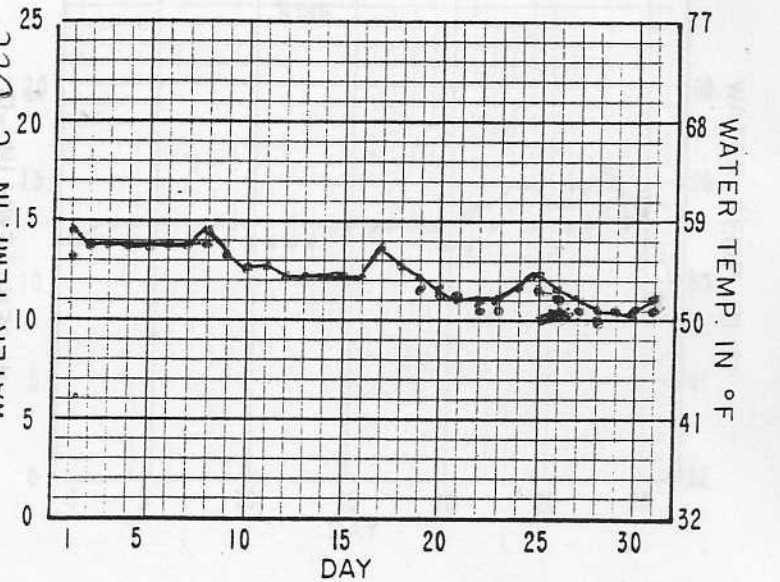
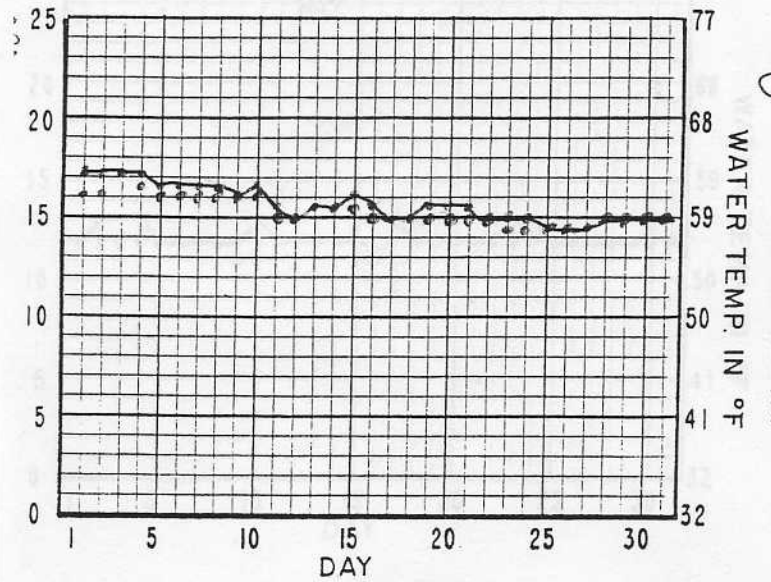
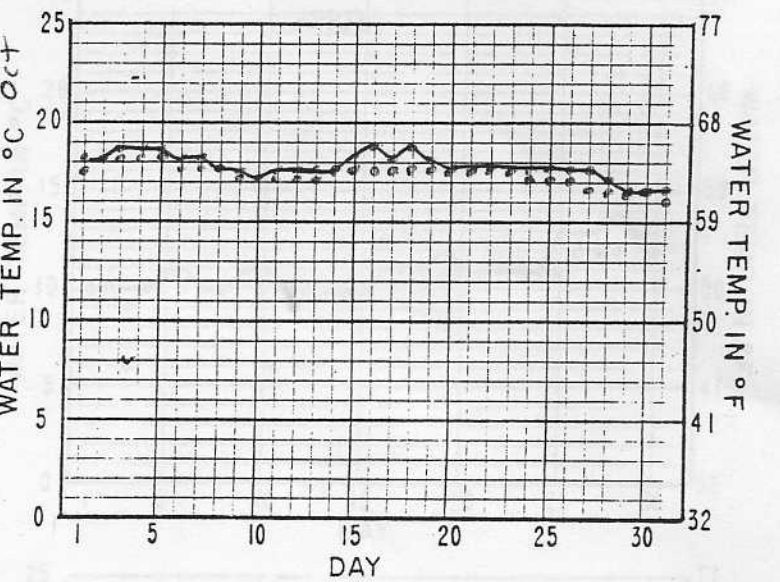
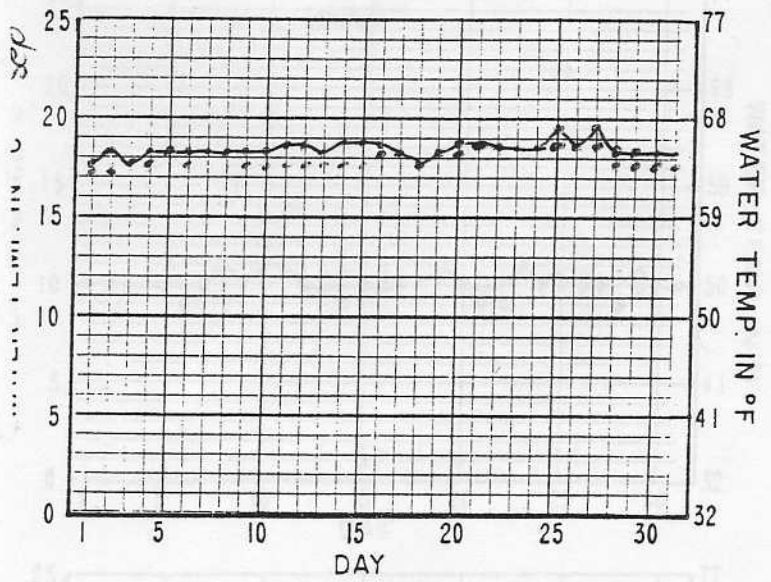
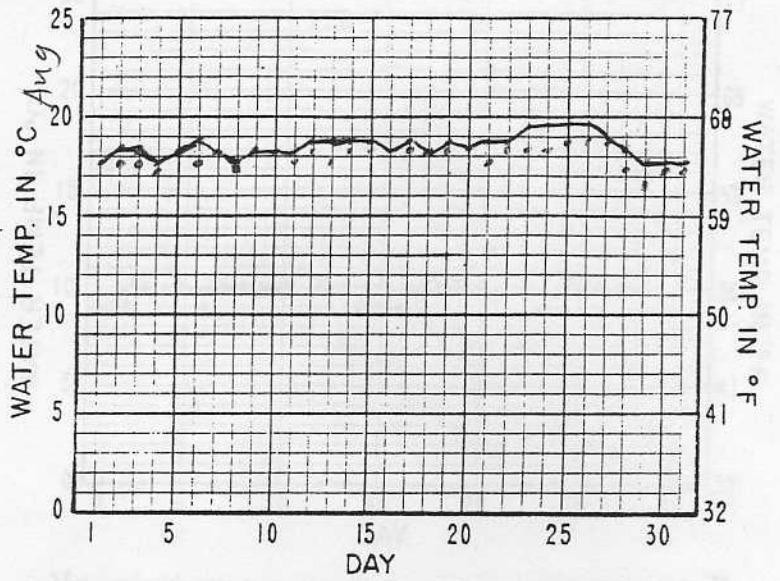
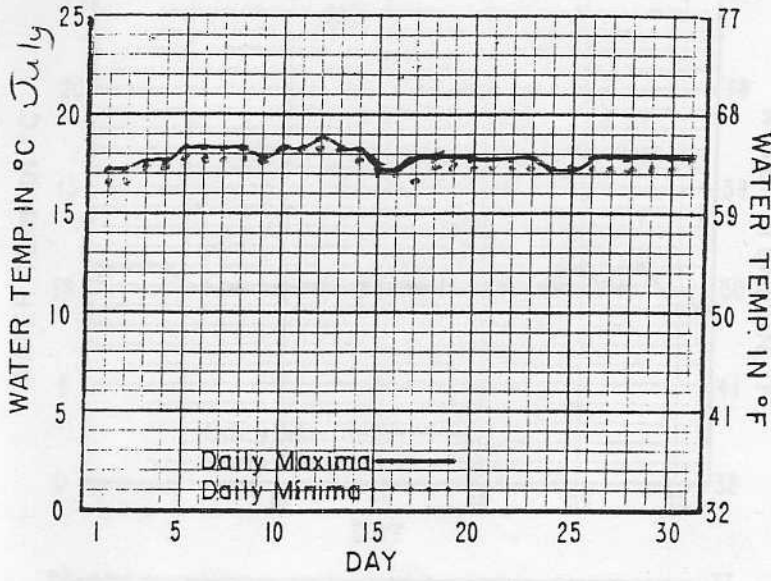


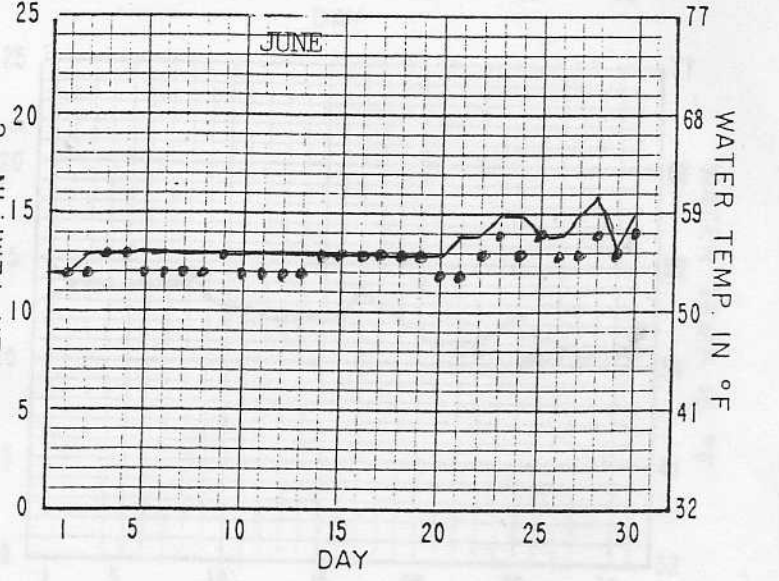
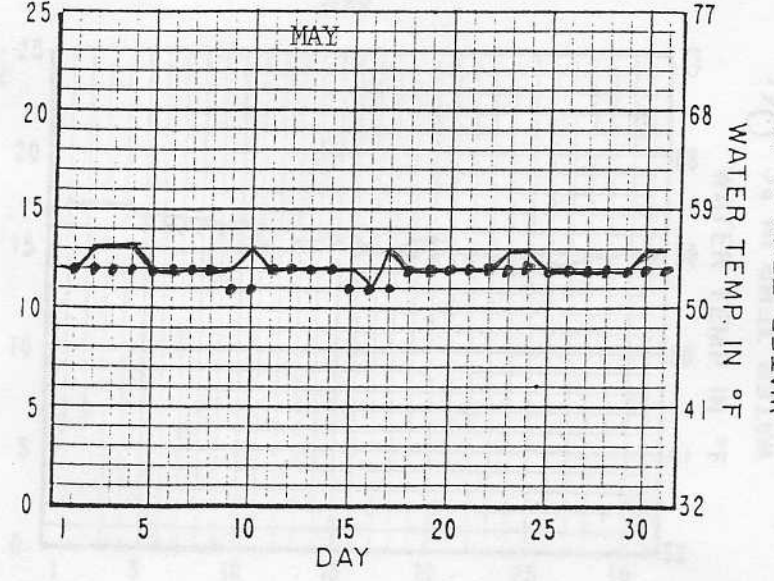
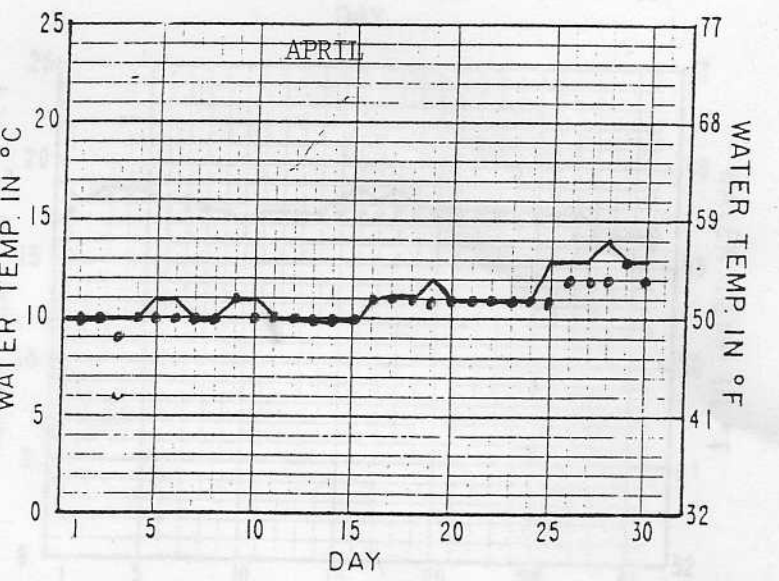
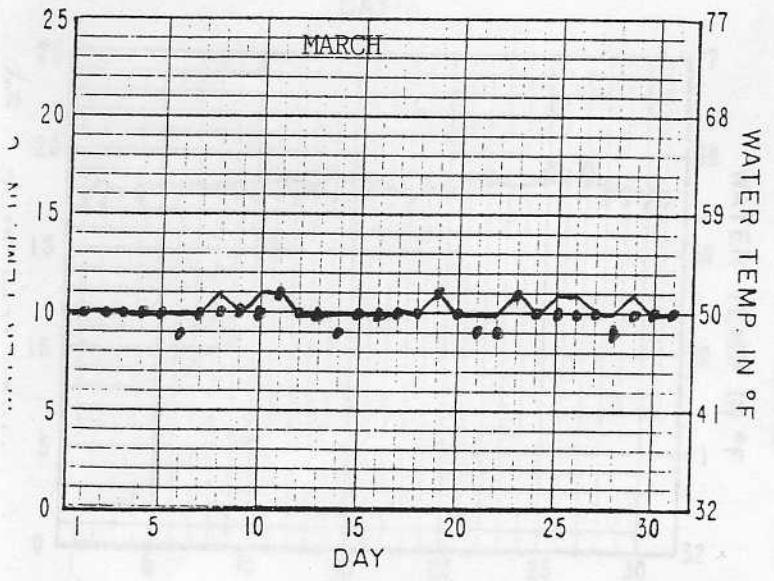
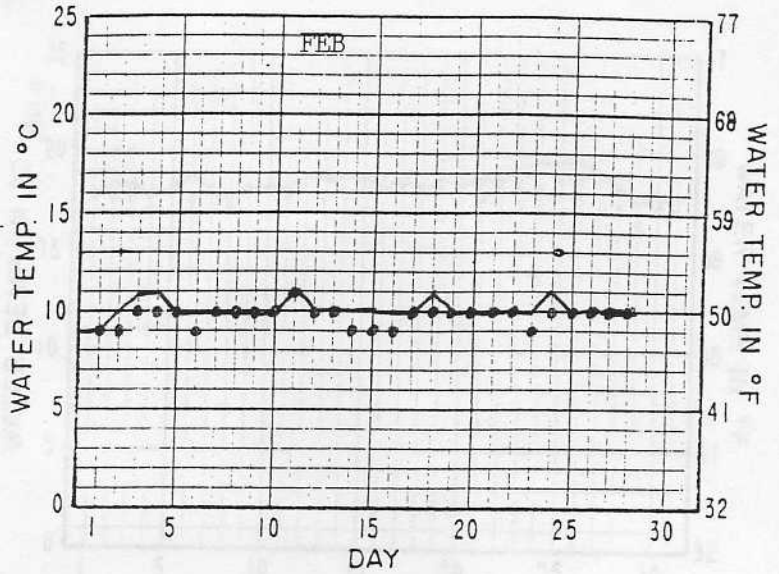
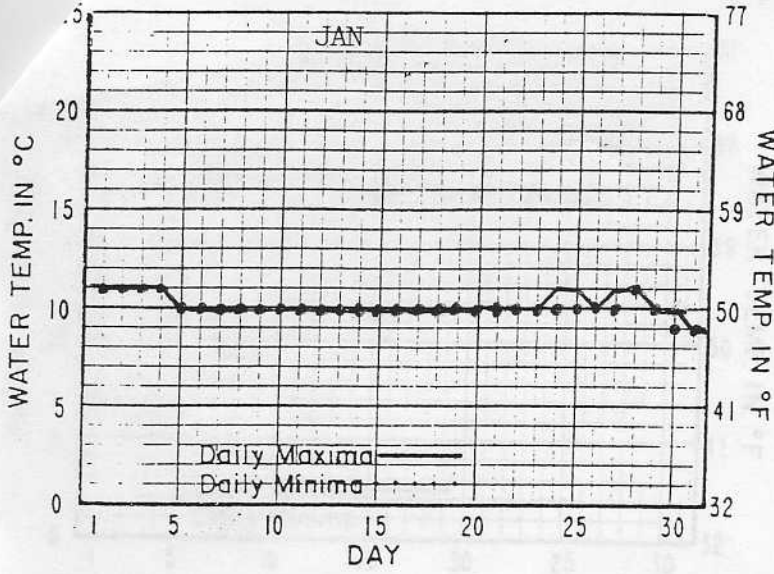
DAILY WATER TEMPERATURES BY MONTH

1997



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ANNUAL REPORT
NIMBUS SALMON AND STEELHEAD HATCHERY 1997-98

by

Terrance L. West
Region 2, Inland Fisheries

ABSTRACT

This report describes the operation of Nimbus Salmon and Steelhead Hatchery from July 1, 1997 through June 30, 1998. Tables represent numbers of fish trapped, eggs taken, fish reared and released, and water temperatures. There were 6,142 chinook salmon, Oncorhynchus tshawytscha, trapped, which produced 10,233,697 eggs. There were 679 winter-run steelhead, O. mykiss, trapped, from which 709,534 eggs were taken.

During the year hatchery personnel planted or transferred a total of 2,437,900 fingerlings and 4,021,864 advanced fingering chinook salmon, and 385,887 yearling steelhead trout.

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PRODUCTION SUMMARY

During 1997-98, hatchery personnel took 10,943,231 eggs and planted or transferred 6,845,651 chinook salmon and steelhead trout (Table 1).

Table 1. Production Summary, Nimbus Salmon and Steelhead Hatchery, 1998-99

Species	Eggs Taken or Received	Eggs or Fish Transferred	Fingerlings Planted	Advanced Fingerlings or Yearlings Planted	Total Weight Planted (lb)
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1996 BY	0	0	0	0	0
1997 BY	10,233,697	449,360	1,988,540	4,021,864	83,214
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1997 BY		0	0	385,887	105,550
1998 BY	709,534	0	0	0	0

HATCHERY OPERATIONS

The weir was installed September 23, 1997, by the Bureau of Reclamation. The weir pickets were lowered and capped on September 25, 1997. The lower gate in the ladder was removed and the holding pond was opened November 03, 1997. Water temperature was 59/60 degrees F. The ladder was closed April 08, 1998.

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Shutters on units 1&2 were raised on October 28, and Water temperature at the Nimbus Fish Hatchery on November 03, 1997 was 59/60 degrees F.

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Edible salmon carcasses were given to State and County institutions, community action groups, or councils representing local Indians. All inedible carcasses went to a local rendering plant. The total dispensed was 56,620 lbs edible and 17,000 lbs inedible.

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An estimated 767,350 people visited Nimbus Hatchery this year. This number was determined by an automatic car counter installed at the parking lot entrance, and employee counts of bus passengers and bicyclists. November was the peak month, with an estimated 175,222 visitors.

CHINOOK SALMON MAINTENANCE PROGRAM

Chinook Salmon Counts

The fish ladder was opened November 03, 1997 and the first spawning took place on November 04, 1997. A total of 6,142 salmon entered the holding pond this season, including 3,253 males, 2,566 females and 1674 grilse. Grilse were fish 60 cm (23.6 inches) fork length or smaller (Appendix Table 1). A total of 4,078 carcasses were removed from the weir: 823 males, 1,142 females and 2,113 grilse.

Sorting and Spawning

Of the females counted, 2,262 were spawned, 304 died in the ponds. The spawning season, which began November 04, 1997 and ended December 15, 1997 produced a total of 10,233,697 eggs, for an average of 4,524 eggs per female. Fertility, determined by the difference between green eggs taken and the total eggs eyed, ranged from 48% to 90%, with an average of 67 %.

Marked Chinook Salmon Recoveries

All fish were examined for marks as they were processed or removed dead from the holding ponds. Heads were removed from all adipose fin-clipped fish for recovery of coded-wire tags (see Appendix Table 2 for tag recovery results).

Chinook Salmon Planting

1996 Brood Year

There were not any 96 **BY** Chinook salmon on hand July 1, 1997

1997 Brood Year

We released 6,010,404 fingerlings and advanced fingerlings (Table 2). None of the fish released were coded-wire tagged. We also transferred 449,360 fingerlings to Mokelumne River Hatchery.

Table 2. Planting Data for 1997 Brood Year Chinook Salmon

Month	Release Site	Fingerlings	Advanced Fingerlings	Average size/lb	Weight (lb)
<u>1996 BY</u>	0	0	0	0	0
<u>1997 BY</u>					
March	Coon Creek	120,450	0	730	165
	Dry Creek	366,700	0	815	450
	Auburn Ravine	126,900	0	846	150
	Garcia Bend	1,253,570		821	1527
April	Monterey Bay	60,720	0	92	660
May	Avila Beach	0	70,210	59	1,190
	Monterey Bay	60,200	0	70	860
	Benicia	0	570,400	55.9	10,200
	Wickland Oil	0	108,000	60	1,800
	Wickland Oil Net Pens	0	264,000	60	4,400
June	Tiberon SF	0	52,000	40	1,300
	Bay	0	132,000	60	2,200
	Bennet's	0	132,000	60	2,200
	Wickland Oil	0	2,693,254	51.9	51,850
	Wickland Oil Net Pens				
Total		1,988,540	4,021,864		

WINTER-RUN STEELHEAD MAINTENANCE PROGRAM

History of the 1999 Winter Run

All steelhead entering the holding pond were spawned as winter-run steelhead (Table 3). All fish were examined for marks as they were processed or removed dead from the ponds. No marked fish were seen.

Table 3. Counts of Winter-Run Steelhead, Nimbus Salmon and Steelhead Hatchery, 1997-98.

Date	Spawned and Released		Pre-spawning Mortality		Released Unspawned		Total
	Males	Females	Males	Females	Males	Females	
Nov 03	0	0	0	0	1	2	3
Nov 11	0	0	0	0	0	0	0
Nov 19	0	0	0	0	0	0	0
Nov 26	0	0	0	0	0	1	1
Dec 04	0	0	0	0	7	4	11
Dec 10	0	0	0	0	10	8	18
Dec 15	6	2	0	0	5	10	23
Dec 22	7	3	0	0	0	0	10
Dec 29	11	5	2	2	0	0	20
Jan 05	18	11	0	1	0	0	30
Jan 14	34	17	0	0	0	0	51
Jan 21	30	17	0	0	0	0	47
Jan 28	25	15	0	0	0	0	40
Feb 04	12	6	0	0	0	0	18
Feb11	25	12	0	0	0	0	37
Feb18	9	4	1	0	0	0	14
Feb25	15	7	1	0	18	0	41
Mar06	12	6	0	0	15	0	33
Mar11	22	11	0	0	28	0	61
Mar18	22	10	2	0	20	0	54
Mar25	18	8	0	0	10	0	36
Apr 8	18	5	0	0	22	6	51

Total	283	139	6	3	137	31	599
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Spawning Data 1998 Brood Year

The 139 females spawned produced 709,534 eggs, for an average of 5,104 eggs per female. Survival of green eggs to eyed eggs ranged from 49% to 99%, with an average of 92%.

Winter-run Steelhead Planted

1997 Brood Year

Table 4. Planting and Transfer Data, 1997 Brood Year Winter-run Steelhead, Nimbus Salmon and Steelhead Hatchery, 1997-98

Nimbus Steelhead Planted & Transferred

Month	Release Site	Number of Fingerlings	Number of Yearlings	Average Size/lb	Weight (lb)
Jan	Rio Vista	0	117,420	2.89	40,600
Jan	Garcia Bend	0	268,467	4.13	64,950
Total	0	0	385,887	3.65	105,550

1998 Brood Year

No fingerlings were released into the American River at the foot of the ladder; and were no fingerlings transferred to Mokelumne River Hatchery. On June 30, 1998, approximately 652,500 98 BY American River steelhead fingerlings were on hand. Approximately 430,000 of these will be released as yearlings in January and February of 1999. There were not any eyed eggs transferred to Mokelumne River Hatchery, **and all of BY 1998 Steelhead were adipose clipped before planting.**

Steelhead Disease Information

1998 Brood Year

Minor outbreaks of Columnaris, Ich and Costia were controlled using Formaldehyde flushes, Salt, Potassium Permanganate, Hydrogen Peroxide and Terramycin milled or mixed into the fish food.

Appendix Table 1.

Weekly Adult Salmon and Steelhead Trapping Data for Nimbus Hatchery, 1997-98.

Week	Year	Chinook Salmon		Steelhead Trout		Half pounders
		Adults	Grilse	Males	Females	
Nov 2-8	1997	557	111	1	2	0
Nov 9-15	1997	988	32	0	0	0
Nov 16-22	1997	1180	34	0	0	0
Nov 23-30	1997	1274	93	0	1	0
Dec 1-6	1997	875	26	7	4	0
Dec 7-13	1997	731	16	10	8	0
Dec 14-20	1997	214	11	11	12	0
Dec 21-27	1997	0	0	7	3	0
Dec 28-Jan 3	1998	0	0	13	7	0
Jan 4- 10	1998	0	0	18	12	0
Jan 11- 17	1998	0	0	34	17	10
Jan 18- 24	1998	0	0	30	17	16
Jan 25- 31	1998	0	0	25	15	0
Feb 1- 7	1998	0	0	12	6	8
Feb 8 - 14	1998	0	0	25	12	12
Feb 15- 21	1998	0	0	10	4	4

			8			
Feb 22- 28	1998	0	0	34	7	2
Mar 1 - 7	1998	0	0	27	6	0
Mar 8 -14	1998	0	0	50	11	8
Mar 15 - 21	1998	0	0	44	10	5
Mar 22 - 28	1998	0	0	28	8	14
Mar 29 Apr 5	1998	0	0	41	11	1
Total		5819	323	426	173	80

Half Pounders = < 22 in.

Appendix Table 2.

Chinook Salmon Coded-Wire Tag Recoveries.
Preliminary Data, Nimbus Hatchery, 1997-98

CWT	Number Recovered	Brood Year	Hatchery of Origin	Release Site
054111	8	1995	Coleman	Port Chicago
054112	10	1995	Coleman	Courtland
054113	3	1995	Coleman	Georgiana Clough
054114	4	1995	Coleman	Ryde
054229	1	1996	Coleman	Benecia
0601110405	1	1994	Merced	Merced River
06301110413	1	1995	Merced	Dos Reis Road
0601110501	1	1995	Merced	Jersey Point
0601130106	1	1994	Mokelumne	Woodbridge
060207	2	1994	Mokelumne	Crockett
060208	1	1994	Mokelumne	Crockett
060209	1	1994	Mokelumne	Crockett
060210	1	1994	Mokelumne	Thornton
060211	1	1994	Mokelumne	Thornton
060212	4	1994	Mokelumne	Thornton
060213	7	1994	Mokelumne	Thornton
060214	4	1994	Mokelumne	Thornton
060216	1	1995	Mokelumne	Thornton
060220	1	1995	Mokelumne	Thornton
060221	1	1995	Mokelumne	Thrornton

060228	1	1995	Mokelumne	Rodeo
060229	1	1995	Mokelumne	Rodeo
062524	1	1994	Coleman	Isleton
062525	1	1994	Coleman	Georgiana Slough
062933	1	1994	Feather	Rodeo
062938	1	1995	Feather	Rodeo
064522	2	1993	Coleman	Ryde
064801	1	1993	Mokelumne	Thornton
064802	1	1993	Mokelumne	Thornton
064804	1	1993	Mokelumne	Thornton
066347	1	1993	Mokelumne	Thornton
100000 b/	22			
Total:	86			

a/Feathe River Hatchery stock.

b/No CWT.

* No tag

Appendix Table 3. Summary of Fish Runs to Nimbus Salmon and Steelhead Hatchery

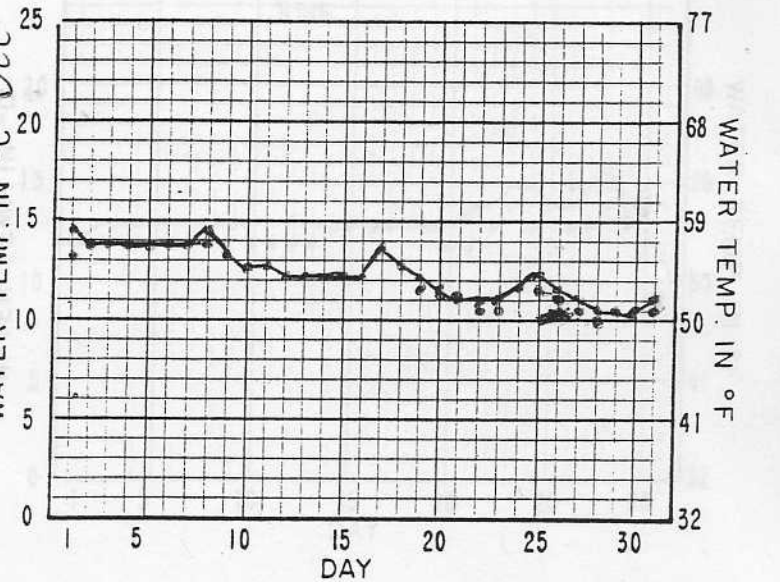
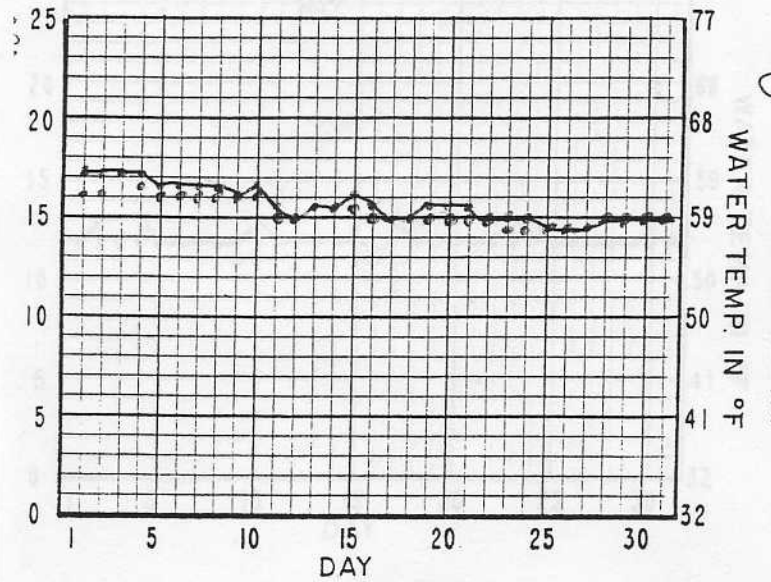
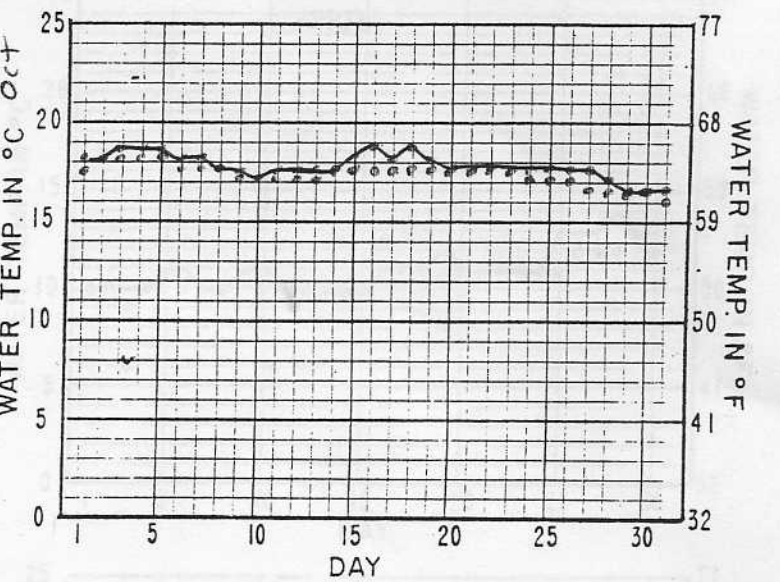
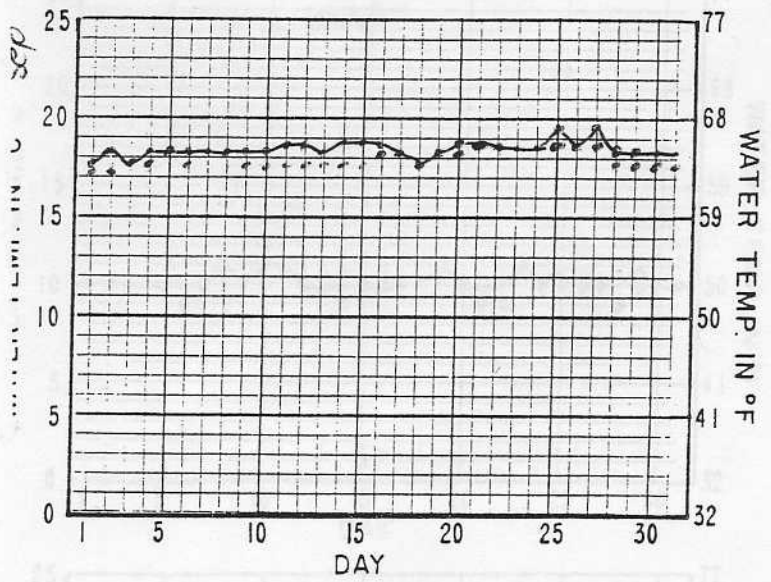
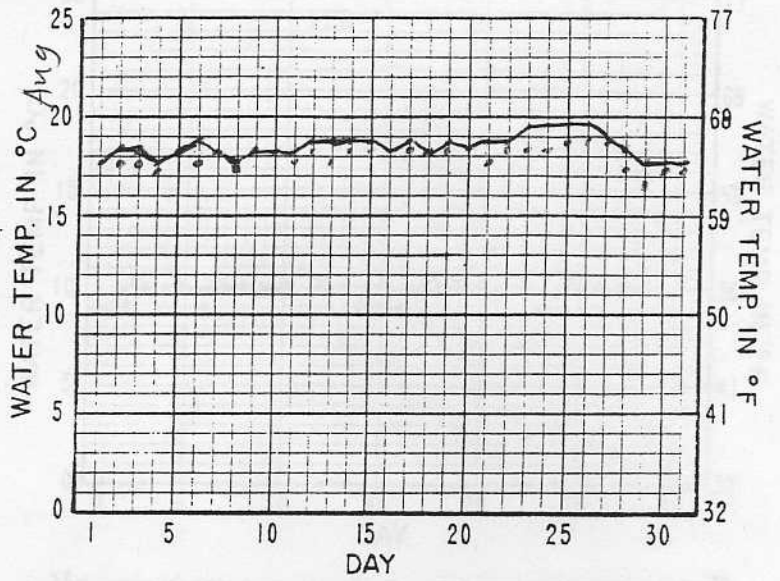
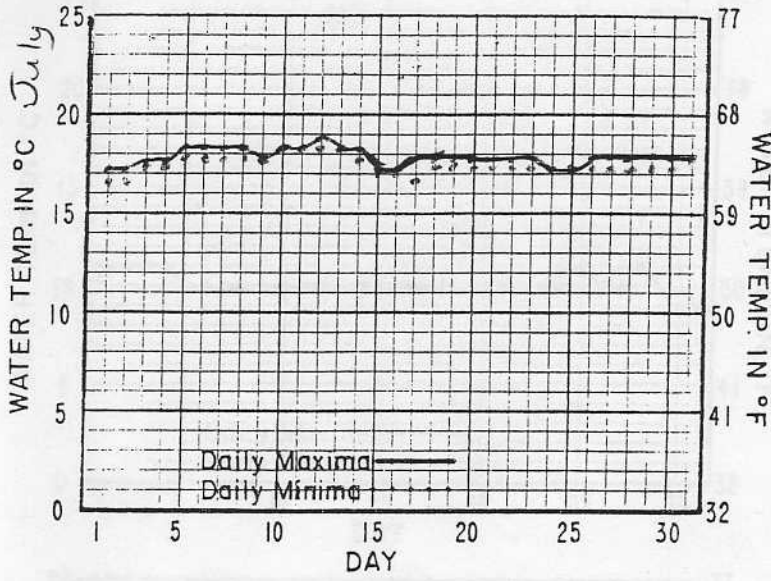
Year	Chinook Salmon		Grilse	Steelhead
	Males	Females		
1955-56	4,427	3,012	*	110
1956-57	267	502	774	115
1957-58	297	341	252	51
1958-59	2,655	638	1,538	102
1959-60	3,003	7,366	2,866	778
1960-61	13,455	6,487	9,331	316
1961-62	3,446	9,257	1,638	137
1962-63	5,088	4,138	3,442	2,141
1963-64	1,213	1,215	813	1,216
1964-65	7,209	8,799	4,534	778
1965-66	5,295	7,595	786	874
1966-67	2,434	5,098	573	642
1967-68	2,022	2,392	733	1,183
1968-69	1,318	2,740	1,175	2,449
1969-70	1,488	1,061	521	1,733
1970-71	3,027	4,827	770	3,033
1971-72	3,384	4,493	1,269	2,256
1972-73	2,195	3,252	1,659	2,506
1973-74	5,155	5,704	1,676	3,157
1974-75	2,762	4,746	671	2,295
1975-76	2,734	3,833	846	2,262
1976-77	2,002	2,340	894	1,307
1977-78	3,496	2,874	498	619
1978-79	2,348	3,767	2,047	680
1979-80	4,779	2,394	3,067	1,310
1980-81	6,122	7,553	2,068	836
1981-82	10,497	7,286	2,805	3,190

1982-83	4,535	3,813	2,576	1,003
1983-84	3,081	3,486	2,514	5,155
1984-85	4,548	5,748	1,953	910
1985-86	3,349	4,439	1,305	1,193
1986-87	2,168	2,617	910	1,431
1987-88	1,759	1,586	2,913	705
1988-89	3,777	4,187	661	289
1989-90	4,105	5,125	511	594
1990-91	1,773	2,251	823	223
1991-92	3,245	3,524	359	1,359
1992-93	2,458	2,649	1,349	241
1993-94	3,181	4,162	3,313	504
1994-95	3,408	4,267	892	3,805
1995-96	2,950	2,224	1,324	2,257
1996-97	3,554	3,622	475	1,353
1997-98	3,253	2,566	323	679

* Included in adult male.

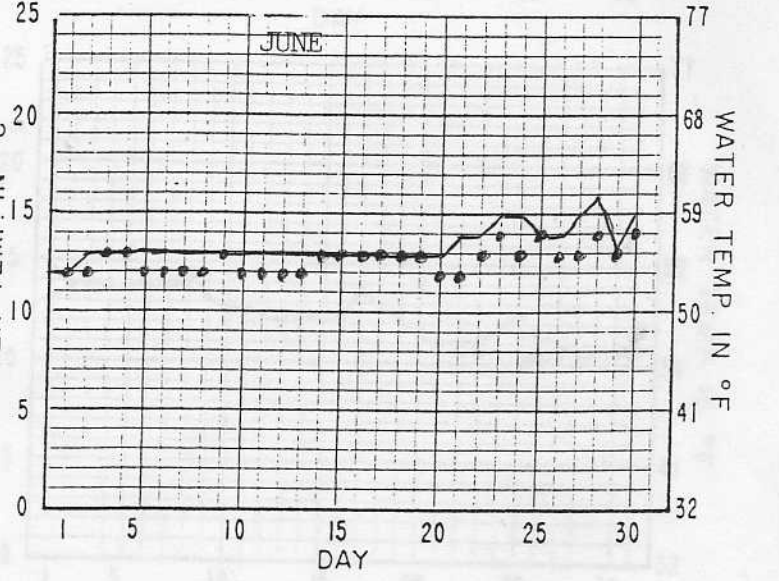
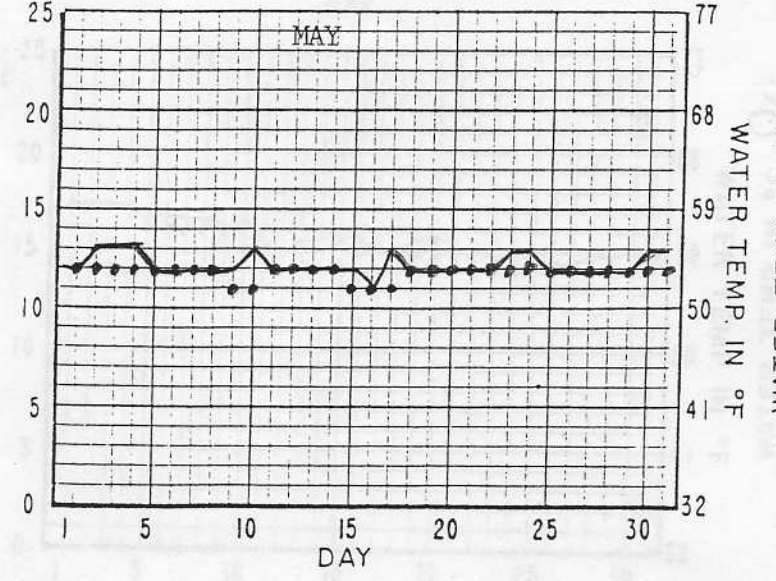
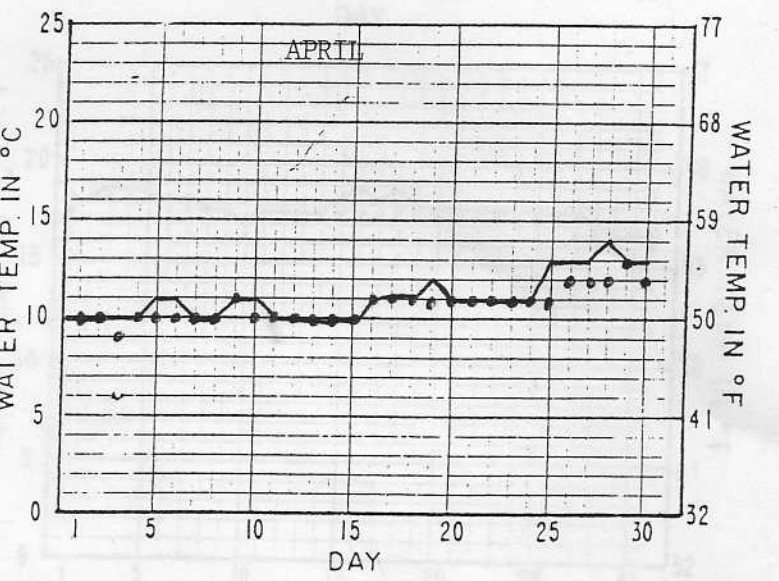
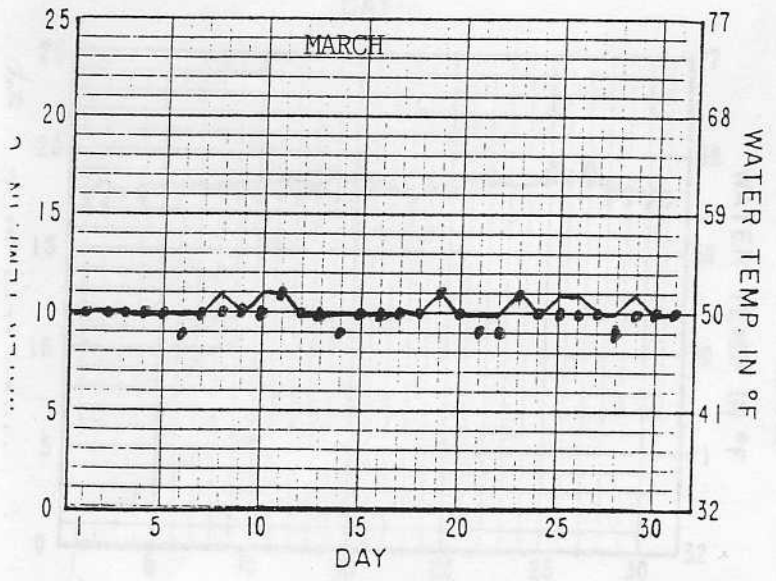
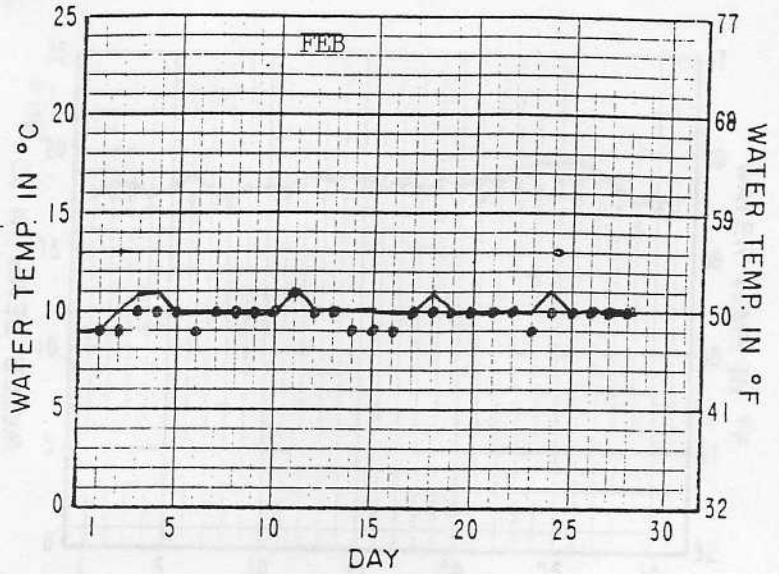
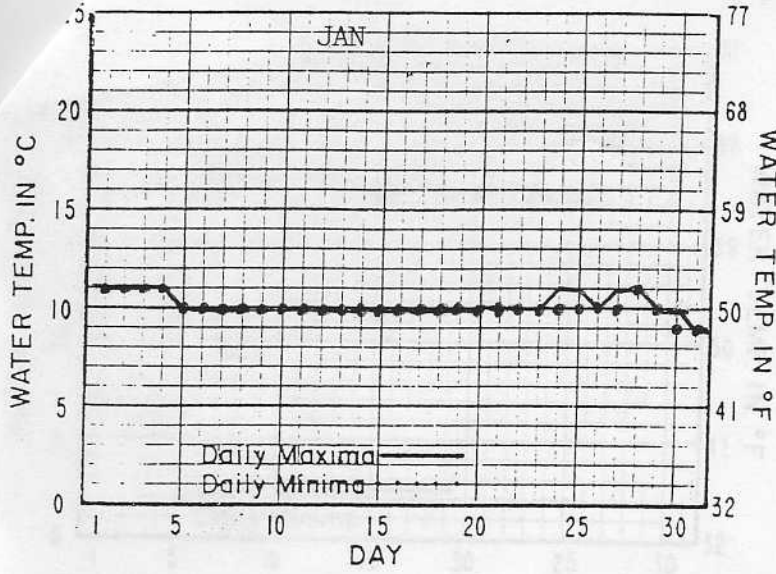
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All steelhead entering the holding pond were spawned as winter-run steelhead (Table 3). All fish were examined for marks as they were processed or removed dead from the ponds. No marked fish were seen.

Table 3. Counts of Winter-Run Steelhead, Nimbus Salmon and Steelhead Hatchery, 1997-98.

Date	Spawned and Released		Pre-spawning Mortality		Released Unspawned		Total
	Males	Females	Males	Females	Males	Females	
Nov 03	0	0	0	0	1	2	3
Nov 11	0	0	0	0	0	0	0
Nov 19	0	0	0	0	0	0	0
Nov 26	0	0	0	0	0	1	1
Dec 04	0	0	0	0	7	4	11
Dec 10	0	0	0	0	10	8	18
Dec 15	6	2	0	0	5	10	23
Dec 22	7	3	0	0	0	0	10
Dec 29	11	5	2	2	0	0	20
Jan 05	18	11	0	1	0	0	30
Jan 14	34	17	0	0	0	0	51
Jan 21	30	17	0	0	0	0	47
Jan 28	25	15	0	0	0	0	40
Feb 04	12	6	0	0	0	0	18
Feb11	25	12	0	0	0	0	37
Feb18	9	4	1	0	0	0	14
Feb25	15	7	1	0	18	0	41
Mar06	12	6	0	0	15	0	33
Mar11	22	11	0	0	28	0	61
Mar18	22	10	2	0	20	0	54
Mar25	18	8	0	0	10	0	36
Apr 8	18	5	0	0	22	6	51

Total	283	139	6	3	137	31	599
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Spawning Data 1998 Brood Year

The 139 females spawned produced 709,534 eggs, for an average of 5,104 eggs per female. Survival of green eggs to eyed eggs ranged from 49% to 99%, with an average of 92%.

Winter-run Steelhead Planted

1997 Brood Year

Table 4. Planting and Transfer Data, 1997 Brood Year Winter-run Steelhead, Nimbus Salmon and Steelhead Hatchery, 1997-98

Nimbus Steelhead Planted & Transferred

Month	Release Site	Number of Fingerlings	Number of Yearlings	Average Size/lb	Weight (lb)
Jan	Rio Vista	0	117,420	2.89	40,600
Jan	Garcia Bend	0	268,467	4.13	64,950
Total	0	0	385,887	3.65	105,550

1998 Brood Year

No fingerlings were released into the American River at the foot of the ladder; and were no fingerlings transferred to Mokelumne River Hatchery. On June 30, 1998, approximately 652,500 98 BY American River steelhead fingerlings were on hand. Approximately 430,000 of these will be released as yearlings in January and February of 1999. There were not any eyed eggs transferred to Mokelumne River Hatchery, **and all of BY 1998 Steelhead were adipose clipped before planting.**

Steelhead Disease Information

1998 Brood Year

Minor outbreaks of Columnaris, Ich and Costia were controlled using Formaldehyde flushes, Salt, Potassium Permanganate, Hydrogen Peroxide and Terramycin milled or mixed into the fish food.

Appendix Table 1.

Weekly Adult Salmon and Steelhead Trapping Data for Nimbus Hatchery, 1997-98.

Week	Year	Chinook Salmon		Steelhead Trout		Half pounders
		Adults	Grilse	Males	Females	
Nov 2-8	1997	557	111	1	2	0
Nov 9-15	1997	988	32	0	0	0
Nov 16-22	1997	1180	34	0	0	0
Nov 23-30	1997	1274	93	0	1	0
Dec 1-6	1997	875	26	7	4	0
Dec 7-13	1997	731	16	10	8	0
Dec 14-20	1997	214	11	11	12	0
Dec 21-27	1997	0	0	7	3	0
Dec 28-Jan 3	1998	0	0	13	7	0
Jan 4- 10	1998	0	0	18	12	0
Jan 11- 17	1998	0	0	34	17	10
Jan 18- 24	1998	0	0	30	17	16
Jan 25- 31	1998	0	0	25	15	0
Feb 1- 7	1998	0	0	12	6	8
Feb 8 - 14	1998	0	0	25	12	12
Feb 15- 21	1998	0	0	10	4	4

			8			
Feb 22- 28	1998	0	0	34	7	2
Mar 1 - 7	1998	0	0	27	6	0
Mar 8 -14	1998	0	0	50	11	8
Mar 15 - 21	1998	0	0	44	10	5
Mar 22 - 28	1998	0	0	28	8	14
Mar 29 Apr 5	1998	0	0	41	11	1
Total		5819	323	426	173	80

Half Pounders = < 22 in.

Appendix Table 2.

Chinook Salmon Coded-Wire Tag Recoveries.
Preliminary Data, Nimbus Hatchery, 1997-98

CWT	Number Recovered	Brood Year	Hatchery of Origin	Release Site
054111	8	1995	Coleman	Port Chicago
054112	10	1995	Coleman	Courtland
054113	3	1995	Coleman	Georgiana Clough
054114	4	1995	Coleman	Ryde
054229	1	1996	Coleman	Benecia
0601110405	1	1994	Merced	Merced River
06301110413	1	1995	Merced	Dos Reis Road
0601110501	1	1995	Merced	Jersey Point
0601130106	1	1994	Mokelumne	Woodbridge
060207	2	1994	Mokelumne	Crockett
060208	1	1994	Mokelumne	Crockett
060209	1	1994	Mokelumne	Crockett
060210	1	1994	Mokelumne	Thornton
060211	1	1994	Mokelumne	Thornton
060212	4	1994	Mokelumne	Thornton
060213	7	1994	Mokelumne	Thornton
060214	4	1994	Mokelumne	Thornton
060216	1	1995	Mokelumne	Thornton
060220	1	1995	Mokelumne	Thornton
060221	1	1995	Mokelumne	Thrornton

060228	1	1995	Mokelumne	Rodeo
060229	1	1995	Mokelumne	Rodeo
062524	1	1994	Coleman	Isleton
062525	1	1994	Coleman	Georgiana Slough
062933	1	1994	Feather	Rodeo
062938	1	1995	Feather	Rodeo
064522	2	1993	Coleman	Ryde
064801	1	1993	Mokelumne	Thornton
064802	1	1993	Mokelumne	Thornton
064804	1	1993	Mokelumne	Thornton
066347	1	1993	Mokelumne	Thornton
100000 b/	22			
Total:	86			

a/Feathe River Hatchery stock.

b/No CWT.

* No tag

Appendix Table 3. Summary of Fish Runs to Nimbus Salmon and Steelhead Hatchery

<u>Year</u>	<u>Chinook Salmon</u>		<u>Grilse</u>	<u>Steelhead</u>
	<u>Males</u>	<u>Females</u>		
1955-56	4,427	3,012	*	110
1956-57	267	502	774	115
1957-58	297	341	252	51
1958-59	2,655	638	1,538	102
1959-60	3,003	7,366	2,866	778
1960-61	13,455	6,487	9,331	316
1961-62	3,446	9,257	1,638	137
1962-63	5,088	4,138	3,442	2,141
1963-64	1,213	1,215	813	1,216
1964-65	7,209	8,799	4,534	778
1965-66	5,295	7,595	786	874
1966-67	2,434	5,098	573	642
1967-68	2,022	2,392	733	1,183
1968-69	1,318	2,740	1,175	2,449
1969-70	1,488	1,061	521	1,733
1970-71	3,027	4,827	770	3,033
1971-72	3,384	4,493	1,269	2,256
1972-73	2,195	3,252	1,659	2,506
1973-74	5,155	5,704	1,676	3,157
1974-75	2,762	4,746	671	2,295
1975-76	2,734	3,833	846	2,262
1976-77	2,002	2,340	894	1,307
1977-78	3,496	2,874	498	619
1978-79	2,348	3,767	2,047	680
1979-80	4,779	2,394	3,067	1,310
1980-81	6,122	7,553	2,068	836
1981-82	10,497	7,286	2,805	3,190

1982-83	4,535	3,813	2,576	1,003
1983-84	3,081	3,486	2,514	5,155
1984-85	4,548	5,748	1,953	910
1985-86	3,349	4,439	1,305	1,193
1986-87	2,168	2,617	910	1,431
1987-88	1,759	1,586	2,913	705
1988-89	3,777	4,187	661	289
1989-90	4,105	5,125	511	594
1990-91	1,773	2,251	823	223
1991-92	3,245	3,524	359	1,359
1992-93	2,458	2,649	1,349	241
1993-94	3,181	4,162	3,313	504
1994-95	3,408	4,267	892	3,805
1995-96	2,950	2,224	1,324	2,257
1996-97	3,554	3,622	475	1,353
1997-98	3,253	2,566	323	679

* Included in adult male.