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Abundance and Run Timing of Adult Salmon in Long Lake in the Wrangell-St. Elias National Park/Preserve

Annual Report No. FIS 04-501

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ANNUAL REPORT SUMMARY PAGE

Title: Abundance and Run Timing of Adult Salmon in Long Lake in the Wrangell-St. Elias National Park and Preserve

Study Number: FIS04-501

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Management Regions: Cook Inlet/Gulf of Alaska

Information Type: Fish stock status and trends

Issues Addressed: Long Lake sockeye salmon are the most abundant salmon stock within the Chitina River drainage. The variability of the run demonstrates the need for stock specific monitoring sites in addition to the broad scale assessment of mixed stocks in the mainstem Copper River. Long Lake salmon are available to Federal and State subsistence users as well as commercial harvest. A newly implemented sampling regime will aid in estimating age-sex-length composition of the population.

Study Cost: **$** 53,400

Study Duration: May 2004 to December 2006

Key Words: Copper River, Sockeye, Chitina River, Long Lake, Sockeye Escapement, Stock/Status and Trends

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INTRODUCTION

The upper Copper River drainage provides spawning habitat for sockeye salmon, *Oncorhynchus nerka*, coho salmon *O. kisutch*, and Chinook salmon *O. tshawytscha*. Significant numbers of adult salmon are harvested in commercial drift gillnet operations near the mouth of the Copper River from mid-May to September. Salmon escapement into the upper Copper River system contributes to federal and state subsistence fishing through September each year. The monitoring and evaluation of these runs is essential to ensure that Wrangell - St. Elias National Park and Preserve (WRST) maintains natural and healthy populations of fish as required by the Alaska National Interest Lands Conservation Act (ANILCA).

Accurate assessment of yearly run strength and migratory timing in tributaries to the Copper River is essential to the development of a management strategy that meets the mandates of ANILCA. The upper Copper River sockeye salmon populations are of particular importance to both federally qualified and state subsistence users. The primary assessment of inriver abundance for Copper River sockeye salmon occurs at the Miles Lake sonar. However, migratory timing of sockeye salmon into the Copper River is prolonged (May-August); and subsequent assessment of escapement into some drainages is needed to determine spawning distribution.

Thirty two years of weir data show annual variations in abundance of Long Lake runs ranging from 4,400 to over 50,000 sockeye (Table 1). This is the longest running data set of salmon weir counts in the Copper River drainage. The sockeye salmon stock that spawns within Long Lake is the largest salmon stock within the Chitina River drainage. The magnitude of escapement, and fraction of the total inriver return for the Copper River, is widely variable (Table 1). The largest measured escapement (50,000) into Long Lake occurred in 2002 and composed six percent of the estimated inriver return to the entire Copper River. During the period 1978-1980, inriver return to the Copper River was very low, and Long Lake escapements comprised 14-19% of the total inriver return. Since 1981, escapement into Long Lake has comprised no more than 6% of the total inriver return, and there does not appear to be a relationship between the magnitude of inriver return and escapement into Long Lake during this 25-year period. This demonstrates the need for stock specific monitoring sites in addition to broad scale sonar sites estimating mixed stock returns.

Background

The Long Lake population has the longest known annual spawning duration (August through April) of any sockeye salmon population in North America. (Ken Roberson, personal communication) Throughout the winter, sockeye spawn in the northwest corner of the lake which rarely freezes (Figure 1).

Year	Miles Lake Sonar (fish)	Long Lake Weir Counts (sockeye salmon)	Long Lake % of Sonar Estimates
1974		4,684	
1975		6,768	
1976		24,689	
1977		8,624	
1978	107,011	15,458	14.45
1979	237,173	46,110	19.44
1980	276,538	39,038	14.12
1981	535,263	12,659	2.37
1982	467,306	28,047	6.00
1983	545,724	28,133	5.16
1984	536,806	10,637	1.98
1985	436,313	21,131	4.84
1986	509,275	16,997	3.34
1987	483,478	13,633	2.82
1988	488,398	7,543	1.54
1989	607,797	14,981	2.46
1990	581,895	21,664	3.72
1991	579,435	11,511	1.99
1992	601,952	10,091	1.68
1993	797,902	16,101	2.02
1994	715,181	18,289	2.56
1995	599,265	17,923	2.99
1996	906,867	6,309	0.70
1997	1,148,079	4,443	0.39
1998	866,957	8,441	0.97
1999	848,921	12,922	1.52
2000	587,592	8,645	1.47
2001	833,569	26,999	3.23
2002	819,000	49,747	6.07
2003	695,233	4,604	0.66
2004	669,646	19,215	2.87
2005	854,268	7,770	0.91

Table 1. Long Lake weir counts and sonar estimates, 1974-2005.

Figure 1. Salmon spawning in Long Lake in April, 2004.

The Alaska Department of Fish and Game (ADFG) initially operated the Long Lake weir in 1974 and 1975. Cliff Collins, a local private citizen who owned the land where the weir is located, voluntarily took over operation of the weir in 1976 when ADFG was no longer able to fund the operation of the weir. He operated the weir continuously from 1976 through 2003 (Table 1). In 2003 when Mr. Collins, at age 93, was no longer able to operate the weir, a cooperative agreement was formed between the Collins' Family Trust, Wrangell-St. Elias National Park/Preserve and the Copper River Watershed Project to continue to keep the weir operating. Since 2004, funding has been provided under the Subsistence Fisheries Resource Monitoring Program[1]. Starting in 2003 the weir operators began sampling sockeye salmon for age, sex, and length composition according to a sampling protocol established by ADFG.

The physical structure of the weir has changed little since 1974. A small sampling box was constructed on the upstream side of the middle of the weir in 2003. In 2004 a larger sampling box was constructed against the west bank of the creek on the upstream side of the weir. This larger box was also used in 2005.

OBJECTIVES

1) Monitor annual abundance and timing of sockeye and other salmon in Long Lake.

[1] Administered by U.S. Fish and Wildlife Service, Office of Subsistence Management.

2) To enumerate the number of sockeye salmon entering Long Lake from July 1 to mid-September, thereby continuing a data set initiated in 1974.
3) To measure the entry pattern of sockeye salmon to Long Lake and compare the entry pattern to the historic entry pattern data set to test for change in the interannual run timing.
4) To estimate age-sex-length composition of the Long Lake sockeye salmon population.
5) To compare the numbers of sockeye entering Long Lake with similar data from the Miles Lake sonar.

METHODS

Site Description

Long Lake, located at 480 m above sea level, at latitude 61 deg 23' 1.68" N and longitude 143 degrees 17' 15.89" W, flows into the Lakina River, a tributary of the Chitina River in the Copper River drainage (Figure 2). Long Lake is located adjacent to the McCarthy Road and is .5 km wide and 8.5 km long. The outlet stream (called Salmon Creek by the Collins family) runs 2.1 kilometers through nearly level terrain to the Lakina River. Willows, alders, mosses and sedges dominate the vegetation. White spruce are the primary evergreens with stands of paper birch and quaking aspen interspersed. The soils are poorly drained. Annual precipitation in the area averages 40.11 cm and the ambient temperature ranges from a high of 13.39° C to a low of -27.06° C. The average annual temperature is -22° C (USDA 1979).

The project uses a rigid picket weir to enumerate the number of salmon migrating into Long Lake and to sample the age, sex and length of a portion of the salmon migrating through the weir. The weir site is on Collins Family Trust land and is located within a few hundred meters of the Collins family residence, at mile 45 on the McCarthy Road (Figure 2).

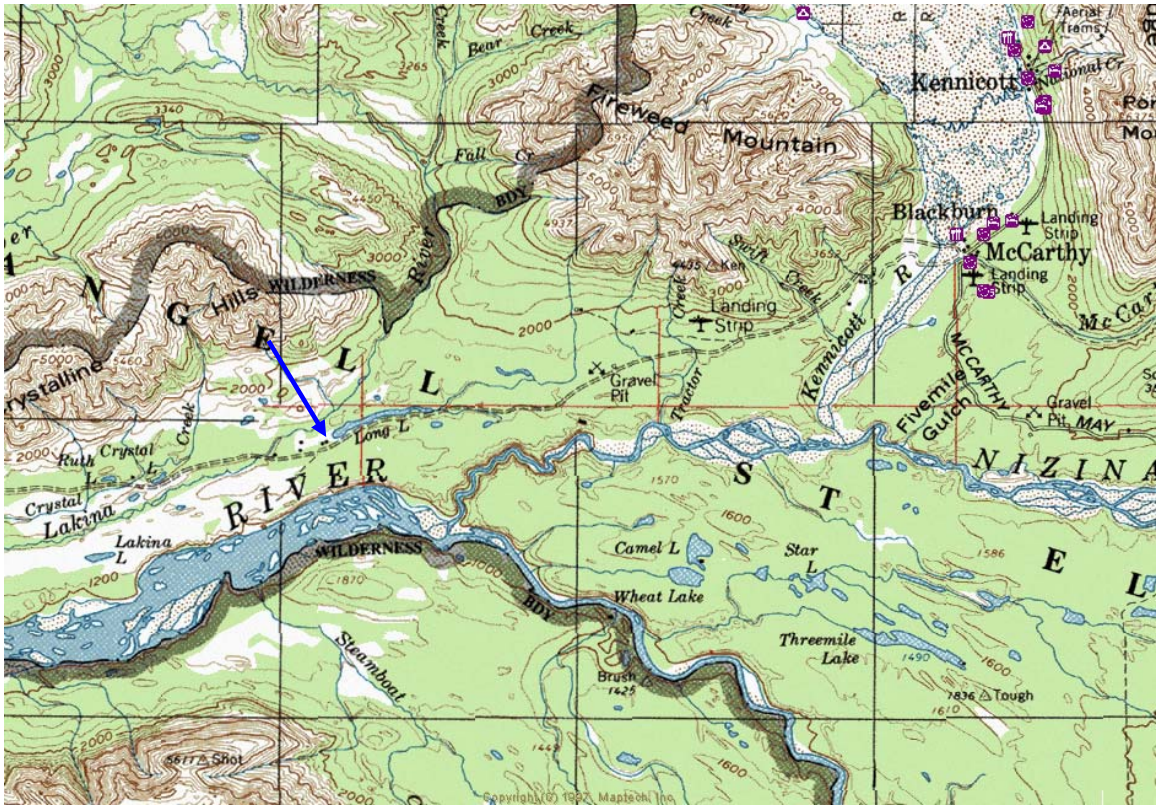

Figure 2. Long Lake weir site.

A rigid picket weir is operated at the outlet of the lake (Figure 3). The weir has a picket spacing of 3.75 cm and to count fish, 1-2 pickets are removed, and the fish are enumerated as they swim through the opening. The weir is monitored daily and is closed when it is not monitored.

The site is extremely conducive to the operation of a rigid picket weir. Flows fluctuate only slightly, water velocity is always low, and the stream is shallow and easily waded. A walkway lays across the stream immediately upstream of the weir where a weir operator can stand and count migrating salmon simply by removing one or two pickets from the weir.

Figure 3. Long Lake weir, 2004.

In 2005, as in 2004, a large sampling box with a funnel-shaped entry trap was erected, approximately 2.1 m x 3.1 m in size, with the west bank of the creek used as one side of the box. A sampling table was constructed at one end and was used to sample fish (Figure 4). To allow fish into the sampling box 1-2 pickets on the west side of the weir are removed so the fish can swim into the entry trap and then into the box. When the box has 20-50 fish in it, the pickets are replaced in the weir thus trapping the fish within the box. In 2005 the weir and sampling box were installed on July 19 and removed on October 15. Sampling was typically performed with a crew of 3.

Figure 4. Sampling box, 2004.

Bears are frequently a problem at the weir and further downstream in the creek. The Collins family has several Karelian bear dogs which are staked out near the weir when fish are being sampled or enumerated. An electric fence was installed around the weir and sampling box for the entire 2005 field season to prevent structural damage and to inhibit the bears from eating the salmon captured in the box.

A *HOBO® TEMP* data logger was placed in a submersible case to collect water temperature data throughout the summer. Water levels were determined by reading a staff gauge daily.

Biological Data

Fish migrating through the weir were counted and identified to species. A percentage of the sockeyes were sampled according to a sampling strategy designed by the Alaska Department of Fish and Game, Division of Commercial Fisheries in Cordova, Alaska to estimate the age, sex and length of the sockeye population by sampling 10 percent of the average total return of sockeye salmon or a minimum of 100 fish per week (or as many as are present if <100 are present in a given week) with a maximum of 100 fish per day.

Sockeye salmon were sampled for scales and sexed using external characteristics. Two measurements were taken on each fish, from mid-eye to fork length (MEF) and mid-eye to posterior insertion of anal fin (anal) length. Lengths were recorded to the nearest millimeter. Scales were collected from the

preferred area, located on the left side of the fish and two rows above the lateral line on a diagonal from the posterior insertion of the dorsal fin to the anterior insertion of the anal fin, according to Alaska Department of Fish and Game sampling protocol. One scale was taken from each sockeye salmon in accordance with this protocol. Scale samples were analyzed by the ADFG Commercial Fisheries Division in Cordova. Ages were adjusted for resorbed margins based on length frequency aggregations. Sampling occurred from August 11 through 9/25 when the crew was reduced to one person. By this time 88% of the run had been enumerated.

RESULTS

Weir Operation

Daily staff gauge readings between August 1 and October 10 show a maximum variation of 1.4 feet (Figure 5). The water level was higher throughout the summer than in 2004, especially in the first three weeks of the field season, August 1 – August 21 (Figure 6).

The *HOBO® TEMP* data logger was installed on July 19. Technical difficulties prevented accurate water temperature data from being collected until August 19. The data logger was removed on October 4 (Figure 7). This is the first year that water temperature data at the Long Lake weir was successfully collected. Temperature data collection began in 2004 but the data logger was lost downstream during high water.

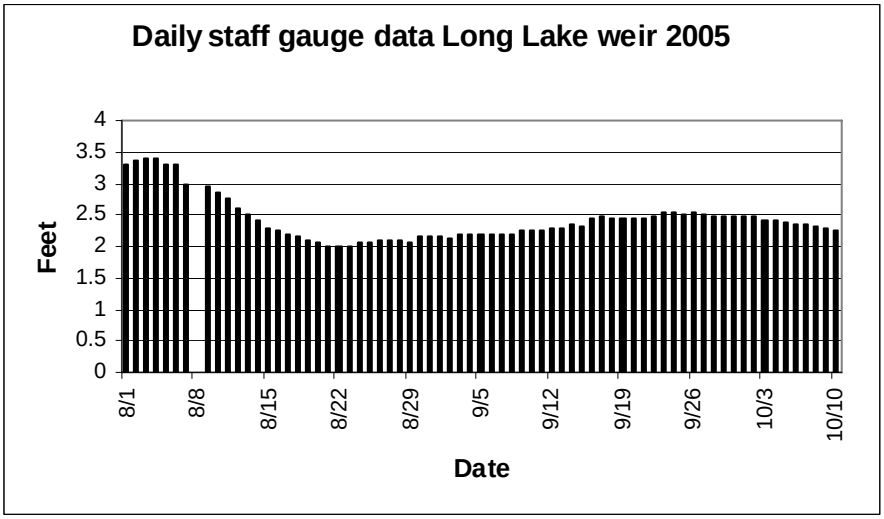

Figure 5. Daily staff gauge readings.

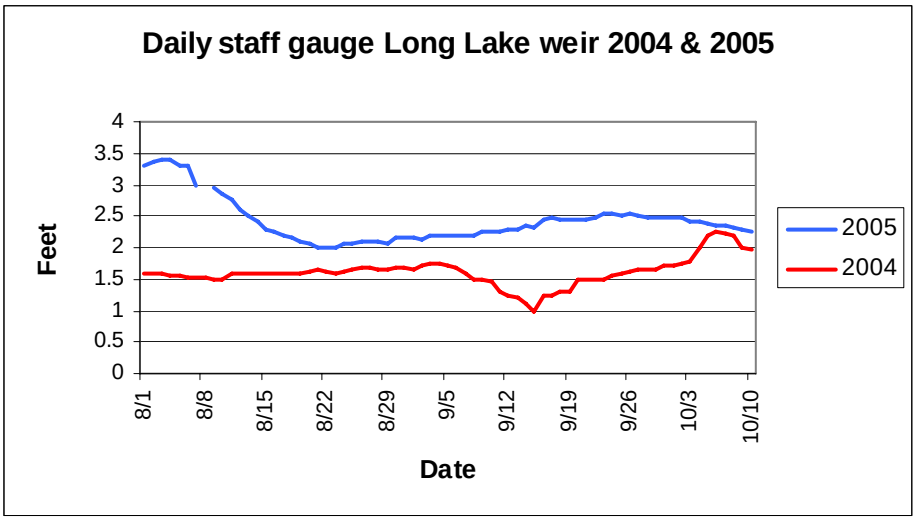

Figure 6. Comparison of 2004 and 2005 staff gauge readings.

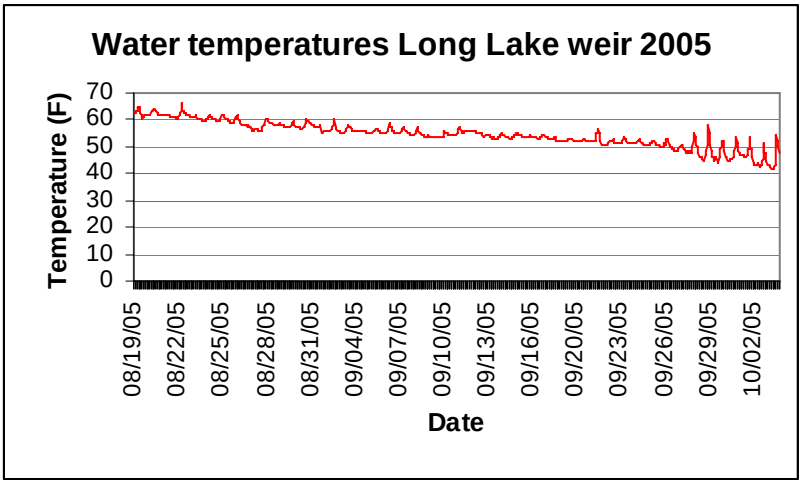

Figure 7. Water temperature data 2005.

Biological Data

In 2005 7,770 sockeye salmon were enumerated through the Long Lake weir (Figure 8 and Appendix A). The first salmon passed through the weir on August 11 when 8 salmon were counted. The largest daily passage of sockeye salmon occurred on September 18 when 1,520 sockeyes migrated through the weir. A total of 604 sockeye were sampled for sex, length, and age; this was 7.8% of the total escapement (Tables 2 and 3). Between September 28 and October 15, 439 coho salmon were enumerated.

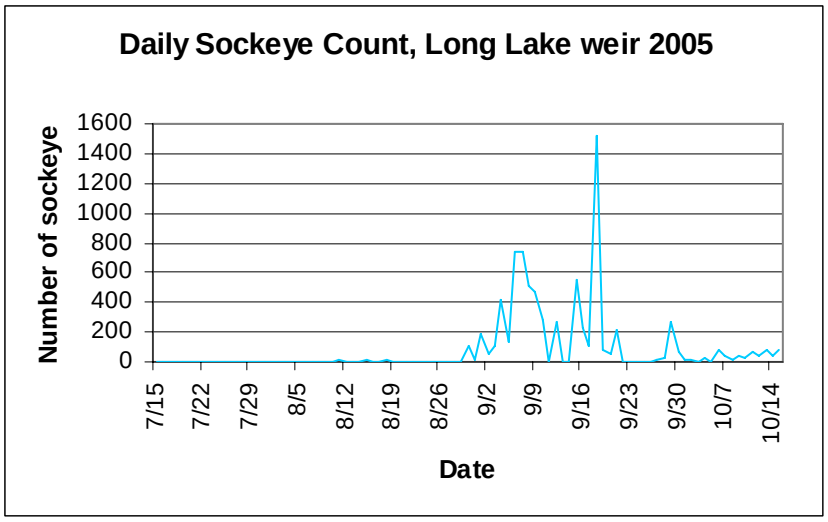

Figure 8. Daily sockeye salmon count, 2005.

The majority of the population that was sampled in 2005 (slightly over 50%) was composed of age 1.3 sockeye salmon (Table 2).

Stratum Dates: August 11 –September 25											
Sex		Age Class								Total Fish Counted	Number of fish sampled
		0.2	0.3	1.1	1.2	1.3	2.1	2.2	2.3		
F	Percent	0	0	0	41.2	49.0	0	6.8	2.9		308
	SE	0	0	0	2.3	2.8	0	2.6	0.0	3,962	
	Sample Size				127	151		21	9		
M	Percent	0	0	0	36.9	51.9	0	5.8	5.4		295
	SE	0	0	0	2.8	2.9	0	1.4	1.3	3,795	
	Sample Size				109	153		17	16		
Total	Percent	0	0	0	39.2	50.3	0	6.3	4.1		603
	SE	0	0	0	2.0	2.0	0	1.0	0.8	7,770	
	Sample Size				236	304	0	38	25		

Table 2. Sockeye proportions by sex and age, entire 2005 field season.

Sample dates: August 11 - September 20, 2005										
		Age Class								
Length		0.2	0.3	1.1	1.2	1.3	1.4	2.1	2.2	2.3
F	Avg Length (mm)	0	0	0	517	571	0	0	519	564
	SE	0	0	0	2	1	0	0	4	5
	Sample Size	0	0	0	127	151	0	0	21	9
M	Avg Length (mm)	0	0	0	527	588	0	0	529	591
	SE	0	0	0	3	1	0	0	6	3
	Sample Size	0	0	0	109	153	0	0	17	16
	Avg Length (mm)	0	0	0	521	580	0	0	523	582
	SE	0	0	0	2	1	0	0	3	4
Total	Sample Size	0	0	0	236	304	0	0	38	25

Table 3. Sockeye Length by sex and age, August 11 – September 20, 2005.

Run Timing

Run timing in 2005 was substantially later than in any previous year (Figure 9). The first sockeye was observed migrating through the weir on August 11, approximately 2 weeks after typical run timing. The median point in the run occurred on September 10 when the cumulative total of sockeyes reached 3,794; again, approximately 2 weeks later than average migratory timing. The last sockeye was counted through the weir on October 15 when the weir was closed for the season.

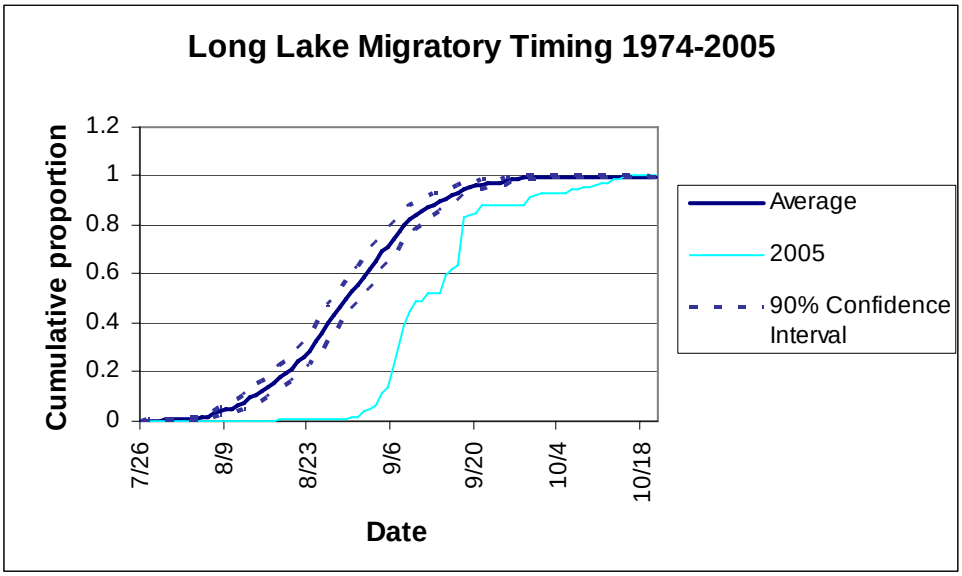

Figure 9. Average migratory run timing, 1974-2005 and 2005 timing.

DISCUSSION

Weir Operation

The basic construction of the weir has changed very little since it was built in 1974 because the rigid picket design works well in this location. The pickets are removed and stored at the end of each field season and then replaced each summer while the weir's framework can remain in place in the creek throughout the winter.

The framework of the sampling box has to be reconstructed each year. In 2005 the layout was similar to the box in 2004. An electric bear fence was erected at the beginning of the sampling season and remained in place throughout the rest of the summer to alleviate the destruction and danger caused by grizzly bears.

Biological Data

The sockeye salmon escapement into Long Lake in 2005, estimated at 7,770, is one of the smallest escapements and considerably below the 32-year average of 17,061 (s.e. 2037) (Figure 10). Long Lake weir counts were regressed on Miles Lake sonar counts using simple linear regression. The comparison between the Miles Lake sonar count and the Long Lake weir estimates shows no direct relationship between the two (P-value .0602, Figure 11) . The majority of the returning adults in 2003, 2004 and 2005, the only years that scale samples were taken, were age 1.3 fish (Table 2). The second highest age class group for both years was age 1.2 fish.

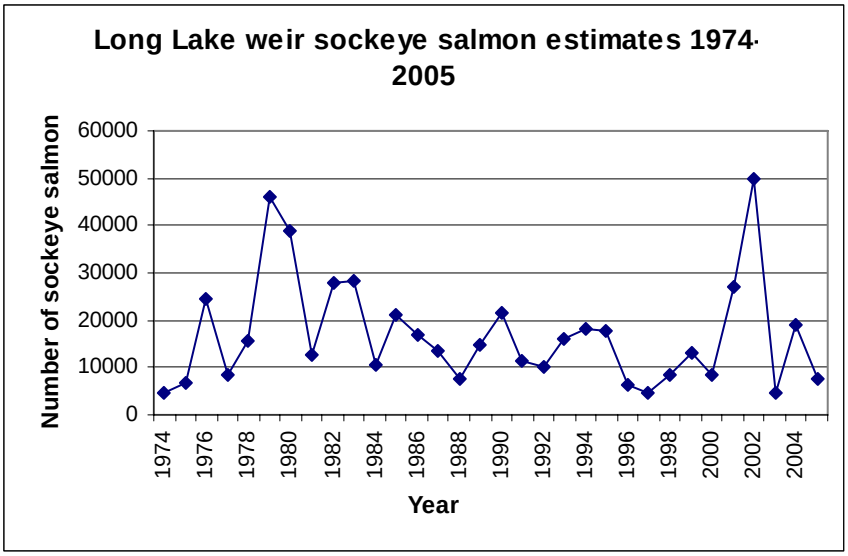

Figure 10. Long Lake weir sockeye estimates, 1974-2005.

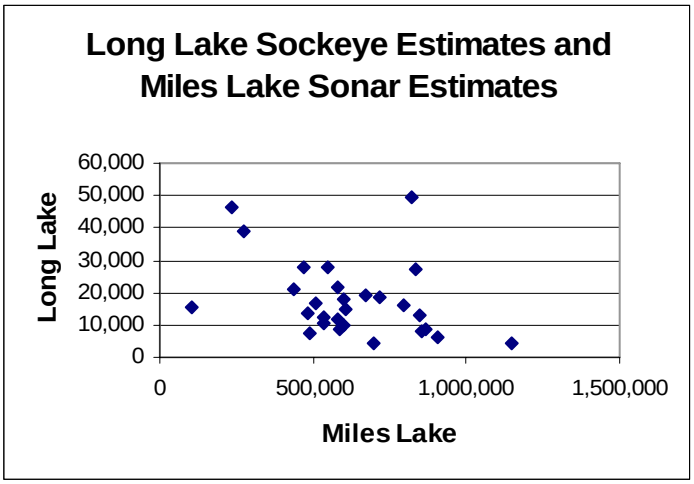

Figure 11. Comparison between Long Lake and Miles Lake sonar yearly estimates (1978-2005)

CONCLUSIONS

Weir Operation

There were no major changes at the weir in 2005. The sampling box design continued to work well and erecting the electric fence earlier insured a safer work place for the entire sampling season. The sampling crew which was composed of two individuals living in the Collins' household, one other local resident and a local YCC student also functioned well. No major changes are planned for 2007.

Biological Data

According to Table 1 sockeye returns to Long Lake appear to be highly variable, from a high of 50,000 in 2002 to a low of 4,443 in 1997. The number of fish counted through the weir in 2005 is approximately 45% lower than the 32 year average.

RECOMMENDATIONS

The project continues to operate the Long Lake weir successfully. The age, sex, length sampling provides additional information that was not collected in the past. Therefore, we can provide only the following brief recommendations:

1. Continue monitoring towards defining a natural and healthy escapement for Long Lake.
2. Continue sampling fish for age, length and sex.

ACKNOWLEDGMENTS

The Collins family and the Copper River Watershed Project provided the majority of the labor for operating the weir. Tamara Harper was also instrumental in assuring that age, sex, length sampling was conducted properly; Rene Welty, the YCC student, supplied additional help with sampling and counting salmon. Rick Merizon, ADFG, Commercial Fisheries Division in Cordova, Alaska proposed the sampling regime for the weir, read the scale samples, and provided the information in Tables 2 and 3. The U.S. Fish and Wildlife Service, Office of Subsistence Management, provided $17,780 in funding support through the Fisheries Resource Monitoring Program, under contract number FIS05-501.

LITERATURE CITED

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United States Department of Agriculture, Soil Conservation Service, 1979. Exploratory Soil Survey of Alaska, National Cooperative Soil Survey.

Appendix A. Sockeye and coho salmon daily and cumulative counts, 2005.

Long Lake Weir 2005				
Date	Sockeye Daily Count	Sockeye Cumulative	Coho Daily Count	Coho Cumulative
7/15	0	0		
7/16	0	0		
7/17	0	0		
7/18	0	0		
7/19	0	0		
7/20	0	0		
7/21	0	0		
7/22	0	0		
7/23	0	0		
7/24	0	0		
7/25	0	0		
7/26	0	0		
7/27	0	0		
7/28	0	0		
7/29	0	0		
7/30	0	0		
7/31	0	0		
8/1	0	0		
8/2	0	0		
8/3	0	0		
8/4	0	0		
8/5	0	0		
8/6	0	0		
8/7	0	0		
8/8	0	0		
8/9	0	0		
8/10	0	0		
8/11	8	8		
8/12	0	8		
8/13	5	13		
8/14	0	13		
8/15	7	20		
8/16	0	20		
8/17	3	23		
8/18	10	33		
8/19	0	33		
8/20	0	33		
8/21	0	33		
8/22	0	33		
8/23	0	33		
8/24	0	33		
8/25	0	33		

8/26	0	33		
8/27	0	33		
8/28	0	33		
8/29	0	33		
8/30	105	138		
8/31	18	156		
9/1	185	341		
9/2	60	401		
9/3	102	503		
9/4	416	919		
9/5	133	1,052		
9/6	736	1,788		
9/7	739	2,527		
9/8	516	3,043		
9/9	465	3,508		
9/10	286	3,794		
9/11	0	3,794		
9/12	274	4,068		
9/13	0	4,068		
9/14	0	4,068		
9/15	553	4,621		
9/16	226	4,847		
9/17	103	4,950		
9/18	1,520	6,470		
9/19	83	6,553		
9/20	55	6,608		
9/21	217	6,825		
9/22	0	6,825		
9/23	0	6,825		
9/24	0	6,825		
9/25	0	6,825		
9/26	0	6,825		
9/27	10	6,835	3	3
9/28	26	6,861	4	7
9/29	268	7,129	13	20
9/30	62	7,191	15	35
10/1	15	7,206	4	39
10/2	14	7,220	5	44
10/3	0	7,220	0	44
10/4	30	7,250	3	47
10/5	5	7,255	2	49
10/6	87	7,342	78	127
10/7	41	7,383	22	149
10/8	15	7,398	11	160
10/9	47	7,445	49	209
10/10	24	7,469	60	269
10/11	68	7,537	66	335
10/12	34	7,571	8	343

10/13	76	7,647	32	375
10/14	40	7,687	11	386
10/15	83	7,770	53	439

Appendix B. Raw sampling data, Long Lake, 2005.

Strata	Date	Card#	Fish#	Sex	Length	FW age	SW age	Age	Error Code
1	8/11/2005	1	1	2	580	1	3	1.3	NA
1	8/11/2005	1	2	1	560	1	2	1.2	NA
1	8/11/2005	1	3	2	510	1	2	1.2	NA
1	8/11/2005	1	4	1	580	NA	NA	NA	3
1	8/11/2005	1	5	2	590	1	3	1.3	NA
1	8/11/2005	1	6	2	510	1	2	1.2	NA
1	8/11/2005	1	7	2	490	1	2	1.2	NA
1	8/11/2005	1	8	1	570	1	3	1.3	NA
1	8/17/2005	2	1	2	540	1	2	1.2	NA
1	8/17/2005	2	2	2	520	1	2	1.2	NA
1	8/17/2005	2	3	1	550	1	2	1.2	NA
1	8/18/2005	3	1	2	550	1	3	1.3	NA
1	8/18/2005	3	2	2	520	1	2	1.2	NA
1	8/18/2005	3	3	1	560	NA	NA	NA	5
1	8/30/2005	4	1	1	510	NA	NA	NA	5
1	8/30/2005	4	2	2	530	NA	NA	NA	5
1	8/30/2005	4	3	2	570	NA	NA	NA	5
1	8/30/2005	4	4	2	580	1	3	1.3	NA
1	8/30/2005	4	5	1	580	NA	NA	NA	5
1	8/30/2005	4	6	1	570	1	3	1.3	NA
1	8/30/2005	4	7	2	520	NA	NA	NA	5
1	8/30/2005	4	8	2	530	NA	NA	NA	2
1	8/30/2005	4	9	2	570	1	3	1.3	NA
1	8/30/2005	4	10	2	590	1	3	1.3	NA
1	8/30/2005	4	11	2	540	NA	NA	NA	5
1	8/30/2005	4	12	1	540	NA	NA	NA	5
1	8/30/2005	4	13	2	560	NA	NA	NA	5
1	8/30/2005	4	14	2	560	NA	NA	NA	5
1	8/30/2005	4	15	2	550	NA	NA	NA	5
1	8/30/2005	4	16	1	570	NA	NA	NA	3
1	8/30/2005	4	17	2	580	NA	NA	NA	3
1	8/30/2005	4	18	1	620	NA	NA	NA	5
1	8/30/2005	4	19	1	580	1	3	1.3	NA
1	8/30/2005	4	20	2	540	1	2	1.2	NA
1	8/30/2005	4	21	1	550	1	2	1.2	NA
1	8/30/2005	4	22	2	570	1	3	1.3	NA
1	8/30/2005	4	23	1	520	1	2	1.2	NA
1	8/30/2005	4	24	1	560	1	2	1.2	NA
1	8/30/2005	4	25	2	530	1	2	1.2	NA
1	8/30/2005	4	26	1	580	NA	NA	NA	5
1	8/30/2005	4	27	2	550	NA	NA	NA	8
1	8/30/2005	4	28	2	580	1	3	1.3	NA
1	8/30/2005	4	29	2	510	1	2	1.2	NA
1	8/30/2005	4	30	2	510	1	2	1.2	NA
1	8/30/2005	4	31	1	520	NA	NA	NA	2
1	8/30/2005	4	32	1	560	NA	NA	NA	2

1	8/30/2005	4	33	2	520	1	2	1.2	NA
1	8/30/2005	4	34	1	580	1	3	1.3	NA
1	8/30/2005	4	35	1	570	1	3	1.3	NA
1	8/30/2005	4	36	2	510	1	2	1.2	NA
1	8/30/2005	4	37	1	530	1	2	1.2	NA
1	8/30/2005	4	38	2	520	1	2	1.2	NA
1	8/30/2005	4	39	2	550	1	3	1.3	NA
1	8/30/2005	4	40	1	500	NA	NA	NA	2
1	8/30/2005	5	1	1	490	1	2	1.2	NA
1	8/30/2005	5	2	2	570	1	3	1.3	NA
1	8/30/2005	5	3	1	560	1	2	1.2	NA
1	8/30/2005	5	4	1	510	1	2	1.2	NA
1	8/30/2005	5	5	1	570	1	3	1.3	NA
1	8/30/2005	5	6	1	510	1	2	1.2	NA
1	8/30/2005	5	7	2	520	1	2	1.2	NA
1	8/30/2005	5	8	1	540	1	2	1.2	NA
1	8/30/2005	5	9	2	550	1	3	1.3	NA
1	8/30/2005	5	10	2	510	NA	NA	NA	5
1	8/30/2005	5	11	1	590	NA	NA	NA	4
1	8/30/2005	5	12	1	600	1	3	1.3	NA
1	8/30/2005	5	13	2	490	NA	NA	NA	3
1	8/30/2005	5	14	1	590	1	3	1.3	NA
1	8/30/2005	5	15	2	560	1	3	1.3	NA
1	8/30/2005	5	16	1	540	1	2	1.2	NA
1	8/30/2005	5	17	1	590	NA	NA	NA	2
1	8/30/2005	5	18	2	580	1	3	1.3	NA
1	8/30/2005	5	19	2	510	NA	NA	NA	5
1	8/30/2005	5	20	1	580	1	3	1.3	NA
1	8/30/2005	5	21	2	550	1	3	1.3	NA
1	8/30/2005	5	22	2	520	1	2	1.2	NA
1	8/30/2005	5	23	1	570	1	3	1.3	NA
1	8/30/2005	5	24	2	550	1	3	1.3	NA
1	8/30/2005	5	25	2	580	1	3	1.3	NA
1	8/30/2005	5	26	2	510	NA	NA	NA	3
1	8/30/2005	5	27	2	500	1	2	1.2	NA
1	8/30/2005	5	28	1	590	1	3	1.3	NA
1	8/30/2005	5	29	2	540	1	2	1.2	NA
1	8/30/2005	5	30	2	570	2	3	2.3	NA
1	8/30/2005	5	31	1	530	1	2	1.2	NA
1	8/30/2005	5	32	2	560	1	3	1.3	NA
1	8/30/2005	5	33	2	540	1	2	1.2	NA
1	8/30/2005	5	34	1	530	NA	NA	NA	3
1	8/30/2005	5	35	1	570	NA	NA	NA	5
1	8/30/2005	5	36	1	590	1	3	1.3	NA
1	8/30/2005	5	37	1	580	1	3	1.3	NA
1	8/30/2005	5	38	2	590	1	3	1.3	NA
1	8/30/2005	5	39	1	570	1	3	1.3	NA
1	8/30/2005	5	40	2	590	1	3	1.3	NA
1	8/30/2005	6	1	1	600	1	3	1.3	NA
1	8/30/2005	6	2	1	580	1	3	1.3	NA

1	8/30/2005	6	3	2	570	1	3	1.3	NA
1	8/30/2005	6	4	2	550	1	3	1.3	NA
1	8/30/2005	6	5	2	530	1	2	1.2	NA
1	8/30/2005	6	6	2	500	1	2	1.2	NA
1	8/30/2005	6	7	1	590	1	3	1.3	NA
1	8/30/2005	6	8	1	580	1	3	1.3	NA
1	8/30/2005	6	9	2	490	1	2	1.2	NA
1	8/30/2005	6	10	2	550	1	3	1.3	NA
1	8/30/2005	6	11	1	530	1	2	1.2	NA
1	8/30/2005	6	12	1	550	1	2	1.2	NA
1	8/30/2005	6	13	1	570	1	3	1.3	NA
1	8/30/2005	6	14	1	610	1	3	1.3	NA
1	8/30/2005	6	15	2	530	1	2	1.2	NA
1	8/30/2005	6	16	1	570	1	3	1.3	NA
1	8/30/2005	6	17	2	580	1	3	1.3	NA
1	8/30/2005	6	18	2	610	1	3	1.3	NA
1	8/30/2005	6	19	1	570	1	3	1.3	NA
1	8/30/2005	6	20	1	540	1	2	1.2	NA
1	8/30/2005	6	21	3	NA	1	NA	NA	NA
1	8/31/2005	7	1	1	500	1	2	1.2	NA
1	8/31/2005	7	2	1	550	1	2	1.2	NA
1	8/31/2005	7	3	1	560	NA	NA	NA	3
1	8/31/2005	7	4	1	430	1	2	1.2	NA
1	8/31/2005	7	5	1	540	1	2	1.2	NA
1	8/31/2005	7	6	2	460	1	2	1.2	NA
1	8/31/2005	7	7	1	570	1	3	1.3	NA
1	8/31/2005	7	8	2	530	1	2	1.2	NA
1	9/1/2005	8	1	1	520	NA	NA	NA	5
1	9/1/2005	8	2	2	580	NA	NA	NA	4
1	9/1/2005	8	3	2	490	1	2	1.2	NA
1	9/1/2005	8	4	2	520	1	2	1.2	NA
1	9/1/2005	8	5	2	560	1	3	1.3	NA
1	9/1/2005	8	6	2	530	1	2	1.2	NA
1	9/1/2005	8	7	2	520	1	2	1.2	NA
1	9/1/2005	8	8	2	540	1	2	1.2	NA
1	9/1/2005	8	9	1	590	1	3	1.3	NA
1	9/1/2005	8	10	1	580	1	3	1.3	NA
1	9/1/2005	8	11	2	520	1	2	1.2	NA
1	9/1/2005	8	12	2	550	NA	NA	NA	3
1	9/1/2005	8	13	1	450	1	2	1.2	NA
1	9/1/2005	8	14	1	580	1	3	1.3	NA
1	9/1/2005	8	15	2	580	1	3	1.3	NA
1	9/1/2005	8	16	2	520	1	2	1.2	NA
1	9/1/2005	8	17	1	590	NA	NA	NA	2
1	9/1/2005	8	18	1	520	1	2	1.2	NA
1	9/1/2005	8	19	2	590	1	3	1.3	NA
1	9/1/2005	8	20	2	500	1	2	1.2	NA
1	9/1/2005	8	21	1	580	1	3	1.3	NA
1	9/1/2005	8	22	2	520	1	2	1.2	NA
1	9/1/2005	8	23	1	530	1	2	1.2	NA

1	9/1/2005	8	24	2	500	1	2	1.2	NA
1	9/1/2005	8	25	1	570	1	3	1.3	NA
1	9/1/2005	8	26	1	530	1	2	1.2	NA
1	9/1/2005	8	27	1	590	2	3	2.3	NA
1	9/1/2005	8	28	2	540	1	2	1.2	NA
1	9/1/2005	8	29	1	600	1	3	1.3	NA
1	9/1/2005	8	30	1	530	NA	NA	NA	3
1	9/2/2005	9	1	2	570	1	3	1.3	NA
1	9/2/2005	9	2	2	530	2	2	2.2	NA
1	9/2/2005	9	3	1	560	1	2	1.2	NA
1	9/2/2005	9	4	2	510	2	2	2.2	NA
1	9/2/2005	9	5	2	570	1	3	1.3	NA
1	9/2/2005	9	6	2	550	1	3	1.3	NA
1	9/2/2005	9	7	1	530	1	2	1.2	NA
1	9/2/2005	9	8	1	590	1	3	1.3	NA
1	9/2/2005	9	9	1	510	NA	NA	NA	4
1	9/2/2005	9	10	2	590	1	3	1.3	NA
1	9/2/2005	9	11	1	600	1	3	1.3	NA
1	9/2/2005	9	12	1	520	1	2	1.2	NA
1	9/2/2005	9	13	2	500	1	2	1.2	NA
1	9/2/2005	9	14	2	490	1	2	1.2	NA
1	9/2/2005	9	15	2	580	NA	NA	NA	3
1	9/2/2005	9	16	1	560	1	2	1.2	NA
1	9/2/2005	9	17	2	490	1	2	1.2	NA
1	9/2/2005	9	18	1	600	1	3	1.3	NA
1	9/2/2005	9	19	1	470	1	2	1.2	NA
1	9/2/2005	9	20	1	530	1	2	1.2	NA
1	9/2/2005	9	21	2	500	NA	NA	NA	3
1	9/2/2005	9	22	1	600	NA	NA	NA	3
1	9/2/2005	9	23	2	550	1	3	1.3	NA
1	9/2/2005	9	24	2	570	1	3	1.3	NA
1	9/2/2005	9	25	2	520	1	2	1.2	NA
1	9/2/2005	9	26	1	590	NA	NA	NA	3
1	9/2/2005	9	27	2	560	NA	NA	NA	3
1	9/2/2005	9	28	2	560	1	3	1.3	NA
1	9/2/2005	9	29	2	560	1	3	1.3	NA
1	9/2/2005	9	30	2	510	2	2	2.2	NA
1	9/2/2005	9	31	2	510	NA	NA	NA	3
1	9/2/2005	9	32	2	570	1	3	1.3	NA
1	9/2/2005	9	33	1	610	1	3	1.3	NA
1	9/2/2005	9	34	2	570	NA	NA	NA	3
1	9/2/2005	9	35	2	550	1	3	1.3	NA
1	9/2/2005	9	36	2	550	1	3	1.3	NA
1	9/4/2005	10	1	1	470	1	2	1.2	NA
1	9/4/2005	10	2	1	630	1	3	1.3	NA
1	9/4/2005	10	3	2	510	1	2	1.2	NA
1	9/4/2005	10	4	2	440	NA	NA	NA	2
1	9/4/2005	10	5	2	570	1	3	1.3	NA
1	9/4/2005	10	6	2	570	1	3	1.3	NA

1	9/4/2005	10	7	2	540	NA	NA	NA	3
1	9/4/2005	10	8	2	570	1	3	1.3	NA
1	9/4/2005	10	9	2	500	1	2	1.2	NA
1	9/4/2005	10	10	2	560	1	3	1.3	NA
1	9/4/2005	10	11	1	560	1	2	1.2	NA
1	9/4/2005	10	12	1	620	1	3	1.3	NA
1	9/4/2005	10	13	1	500	1	2	1.2	NA
1	9/4/2005	10	14	2	490	1	2	1.2	NA
1	9/4/2005	10	15	2	580	NA	NA	NA	3
1	9/4/2005	10	16	1	530	1	2	1.2	NA
1	9/4/2005	10	17	2	550	NA	NA	NA	4
1	9/5/2005	11	1	1	610	1	3	1.3	NA
1	9/5/2005	11	2	1	500	1	2	1.2	NA
1	9/5/2005	11	3	2	530	1	2	1.2	NA
1	9/5/2005	11	4	1	520	1	2	1.2	NA
1	9/5/2005	11	5	1	580	1	3	1.3	NA
1	9/5/2005	11	6	2	580	NA	NA	NA	3
1	9/5/2005	11	7	1	490	1	2	1.2	NA
1	9/5/2005	11	8	2	530	1	2	1.2	NA
1	9/5/2005	11	9	1	570	NA	NA	NA	3
1	9/5/2005	11	10	2	490	1	2	1.2	NA
1	9/5/2005	11	11	2	540	1	2	1.2	NA
1	9/5/2005	11	12	2	500	1	2	1.2	NA
1	9/5/2005	11	13	2	560	1	3	1.3	NA
1	9/5/2005	11	14	2	570	1	3	1.3	NA
1	9/5/2005	11	15	2	490	NA	NA	NA	3
1	9/5/2005	11	16	1	600	1	3	1.3	NA
1	9/5/2005	11	17	2	540	1	2	1.2	NA
1	9/5/2005	11	18	2	500	1	2	1.2	NA
1	9/5/2005	11	19	1	630	1	3	1.3	NA
1	9/5/2005	11	20	2	540	1	2	1.2	NA
1	9/5/2005	11	21	2	570	1	3	1.3	NA
1	9/5/2005	11	22	1	520	NA	NA	NA	5
1	9/5/2005	11	23	2	580	1	3	1.3	NA
1	9/5/2005	11	24	2	580	1	3	1.3	NA
1	9/5/2005	11	25	1	600	1	3	1.3	NA
1	9/5/2005	11	26	2	570	1	3	1.3	NA
1	9/5/2005	11	27	1	590	1	3	1.3	NA
1	9/5/2005	11	28	1	600	1	3	1.3	NA
1	9/5/2005	11	29	1	590	NA	NA	NA	3
1	9/5/2005	11	30	2	560	1	3	1.3	NA
1	9/5/2005	11	31	1	530	1	2	1.2	NA
1	9/5/2005	11	32	2	510	1	2	1.2	NA
1	9/5/2005	11	33	2	530	1	2	1.2	NA
1	9/5/2005	11	34	2	510	2	2	2.2	NA
1	9/5/2005	11	35	1	530	1	2	1.2	NA
1	9/5/2005	11	36	2	570	1	3	1.3	NA
1	9/5/2005	11	37	2	510	1	2	1.2	NA
1	9/5/2005	11	38	1	580	1	3	1.3	NA
1	9/5/2005	11	39	2	550	NA	NA	NA	2

1	9/5/2005	11	40	1	450	1	2	1.2	NA
1	9/5/2005	12	1	2	510	1	2	1.2	NA
1	9/5/2005	12	2	2	510	1	2	1.2	NA
1	9/5/2005	12	3	2	530	1	2	1.2	NA
1	9/5/2005	12	4	2	570	1	3	1.3	NA
1	9/5/2005	12	5	1	550	2	2	2.2	NA
1	9/5/2005	12	6	1	580	1	3	1.3	NA
1	9/5/2005	12	7	2	550	1	3	1.3	NA
1	9/5/2005	12	8	2	540	NA	NA	NA	3
1	9/5/2005	12	9	2	590	1	3	1.3	NA
1	9/5/2005	12	10	1	520	1	2	1.2	NA
1	9/5/2005	12	11	2	580	1	3	1.3	NA
1	9/5/2005	12	12	2	510	1	2	1.2	NA
1	9/5/2005	12	13	1	570	NA	NA	NA	3
1	9/5/2005	12	14	2	550	1	3	1.3	NA
1	9/5/2005	12	15	2	530	NA	NA	NA	2
1	9/5/2005	12	16	2	500	1	2	1.2	NA
1	9/5/2005	12	17	2	520	1	2	1.2	NA
1	9/5/2005	12	18	1	580	2	3	2.3	NA
1	9/5/2005	12	19	2	530	1	2	1.2	NA
1	9/5/2005	12	20	2	510	1	2	1.2	NA
1	9/5/2005	12	21	2	510	1	2	1.2	NA
1	9/6/2005	13	1	2	500	1	2	1.2	NA
1	9/6/2005	13	2	1	570	1	3	1.3	NA
1	9/6/2005	13	3	1	490	1	2	1.2	NA
1	9/6/2005	13	4	1	520	2	2	2.2	NA
1	9/6/2005	13	5	2	500	1	2	1.2	NA
1	9/6/2005	13	6	2	610	NA	NA	NA	3
1	9/6/2005	13	7	2	540	NA	NA	NA	3
1	9/6/2005	13	8	2	500	1	2	1.2	NA
1	9/6/2005	13	9	1	530	2	2	2.2	NA
1	9/6/2005	13	10	1	580	1	3	1.3	NA
1	9/6/2005	13	11	2	500	2	2	2.2	NA
1	9/6/2005	13	12	1	520	1	2	1.2	NA
1	9/6/2005	13	13	1	580	1	3	1.3	NA
1	9/6/2005	13	14	1	540	1	2	1.2	NA
1	9/6/2005	13	15	1	540	1	2	1.2	NA
1	9/6/2005	13	16	1	600	1	3	1.3	NA
1	9/6/2005	13	17	1	560	2	2	2.2	NA
1	9/6/2005	13	18	1	540	1	2	1.2	NA
1	9/6/2005	13	19	1	590	1	3	1.3	NA
1	9/6/2005	13	20	2	510	1	2	1.2	NA
1	9/6/2005	13	21	1	550	1	2	1.2	NA
1	9/6/2005	13	22	1	520	1	2	1.2	NA
1	9/6/2005	13	23	2	530	1	2	1.2	NA
1	9/6/2005	13	24	1	590	1	3	1.3	NA
1	9/6/2005	13	25	1	590	1	3	1.3	NA
1	9/6/2005	13	26	2	510	1	2	1.2	NA
1	9/6/2005	13	27	1	530	1	2	1.2	NA
1	9/6/2005	13	28	1	580	1	3	1.3	NA

1	9/6/2005	13	29	1	600	NA	NA	NA	3
1	9/6/2005	13	30	2	490	1	2	1.2	NA
1	9/6/2005	13	31	2	500	2	2	2.2	NA
1	9/6/2005	13	32	1	600	1	3	1.3	NA
1	9/6/2005	13	33	1	610	1	3	1.3	NA
1	9/6/2005	13	34	1	580	2	3	2.3	NA
1	9/6/2005	13	35	1	600	1	3	1.3	NA
1	9/6/2005	13	36	1	500	1	2	1.2	NA
1	9/6/2005	13	37	2	520	NA	NA	NA	3
1	9/6/2005	13	38	3	NA	1	NA	NA	NA
1	9/6/2005	13	39	1	520	1	2	1.2	NA
1	9/6/2005	13	40	1	500	1	2	1.2	NA
1	9/6/2005	14	1	2	450	NA	NA	NA	3
1	9/6/2005	14	2	1	550	1	2	1.2	NA
1	9/6/2005	14	3	2	560	1	3	1.3	NA
1	9/6/2005	14	4	1	570	1	3	1.3	NA
1	9/6/2005	14	5	1	590	1	3	1.3	NA
1	9/6/2005	14	6	2	530	1	2	1.2	NA
1	9/6/2005	14	7	2	570	1	3	1.3	NA
1	9/6/2005	14	8	2	570	1	3	1.3	NA
1	9/6/2005	14	9	2	520	1	2	1.2	NA
1	9/6/2005	14	10	1	580	1	3	1.3	NA
1	9/6/2005	14	11	1	450	NA	NA	NA	5
1	9/6/2005	14	12	2	500	1	2	1.2	NA
1	9/6/2005	14	13	2	540	1	2	1.2	NA
1	9/6/2005	14	14	1	580	1	3	1.3	NA
1	9/6/2005	14	15	1	590	1	3	1.3	NA
1	9/6/2005	14	16	1	580	1	3	1.3	NA
1	9/6/2005	14	17	1	540	1	2	1.2	NA
1	9/6/2005	14	18	2	510	NA	NA	NA	5
1	9/6/2005	14	19	1	600	NA	NA	NA	5
1	9/6/2005	14	20	1	530	NA	NA	NA	5
1	9/7/2005	15	1	2	520	1	2	1.2	NA
1	9/7/2005	15	2	1	600	1	3	1.3	NA
1	9/7/2005	15	3	1	550	2	2	2.2	NA
1	9/7/2005	15	4	2	540	2	2	2.2	NA
1	9/7/2005	15	5	1	580	1	3	1.3	NA
1	9/7/2005	15	6	2	540	1	2	1.2	NA
1	9/7/2005	15	7	1	520	2	2	2.2	NA
1	9/7/2005	15	8	2	570	1	3	1.3	NA
1	9/7/2005	15	9	2	590	1	3	1.3	NA
1	9/7/2005	15	10	2	570	1	3	1.3	NA
1	9/7/2005	15	11	1	590	1	3	1.3	NA
1	9/7/2005	15	12	1	530	NA	NA	NA	5
1	9/7/2005	15	13	2	570	NA	NA	NA	4
1	9/7/2005	15	14	2	550	1	3	1.3	NA
1	9/7/2005	15	15	2	560	1	3	1.3	NA
1	9/7/2005	15	16	2	510	1	2	1.2	NA
1	9/7/2005	15	17	1	530	1	2	1.2	NA
1	9/7/2005	15	18	1	590	NA	NA	NA	3

1	9/7/2005	15	19	1	590	1	3	1.3	NA
1	9/7/2005	15	20	2	550	1	3	1.3	NA
1	9/7/2005	15	21	2	580	2	3	2.3	NA
1	9/7/2005	15	22	2	520	2	2	2.2	NA
1	9/7/2005	15	23	1	580	1	3	1.3	NA
1	9/7/2005	15	24	1	580	1	3	1.3	NA
1	9/7/2005	15	25	1	520	1	2	1.2	NA
1	9/7/2005	15	26	1	560	1	2	1.2	NA
1	9/7/2005	15	27	2	530	2	2	2.2	NA
1	9/7/2005	15	28	2	560	1	3	1.3	NA
1	9/7/2005	15	29	2	580	NA	NA	NA	4
1	9/7/2005	15	30	2	550	NA	NA	NA	3
1	9/7/2005	15	31	1	530	NA	NA	NA	3
1	9/7/2005	15	32	2	530	NA	NA	NA	3
1	9/7/2005	15	33	1	600	NA	NA	NA	3
1	9/7/2005	15	34	1	590	1	3	1.3	NA
1	9/7/2005	15	35	1	430	NA	NA	NA	2
1	9/7/2005	15	36	2	510	1	2	1.2	NA
1	9/7/2005	15	37	1	570	1	3	1.3	NA
1	9/7/2005	15	38	1	580	1	3	1.3	NA
1	9/7/2005	15	39	2	560	NA	NA	NA	3
1	9/7/2005	15	40	2	550	1	3	1.3	NA
1	9/7/2005	16	1	2	610	1	3	1.3	NA
1	9/7/2005	16	2	1	520	1	2	1.2	NA
1	9/7/2005	16	3	2	580	1	3	1.3	NA
1	9/7/2005	16	4	2	530	NA	NA	NA	3
1	9/7/2005	16	5	2	510	1	2	1.2	NA
1	9/7/2005	16	6	2	540	1	2	1.2	NA
1	9/7/2005	16	7	2	540	NA	NA	NA	3
1	9/7/2005	16	8	2	530	1	2	1.2	NA
1	9/7/2005	16	9	1	560	NA	NA	NA	3
1	9/7/2005	16	10	2	580	NA	NA	NA	5
1	9/7/2005	16	11	2	600	1	3	1.3	NA
1	9/7/2005	16	12	2	530	1	2	1.2	NA
1	9/7/2005	16	13	2	530	1	2	1.2	NA
1	9/7/2005	16	14	1	530	2	2	2.2	NA
1	9/7/2005	16	15	1	610	1	3	1.3	NA
1	9/7/2005	16	16	2	550	2	3	2.3	NA
1	9/7/2005	16	17	1	570	1	3	1.3	NA
1	9/7/2005	16	18	2	510	1	2	1.2	NA
1	9/7/2005	16	19	1	600	1	3	1.3	NA
1	9/7/2005	16	20	1	530	2	2	2.2	NA
1	9/7/2005	16	21	1	550	1	2	1.2	NA
1	9/7/2005	16	22	1	580	1	3	1.3	NA
1	9/7/2005	16	23	2	530	2	2	2.2	NA
1	9/7/2005	16	24	2	610	1	3	1.3	NA
1	9/7/2005	16	25	1	600	1	3	1.3	NA
1	9/7/2005	16	26	1	610	1	3	1.3	NA
1	9/7/2005	16	27	2	580	1	3	1.3	NA
1	9/7/2005	16	28	2	580	1	3	1.3	NA

1	9/7/2005	16	29	2	500	1	2	1.2	NA
1	9/7/2005	16	30	1	610	1	3	1.3	NA
1	9/7/2005	16	31	1	590	1	3	1.3	NA
1	9/7/2005	16	32	2	590	1	3	1.3	NA
1	9/7/2005	16	33	2	520	NA	NA	NA	2
1	9/7/2005	16	34	2	560	NA	NA	NA	3
1	9/7/2005	16	35	2	510	1	2	1.2	NA
1	9/7/2005	16	36	1	550	1	2	1.2	NA
1	9/7/2005	16	37	2	580	1	3	1.3	NA
1	9/7/2005	16	38	2	550	1	3	1.3	NA
1	9/7/2005	16	39	1	610	2	3	2.3	NA
1	9/7/2005	16	40	2	540	NA	NA	NA	4
1	9/7/2005	17	1	2	490	1	2	1.2	NA
1	9/7/2005	17	2	2	540	2	2	2.2	NA
1	9/7/2005	17	3	1	600	NA	NA	NA	3
1	9/7/2005	17	4	1	530	1	2	1.2	NA
1	9/7/2005	17	5	1	560	1	2	1.2	NA
1	9/7/2005	17	6	1	600	1	3	1.3	NA
1	9/7/2005	17	7	2	560	1	3	1.3	NA
1	9/7/2005	17	8	1	590	NA	NA	NA	3
1	9/7/2005	17	9	2	580	2	3	2.3	NA
1	9/7/2005	17	10	2	590	2	3	2.3	NA
1	9/7/2005	17	11	1	500	2	2	2.2	NA
1	9/7/2005	17	12	2	500	1	2	1.2	NA
1	9/7/2005	17	13	2	550	1	3	1.3	NA
1	9/7/2005	17	14	1	520	1	2	1.2	NA
1	9/7/2005	17	15	1	580	NA	NA	NA	3
1	9/7/2005	17	16	2	580	1	3	1.3	NA
1	9/7/2005	17	17	1	530	NA	NA	NA	3
1	9/7/2005	17	18	2	490	1	2	1.2	NA
1	9/7/2005	17	19	1	570	NA	NA	NA	5
1	9/8/2005	18	1	2	580	NA	NA	NA	3
1	9/8/2005	18	2	1	600	1	3	1.3	NA
1	9/8/2005	18	3	1	540	1	2	1.2	NA
1	9/8/2005	18	4	1	580	2	3	2.3	NA
1	9/8/2005	18	5	1	560	1	2	1.2	NA
1	9/8/2005	18	6	1	570	1	3	1.3	NA
1	9/8/2005	18	7	2	590	NA	NA	NA	3
1	9/8/2005	18	8	2	560	1	3	1.3	NA
1	9/8/2005	18	9	1	580	1	3	1.3	NA
1	9/8/2005	18	10	1	570	1	3	1.3	NA
1	9/8/2005	18	11	1	580	1	3	1.3	NA
1	9/8/2005	18	12	1	570	1	3	1.3	NA
1	9/8/2005	18	13	1	590	1	3	1.3	NA
1	9/8/2005	18	14	2	570	1	3	1.3	NA
1	9/8/2005	18	15	2	520	NA	NA	NA	3
1	9/8/2005	18	16	1	600	NA	NA	NA	4
1	9/8/2005	18	17	2	590	1	3	1.3	NA
1	9/8/2005	18	18	1	600	1	3	1.3	NA
1	9/8/2005	18	19	2	570	1	3	1.3	NA

1	9/8/2005	18	20	2	570	1	3	1.3	NA
1	9/8/2005	18	21	1	510	2	2	2.2	NA
1	9/8/2005	18	22	1	570	1	3	1.3	NA
1	9/8/2005	18	23	2	520	1	2	1.2	NA
1	9/8/2005	18	24	1	590	NA	NA	NA	4
1	9/8/2005	18	25	1	490	1	2	1.2	NA
1	9/8/2005	18	26	2	490	1	2	1.2	NA
1	9/8/2005	18	27	1	600	NA	NA	NA	3
1	9/8/2005	18	28	2	500	1	2	1.2	NA
1	9/8/2005	18	29	1	610	1	3	1.3	NA
1	9/8/2005	18	30	1	550	1	2	1.2	NA
1	9/8/2005	18	31	2	590	NA	NA	NA	3
1	9/8/2005	18	32	2	560	1	3	1.3	NA
1	9/8/2005	18	33	2	540	1	2	1.2	NA
1	9/8/2005	18	34	2	520	1	2	1.2	NA
1	9/8/2005	18	35	1	540	NA	NA	NA	2
1	9/8/2005	18	36	1	580	1	3	1.3	NA
1	9/8/2005	18	37	2	600	1	3	1.3	NA
1	9/8/2005	18	38	1	600	1	3	1.3	NA
1	9/8/2005	18	39	1	570	1	3	1.3	NA
1	9/8/2005	18	40	2	550	2	3	2.3	NA
1	9/8/2005	19	1	2	550	1	3	1.3	NA
1	9/8/2005	19	2	2	580	1	3	1.3	NA
1	9/8/2005	19	3	2	570	1	3	1.3	NA
1	9/8/2005	19	4	1	600	NA	NA	NA	4
1	9/8/2005	19	5	2	540	1	2	1.2	NA
1	9/8/2005	19	6	2	530	1	2	1.2	NA
1	9/8/2005	19	7	2	590	1	3	1.3	NA
1	9/8/2005	19	8	2	510	NA	NA	NA	3
1	9/8/2005	19	9	1	550	1	2	1.2	NA
1	9/8/2005	19	10	2	560	1	3	1.3	NA
1	9/8/2005	19	11	1	570	1	3	1.3	NA
1	9/8/2005	19	12	2	570	1	3	1.3	NA
1	9/8/2005	19	13	1	620	NA	NA	NA	3
1	9/8/2005	19	14	2	590	1	3	1.3	NA
1	9/8/2005	19	15	1	580	NA	NA	NA	3
1	9/8/2005	19	16	2	550	1	3	1.3	NA
1	9/8/2005	19	17	1	590	1	3	1.3	NA
1	9/8/2005	19	18	2	560	NA	NA	NA	3
1	9/8/2005	19	19	2	490	1	2	1.2	NA
1	9/8/2005	19	20	1	550	1	2	1.2	NA
1	9/8/2005	19	21	1	580	1	3	1.3	NA
1	9/8/2005	19	22	2	560	1	3	1.3	NA
1	9/8/2005	19	23	1	590	1	3	1.3	NA
1	9/8/2005	19	24	1	580	1	3	1.3	NA
1	9/8/2005	19	25	1	510	1	2	1.2	NA
1	9/8/2005	19	26	1	570	NA	NA	NA	3
1	9/8/2005	19	27	1	570	NA	NA	NA	3
1	9/8/2005	19	28	1	580	1	3	1.3	NA
1	9/8/2005	19	29	2	NA	1	NA	NA	NA

1	9/8/2005	19	30	1	590	NA	NA	NA	5
1	9/8/2005	19	31	2	500	2	2	2.2	NA
1	9/8/2005	19	32	2	540	1	2	1.2	NA
1	9/8/2005	19	33	2	510	1	2	1.2	NA
1	9/8/2005	19	34	1	520	NA	NA	NA	5
1	9/8/2005	19	35	2	550	1	3	1.3	NA
1	9/8/2005	19	36	1	550	1	2	1.2	NA
1	9/8/2005	19	37	2	560	NA	NA	NA	4
1	9/8/2005	19	38	1	590	NA	NA	NA	4
1	9/8/2005	19	39	2	590	1	3	1.3	NA
1	9/8/2005	19	40	2	560	NA	NA	NA	4
1	9/8/2005	20	1	1	590	1	3	1.3	NA
1	9/8/2005	20	2	1	570	NA	NA	NA	3
1	9/8/2005	20	3	2	560	1	3	1.3	NA
1	9/8/2005	20	4	2	520	1	2	1.2	NA
1	9/8/2005	20	5	2	590	1	3	1.3	NA
1	9/8/2005	20	6	2	570	NA	NA	NA	5
1	9/8/2005	20	7	1	610	1	3	1.3	NA
1	9/8/2005	20	8	1	550	NA	NA	NA	4
1	9/8/2005	20	9	2	540	1	2	1.2	NA
1	9/8/2005	20	10	2	570	1	3	1.3	NA
1	9/8/2005	20	11	1	540	NA	NA	NA	3
1	9/8/2005	20	12	2	580	1	3	1.3	NA
1	9/8/2005	20	13	2	550	1	3	1.3	NA
1	9/8/2005	20	14	2	540	1	2	1.2	NA
1	9/8/2005	20	15	1	590	1	3	1.3	NA
1	9/8/2005	20	16	1	490	NA	NA	NA	3
1	9/8/2005	20	17	1	590	1	3	1.3	NA
1	9/8/2005	20	18	2	530	1	2	1.2	NA
1	9/8/2005	20	19	2	560	1	3	1.3	NA
1	9/8/2005	20	20	1	590	NA	NA	NA	3
1	9/12/2005	21	1	1	580	1	3	1.3	NA
1	9/12/2005	21	2	2	570	NA	NA	NA	3
1	9/12/2005	21	3	1	580	1	3	1.3	NA
1	9/12/2005	21	4	1	570	1	3	1.3	NA
1	9/12/2005	21	5	1	530	1	2	1.2	NA
1	9/12/2005	21	6	2	570	NA	NA	NA	3
1	9/12/2005	21	7	1	560	1	2	1.2	NA
1	9/12/2005	21	8	1	570	1	3	1.3	NA
1	9/12/2005	21	9	1	540	1	2	1.2	NA
1	9/12/2005	21	10	1	540	1	2	1.2	NA
1	9/12/2005	21	11	1	510	1	2	1.2	NA
1	9/12/2005	21	12	2	500	2	2	2.2	NA
1	9/12/2005	21	13	2	530	1	2	1.2	NA
1	9/12/2005	21	14	1	540	NA	NA	NA	3
1	9/12/2005	21	15	1	430	1	2	1.2	NA
1	9/12/2005	21	16	1	580	1	3	1.3	NA
1	9/12/2005	21	17	2	570	NA	NA	NA	3
1	9/12/2005	21	18	2	570	1	3	1.3	NA
1	9/12/2005	21	19	1	580	1	3	1.3	NA

1	9/12/2005	21	20	1	520	1	2	1.2	NA
1	9/12/2005	21	21	1	500	1	2	1.2	NA
1	9/12/2005	21	22	1	590	1	3	1.3	NA
1	9/12/2005	21	23	1	590	1	3	1.3	NA
1	9/12/2005	21	24	2	540	1	2	1.2	NA
1	9/12/2005	21	25	1	450	NA	NA	NA	3
1	9/12/2005	21	26	1	560	1	2	1.2	NA
1	9/12/2005	21	27	2	580	1	3	1.3	NA
1	9/12/2005	21	28	1	560	1	2	1.2	NA
1	9/12/2005	21	29	1	580	NA	NA	NA	3
1	9/12/2005	21	30	1	520	2	2	2.2	NA
1	9/12/2005	21	31	1	580	2	3	2.3	NA
1	9/12/2005	21	32	1	330	NA	NA	NA	5
1	9/12/2005	21	33	2	490	2	2	2.2	NA
1	9/12/2005	21	34	2	530	1	2	1.2	NA
1	9/12/2005	21	35	1	600	1	3	1.3	NA
1	9/12/2005	21	36	1	540	1	2	1.2	NA
1	9/12/2005	21	37	1	430	NA	NA	NA	5
1	9/12/2005	21	38	2	540	1	2	1.2	NA
1	9/12/2005	21	39	1	510	1	2	1.2	NA
1	9/12/2005	21	40	1	550	1	2	1.2	NA
1	9/12/2005	22	1	1	620	NA	NA	NA	5
1	9/12/2005	22	2	2	550	NA	NA	NA	3
1	9/12/2005	22	3	2	570	1	3	1.3	NA
1	9/12/2005	22	4	2	530	NA	NA	NA	3
1	9/12/2005	22	5	2	510	2	2	2.2	NA
1	9/12/2005	22	6	1	550	NA	NA	NA	3
1	9/12/2005	22	7	2	570	1	3	1.3	NA
1	9/12/2005	22	8	1	570	NA	NA	NA	4
1	9/12/2005	22	9	1	610	NA	NA	NA	3
1	9/12/2005	22	10	1	500	NA	NA	NA	4
1	9/12/2005	22	11	2	570	NA	NA	NA	3
1	9/12/2005	22	12	1	600	NA	NA	NA	3
1	9/12/2005	22	13	1	530	1	2	1.2	NA
1	9/12/2005	22	14	1	520	NA	NA	NA	3
1	9/12/2005	22	15	2	550	1	3	1.3	NA
1	9/12/2005	22	16	2	590	1	3	1.3	NA
1	9/12/2005	22	17	1	580	1	3	1.3	NA
1	9/12/2005	22	18	2	590	1	3	1.3	NA
1	9/12/2005	22	19	3	490	NA	NA	NA	3
1	9/12/2005	22	20	1	570	1	3	1.3	NA
1	9/12/2005	22	21	2	590	1	3	1.3	NA
1	9/12/2005	22	22	2	570	NA	NA	NA	3
1	9/12/2005	22	23	1	610	1	3	1.3	NA
1	9/12/2005	22	24	2	540	1	2	1.2	NA
1	9/12/2005	22	25	1	540	2	2	2.2	NA
1	9/12/2005	22	26	2	520	1	2	1.2	NA
1	9/12/2005	22	27	1	470	1	2	1.2	NA
1	9/12/2005	22	28	1	540	1	2	1.2	NA
1	9/12/2005	22	29	1	510	1	2	1.2	NA

1	9/12/2005	22	30	1	550	1	2	1.2	NA
1	9/12/2005	22	31	1	570	1	3	1.3	NA
1	9/12/2005	22	32	1	480	1	2	1.2	NA
1	9/15/2005	23	1	1	570	1	3	1.3	NA
1	9/15/2005	23	2	1	590	2	3	2.3	NA
1	9/15/2005	23	3	1	600	2	3	2.3	NA
1	9/15/2005	23	4	1	530	1	2	1.2	NA
1	9/15/2005	23	5	1	590	1	3	1.3	NA
1	9/15/2005	23	6	1	590	NA	NA	NA	3
1	9/15/2005	23	7	1	570	1	3	1.3	NA
1	9/15/2005	23	8	2	550	1	3	1.3	NA
1	9/15/2005	23	9	1	530	1	2	1.2	NA
1	9/15/2005	23	10	2	550	NA	NA	NA	3
1	9/15/2005	23	11	2	510	NA	NA	NA	4
1	9/15/2005	23	12	1	580	1	3	1.3	NA
1	9/15/2005	23	13	1	600	1	3	1.3	NA
1	9/15/2005	23	14	1	550	1	2	1.2	NA
1	9/15/2005	23	15	1	550	2	2	2.2	NA
1	9/15/2005	23	16	1	590	1	3	1.3	NA
1	9/15/2005	23	17	2	530	1	2	1.2	NA
1	9/15/2005	23	18	1	610	1	3	1.3	NA
1	9/15/2005	23	19	1	590	1	3	1.3	NA
1	9/15/2005	23	20	2	510	1	2	1.2	NA
1	9/15/2005	23	21	2	600	1	3	1.3	NA
1	9/15/2005	23	22	2	560	2	3	2.3	NA
1	9/15/2005	23	23	1	570	1	3	1.3	NA
1	9/15/2005	23	24	2	560	1	3	1.3	NA
1	9/15/2005	23	25	2	590	1	3	1.3	NA
1	9/15/2005	23	26	2	530	1	2	1.2	NA
1	9/15/2005	23	27	2	NA	1	NA	NA	NA
1	9/15/2005	23	28	1	550	1	2	1.2	NA
1	9/15/2005	23	29	2	590	1	3	1.3	NA
1	9/15/2005	23	30	2	570	1	3	1.3	NA
1	9/15/2005	23	31	1	530	1	2	1.2	NA
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1	9/15/2005	23	33	1	530	NA	NA	NA	3
1	9/15/2005	23	34	2	580	1	3	1.3	NA
1	9/15/2005	23	35	2	580	1	3	1.3	NA
1	9/15/2005	23	36	2	570	1	3	1.3	NA
1	9/15/2005	23	37	2	510	NA	NA	NA	3
1	9/15/2005	23	38	1	490	1	2	1.2	NA
1	9/15/2005	23	39	2	540	NA	NA	NA	3
1	9/15/2005	23	40	1	580	1	3	1.3	NA
1	9/15/2005	24	1	2	590	1	3	1.3	NA
1	9/15/2005	24	2	2	590	NA	NA	NA	3
1	9/15/2005	24	3	2	570	1	3	1.3	NA
1	9/15/2005	24	4	2	600	1	3	1.3	NA
1	9/15/2005	24	5	1	600	1	3	1.3	NA
1	9/16/2005	25	1	2	520	1	2	1.2	NA
1	9/16/2005	25	2	1	600	NA	NA	NA	3

1	9/16/2005	25	3	2	560	1	3	1.3	NA
1	9/16/2005	25	4	1	590	NA	NA	NA	3
1	9/16/2005	25	5	2	580	1	3	1.3	NA
1	9/16/2005	25	6	1	500	1	2	1.2	NA
1	9/16/2005	25	7	1	580	1	3	1.3	NA
1	9/16/2005	25	8	1	610	1	3	1.3	NA
1	9/16/2005	25	9	2	550	1	3	1.3	NA
1	9/16/2005	25	10	1	560	1	2	1.2	NA
1	9/16/2005	25	11	2	570	1	3	1.3	NA
1	9/16/2005	25	12	1	580	1	3	1.3	NA
1	9/16/2005	25	13	2	550	2	3	2.3	NA
1	9/16/2005	25	14	2	580	NA	NA	NA	2
1	9/16/2005	25	15	2	500	1	2	1.2	NA
1	9/16/2005	25	16	1	580	NA	NA	NA	5
1	9/16/2005	25	17	2	560	NA	NA	NA	3
1	9/16/2005	25	18	1	590	1	3	1.3	NA
1	9/16/2005	25	19	1	620	1	3	1.3	NA
1	9/16/2005	25	20	2	490	NA	NA	NA	3
1	9/16/2005	25	21	2	590	1	3	1.3	NA
1	9/16/2005	25	22	2	520	1	2	1.2	NA
1	9/16/2005	25	23	1	580	2	3	2.3	NA
1	9/16/2005	25	24	1	510	2	2	2.2	NA
1	9/16/2005	25	25	1	600	2	3	2.3	NA
1	9/16/2005	25	26	2	550	1	3	1.3	NA
1	9/16/2005	25	27	1	610	2	3	2.3	NA
1	9/16/2005	25	28	1	540	NA	NA	NA	3
1	9/16/2005	25	29	1	540	1	2	1.2	NA
1	9/16/2005	25	30	1	530	1	2	1.2	NA
1	9/16/2005	25	31	1	570	1	3	1.3	NA
1	9/16/2005	25	32	2	560	1	3	1.3	NA
1	9/16/2005	25	33	2	540	2	2	2.2	NA
1	9/16/2005	25	34	2	540	1	2	1.2	NA
1	9/16/2005	25	35	1	600	2	3	2.3	NA
1	9/16/2005	25	36	1	590	1	3	1.3	NA
1	9/16/2005	25	37	1	590	1	3	1.3	NA
1	9/16/2005	25	38	1	600	2	3	2.3	NA
1	9/16/2005	25	39	2	550	1	3	1.3	NA
1	9/16/2005	25	40	1	550	1	2	1.2	NA
1	9/16/2005	26	1	2	580	1	3	1.3	NA
1	9/16/2005	26	2	2	500	1	2	1.2	NA
1	9/16/2005	26	3	1	560	NA	NA	NA	3
1	9/16/2005	26	4	2	550	1	3	1.3	NA
1	9/16/2005	26	5	2	530	1	2	1.2	NA
1	9/16/2005	26	6	2	540	1	2	1.2	NA
1	9/16/2005	26	7	1	600	1	3	1.3	NA
1	9/16/2005	26	8	1	580	1	3	1.3	NA
1	9/16/2005	26	9	1	580	1	3	1.3	NA
1	9/16/2005	26	10	2	550	NA	NA	NA	3
1	9/16/2005	26	11	1	580	1	3	1.3	NA
1	9/16/2005	26	12	2	570	1	3	1.3	NA

1	9/16/2005	26	13	1	580	1	3	1.3	NA
1	9/16/2005	26	14	2	530	1	2	1.2	NA
1	9/16/2005	26	15	2	500	2	2	2.2	NA
1	9/16/2005	26	16	2	560	1	3	1.3	NA
1	9/16/2005	26	17	2	500	1	2	1.2	NA
1	9/16/2005	26	18	1	560	2	2	2.2	NA
1	9/16/2005	26	19	1	470	2	2	2.2	NA
1	9/16/2005	26	20	1	540	1	2	1.2	NA
1	9/16/2005	26	21	2	560	1	3	1.3	NA
1	9/16/2005	26	22	2	580	NA	NA	NA	3
1	9/16/2005	26	23	1	620	1	3	1.3	NA
1	9/16/2005	26	24	2	570	1	3	1.3	NA
1	9/16/2005	26	25	2	530	NA	NA	NA	3
1	9/16/2005	26	26	1	530	1	2	1.2	NA
1	9/16/2005	26	27	2	550	NA	NA	NA	3
1	9/16/2005	26	28	2	570	1	3	1.3	NA
1	9/16/2005	26	29	2	530	1	2	1.2	NA
1	9/16/2005	26	30	2	530	NA	NA	NA	3
1	9/20/2005	27	1	2	560	NA	NA	NA	4
1	9/20/2005	27	2	2	620	1	3	1.3	NA
1	9/20/2005	27	3	2	560	1	3	1.3	NA
1	9/20/2005	27	4	2	510	1	2	1.2	NA
1	9/20/2005	27	5	2	560	1	3	1.3	NA
1	9/20/2005	27	6	2	540	1	2	1.2	NA
1	9/20/2005	27	7	1	580	1	3	1.3	NA
1	9/20/2005	27	8	2	550	1	3	1.3	NA
1	9/20/2005	27	9	2	570	1	3	1.3	NA
1	9/20/2005	27	10	2	550	2	3	2.3	NA
1	9/20/2005	27	11	1	610	1	3	1.3	NA
1	9/20/2005	27	12	1	570	2	3	2.3	NA
1	9/20/2005	27	13	2	530	1	2	1.2	NA
1	9/20/2005	27	14	2	530	2	2	2.2	NA
1	9/20/2005	27	15	2	560	NA	NA	NA	3
1	9/20/2005	27	16	2	550	1	3	1.3	NA
1	9/20/2005	27	17	1	560	1	2	1.2	NA
1	9/20/2005	27	18	1	590	1	3	1.3	NA
1	9/20/2005	27	19	2	510	1	2	1.2	NA
1	9/20/2005	27	20	2	590	NA	NA	NA	3
1	9/20/2005	27	21	2	570	1	3	1.3	NA
1	9/20/2005	27	22	3	540	1	2	1.2	NA
1	9/20/2005	27	23	2	550	1	3	1.3	NA
1	9/20/2005	27	24	1	590	1	3	1.3	NA
1	9/20/2005	27	25	1	620	1	3	1.3	NA
1	9/20/2005	27	26	1	630	1	3	1.3	NA
1	9/20/2005	27	27	1	480	1	2	1.2	NA
1	9/20/2005	27	28	2	580	NA	NA	NA	3
1	9/20/2005	27	29	1	490	1	2	1.2	NA
1	9/20/2005	27	30	1	580	2	3	2.3	NA
1	9/20/2005	27	31	1	540	1	2	1.2	NA
1	9/20/2005	27	32	2	600	1	3	1.3	NA

1	9/20/2005	27	33	2	580	1	3	1.3	NA
1	9/20/2005	27	34	1	570	1	3	1.3	NA
1	9/20/2005	27	35	1	550	1	2	1.2	NA
1	9/20/2005	27	36	2	550	NA	NA	NA	3
1	9/20/2005	27	37	2	450	1	2	1.2	NA
1	9/20/2005	27	38	2	510	1	2	1.2	NA
1	9/20/2005	27	39	1	540	2	2	2.2	NA
1	9/20/2005	27	40	2	530	2	2	2.2	NA
1	9/20/2005	28	1	1	610	1	3	1.3	NA
1	9/20/2005	28	2	2	560	1	3	1.3	NA
1	9/20/2005	28	3	1	570	1	3	1.3	NA
1	9/20/2005	28	4	1	620	1	3	1.3	NA
1	9/20/2005	28	5	2	590	1	3	1.3	NA
1	9/20/2005	28	6	2	540	2	2	2.2	NA
1	9/20/2005	28	7	1	560	1	2	1.2	NA
1	9/20/2005	28	8	1	590	NA	NA	NA	3
1	9/20/2005	28	9	1	610	2	3	2.3	NA
1	9/20/2005	28	10	2	530	2	2	2.2	NA
1	9/20/2005	28	11	1	620	1	3	1.3	NA
1	9/20/2005	28	12	2	590	1	3	1.3	NA
1	9/20/2005	28	13	2	580	NA	NA	NA	4
1	9/20/2005	28	14	1	570	1	3	1.3	NA
1	9/20/2005	28	15	1	600	1	3	1.3	NA