.5
26			 	 	11.0	10.5	10.5
14.5 27	13.0	13.5	 	 	11.0	10.5	11.0
15.0 28	13.5	14.0	 	 	11.5	11.0	11.5
14.5 29	14.0	14.5	 	 	12.5	11.5	12.0
14.5	14.0	14.5					
30 16.0	 14.0	 15.0	 	 	12.0	11.0	11.5
31 17.5	 15.0	 16.0	 	 			

MONTH --- -- --- --- --- --- 17.5 9.5 12.4

# WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
MAX	MIN	MEAN JUNE			JULY			AUGUST	-
SEPTEM									
1	19.0	17.0	18.0	25.0	23.5	24.5	25.0	23.5	24.0
23.0	21.5	22.0							
2	19.5	18.0	18.5	24.5	22.5	23.5	25.5	23.0	24.0
23.5	21.5	22.0							
3	20.0	18.5	19.0	22.5	21.0	22.0	26.0	24.0	25.0
22.5	20.5	21.5	10.0	22.5	21.0	22.0	20.0	21.0	23.0
			10 5	01 5	20 5	01 0	26.0	04 5	25 0
4	20.5	19.0	19.5	21.5	20.5	21.0	26.0	24.5	25.0
22.0	20.5	21.0							
5	21.0	19.5	20.0	22.0	20.5	21.0	25.5	24.5	25.0
22.0	20.0	21.0							
6	21.5	20.0	20.5	21.0	20.0	20.5	25.5	24.0	24.5
21.5	20.0	20.5							
7	22.0	20.5	21.0	20.5	19.5	20.0	25.5	23.5	24.5
21.5	20.0	20.5							
8	22.5	20.5	21.5	19.5	18.5	19.0	26.0	24.0	24.5
22.0	20.5		21.5	17.5	10.5	17.0	20.0	24.0	24.5
		21.0	00.0	10 5	10 5	100	0.4 5	00 5	0.4.0
9	23.0	21.0	22.0	19.5	18.5	19.0	24.5	23.5	24.0
21.5	20.0	20.5							
10	23.5	21.0	22.0	20.5	18.5	19.5	24.0	22.5	23.0
22.0	19.5	20.5							
11	24.5	21.5	22.5	21.0	19.5	20.5	23.5	21.5	22.0
22.0	20.0	20.5							
12	24.0	22.0	23.0	22.5	20.5	21.5	23.0	21.5	22.0
21.0	19.5	20.0							
13	24.5	22.5	23.0	23.0	21.5	22.0	23.5	21.5	22.0
20.5	19.5	20.0	20.0				20.0		
14	24.5	22.0	23.0	24.0	22.0	23.0	21.5	20.5	21.0
20.5	19.0	20.0	23.0	24.0	22.0	23.0	21.5	20.5	21.0
			02.0	04 5	00 5	02 5	01 5	00 5	01 0
15	24.5	22.5	23.0	24.5	22.5	23.5	21.5	20.5	21.0
20.0	19.5	19.5							
16	24.0	22.0	23.0	25.5	23.5	24.5	21.5	20.0	20.5
20.0	19.5	19.5							
17	23.0	21.5	22.0	26.0	24.5	25.5	20.0	19.5	19.5
			22.0	20.0	24.5	23.3	20.0	17.5	17.5
20.5	19.0	19.5	04 =			0.5			
18	21.5	21.0	21.5	26.5	25.5	26.0	20.5	19.0	20.0
21.0	19.0	19.5							
19	22.5	20.5	21.5	25.5	24.5	25.0	19.5	19.0	19.0
20.0	18.5	19.0							
20	23.0	20.5	21.5	24.5	24.0	24.0	20.5	19.0	19.5
19.5	18.0	18.5							

21	23.5	21.0	22.0	25.0	24.0	24.5	20.5	18.5	19.0	
19.0 22	17.0 24.0	17.5 22.0	22.5	24.0	23.0	24.0	20.5	18.5	19.5	
17.0 23	16.5 25.0	17.0 22.0	23.5	23.0	22.5	22.5	21.5	19.0	20.0	
18.0 24 17.5	16.0 25.0 15.5	16.5 23.5 16.0	23.5	23.0	22.0	22.5	22.0	20.0	21.0	
25 18.0	25.0 16.0	23.5 16.5	24.0	24.0	22.5	23.0	22.0	20.5	21.0	
26	25.0	23.5	24.0	25.5	23.5	24.0	23.0	21.0	22.0	
18.0 27	16.0 25.5	16.5 23.5	24.0	25.5	24.5	25.0	23.5	21.5	22.0	
18.5	16.5	17.0								
28 17.5	24.5	24.0	24.0	25.5	24.0	25.0	24.0	21.5	22.5	
29 16.5	24.5 16.0	23.0 16.0	24.0	25.5	24.0	24.5	22.5	22.0	22.5	
30 17.0	24.5 15.0	22.5 15.5	23.5	25.5	24.0	24.5	23.5	22.0	22.5	
31				24.5	24.0	24.5	23.5	21.0	22.0	
MONTH 23.5	25.5 15.0	17.0 19.1	22.0	26.5	18.5	22.9	26.0	18.5	22.1	

# WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

OWNER		DIS-		SPE-	PH	PH		BARO-		
OXYGEN,		CHARGE,	,	SPE-	CIFIC	WATER	WATER			
METRIC		DIS- INST.	CIFIC	CON-	WHOLE	WHOLE		PRES-		
SOLVED		CUBIC	CON-	DUCT-	FIELD	LAB	TEMPER-	SURE	OXYGEN,	
(PER-		FEET	DUCT-	ANCE	(STAND-	(STAND-	ATURE	( MM	DIS-	
CENT DATE	TIME	PER	ANCE	LAB	ARD	ARD	WATER	OF	SOLVED	
SATUR-	TIME									
ATION)		SECOND		(US/CM)	•	UNITS)	(DEG C)	,	(MG/L)	
(00301)		(00061)	(00095)	(90095)	(00400)	(00403)	(00010)	(00025)	(00300)	
OCT 01	1010		315	323	8.1	8.0	13.0	731	9.9	98
NOV	1010		313				13.0	731	J.J	
19 DEC	1100	6700	256	276	7.7	7.9	0.5	749	13.3	93
04	0955		274	287	7.5	7.6	0.0		10.4	74
JAN 14 FEB	1100		203	298	7.2	7.5	0.0	746	9.9	69

0.4	1100		107	214	7 )	7 (	0 0	7.5.1	0 7	<i>C</i> 1
04 MAR	1100		197	314	7.3	7.6	0.0	751	8.7	61
03 APR	1100		318	340	7.2	7.6	0.0	735	9.4	67
07 21 MAY	1217 1145	32700	191 192	199 199	7.6 7.7	7.6 7.7	0.0 8.5	740 732	10 11.4	70 101
06 JUN	1310	13800	212	215	8.0	7.9	12.5	739	10.5	101
05 10 JUL	1145 1120		281 293	277 290	8.1 8.3	8.2 8.1	20.5 22.5	735 743	8.9 8.9	102 106
02 18 AUG	1230 1148	 11300	277 257	275 250	7.9 7.8	8.0 7.9	24.0 26.0	725 733	7.6 7.4	95 95
21 SEP	1120		305	306	8.2	8.2	19.0	741	9.7	109
10	1055		313	304	8.2	8.3	20.5	740	8.3	95
NITRO-		ALKA-		BICAR-	CAR-	NITRO-	NITRO-	NITRO-	NITRO-	
GEN,	HARD-	LINITY	ALKA-	BONATE	BONATE	GEN,	GEN,	GEN,AM-	GEN,AM-	
NO2+NO3	NESS	WAT DIS	LINITY	WATER	WATER	AMMONIA	NITRITE	MONIA +	MONIA +	
DIS-	TOTAL	TOT IT	LAB	DIS IT	DIS IT	DIS-	DIS-	ORGANIC	ORGANIC	
SOLVED	(MG/L	FIELD	(MG/L	FIELD	FIELD	SOLVED	SOLVED	DIS.	TOTAL	
DATE (MG/L	AS	MG/L AS	AS	MG/L AS	MG/L AS	(MG/L	(MG/L	(MG/L	(MG/L	
N)	CACO3)	CACO3	CACO3)	HCO3	CO3	AS N)	AS N)	AS N)	AS N)	AS
(00631)	(00900)	(39086)	(90410)	(00453)	(00452)	(00608)	(00613)	(00623)	(00625)	
OCT 01 0.110	150	146	153	178	0	<0.015	<0.010	0.40	0.40	
NOV 19 0.200	130	108	129	132	0	0.040	<0.010	0.60	0.80	
DEC 04 0.160	140	127	137	155	0	0.100	<0.010	0.60	0.70	
JAN 14 0.190	140	142	147	173	0	0.080	0.010	0.50	0.60	
FEB 04 0.290	160	144	154	176	0	0.060	0.040	0.50	0.60	
MAR 03 0.310 APR	170	165	168	201	0	0.080	<0.010	0.50	0.50	

0.350	95	85	93	104	0	0 100	<b>-0.010</b>	0.50	0 60
21 0.100 MAY	95	0.5	93	104	U	0.100	<0.010	0.50	0.60
06 0.067	110	97	104	118	0	<0.015	<0.010	0.46	0.56
JUN 05 <0.050	140	136	137	166	0	<0.015	<0.010	0.30	0.60
10 0.115 JUL	150	144	143	176	0	<0.015	<0.010	0.41	0.58
02 0.167	130	126	132	154	0	<0.015	0.011	0.67	0.82
18 0.129	130	104	122	127	0	<0.015	<0.010	0.87	0.91
AUG 21 0.146	150	128	149	156	0	<0.015	0.012	0.57	0.55
SEP 10 0.068	150	145	155	177	0	<0.015	<0.010	0.34	0.54

# WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

		PHOS-	PHORUS	PHOS- CARBON,	ORGANIC	CARBON,	MAGNE-		SODIUM	
POTAS-	PHOS-	PHORUS	ORTHO,	ORGANIC	SUS-	CALCIUM	SIUM,	SODIUM,	AD-	
DIS-	PHORUS	DIS-	DIS-	DIS-	PENDED	DIS-	DIS-	DIS-	SORP-	
SOLVED	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SOLVED	SOLVED	SOLVED	TION	
DATE (MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	RATIO	
(1107 E	AS P)	AS P)	AS P)	AS C)	AS C)	AS CA)	AS MG)	AS NA)		AS
(00935) OCT	(00665)	(00666)	(00671)	(00681)	(00689)	(00915)	(00925)	(00930)	(00931)	
01 NOV	<0.010	<0.010	<0.010	7.9	0.40	38	14	6.7	0.2	1.7
19 DEC	0.040	0.020	0.020	11	0.40	34	11	5.1	0.2	1.9
04 JAN	0.020	<0.010	0.020	10	0.50	35	12	5.1	0.2	1.6
14 FEB	0.020	<0.010	<0.010	7.7	0.30	38	12	5.1	0.2	1.6
04 MAR	0.060	<0.010	<0.010	8.1	0.30	41	14	5.7	0.2	1.6
03 APR	0.040	<0.010	<0.010	7.6	0.50	44	14	6.0	0.2	1.6
07 21	0.160 0.040	0.020 0.020	0.030 0.010	9.1 11	 0.20	24 26	7.2 7.4	3.3 3.0	0.2 0.1	2.4 1.8

MAY 06 JUN	0.012	<0.010	<0.010	11	0.30	29	8.4	3.7	0.2	1.6
05 10	0.010 <0.010	<0.010 <0.010	<0.010 <0.010	9.3 8.7	0.60 1.0	35 37	12 13	4.8 5.2	0.2	1.4 1.5
JUL 02 18	0.045 0.029	0.013 0.022	0.019 0.021	12 14	0.80 1.2	35 34	12 10	5.0 4.1	0.2	1.4
AUG 21	0.029	0.025	0.011	9.0	0.30	39	13	5.3	0.2	1.2
SEP 10	0.012	<0.010	<0.010	7.7	0.30	38	14	5.8	0.2	1.5
SED.							SOLIDS,	SOLIDS,		
SUSP.	CHLO-		FLUO-	SILICA,		MANGA-	RESIDUE	SUM OF		
SIEVE	RIDE,	SULFATE	RIDE,	DIS-	IRON,	NESE,	AT 180	CONSTI-	SEDI-	
DIAM.	DIS-	DIS-	DIS-	SOLVED	DIS-	DIS-	DEG. C	TUENTS,	MENT,	
FINER	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	DIS-	DIS-	SUS-	%
DATE THAN	(MG/L	(MG/L	(MG/L	AS	(UG/L	(UG/L	SOLVED	SOLVED	PENDED	
.062 MM	AS CL)	AS SO4)	AS F)	SIO2)	AS FE)	AS MN)	(MG/L)	(MG/L)	(MG/L)	
(70331)	(00940)	(00945)	(00950)	(00955)	(01046)	(01056)	(70300)	(70301)	(80154)	
OCT 01	6.4	9.4	0.10	8.9	17	3.0	188	173	14	70
NOV 19	5.1	6.9	0.10	10	95	33	172	140	16	85
DEC										
04 JAN	4.7	5.8	0.10	11	150	25	173	153	10	82
14 FEB	3.9	5.7	<0.10	11	200	32	181	164	11	93
04 MAR	4.1	6.2	0.10	12	200	30	189	173	15	94
03 APR	5.1	6.6	0.10	13	150	47	200	191	4	94
07 21	4.1 3.3	4.6 4.9	<0.10 <0.10	8.1 9.1	280 210	92 22	131 128	101 108	70 16	95 84
MAY 06	3.5	4.0	<0.10	6.7	190	24	145	115	8	98
JUN 05	4.2	4.9	0.12	5.8	43	3.0	174	149	6	91
10 JUL	4.7	5.5	0.10	6.8	20	2.9	170	161	9	96
02 18	4.2 2.9	5.0 3.4	0.12 0.11	9.1 11	66 170	16 9.2	187 171	148 129	21 17	100 97
AUG 21	4.3	5.8	0.11	12	39	6.7	200	158	5	92
SEP 10	4.7	5.0	<0.10	11	14	1.2	192	168	7	83