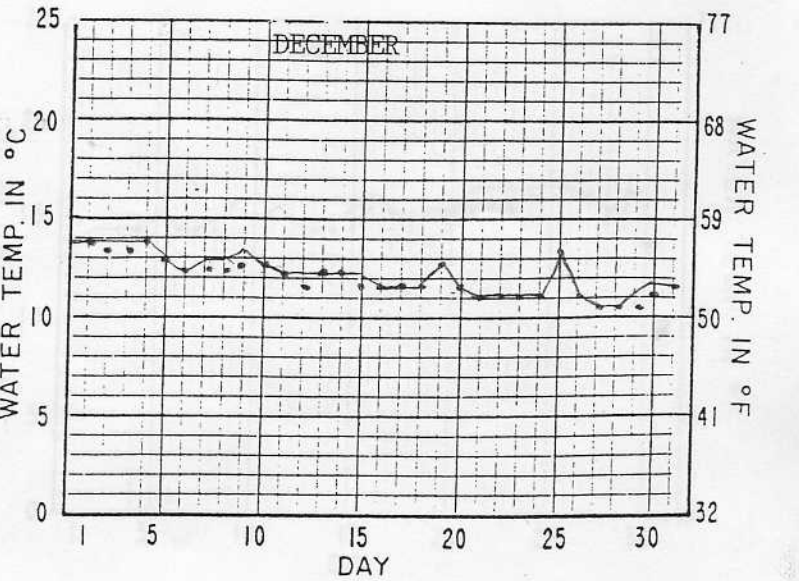
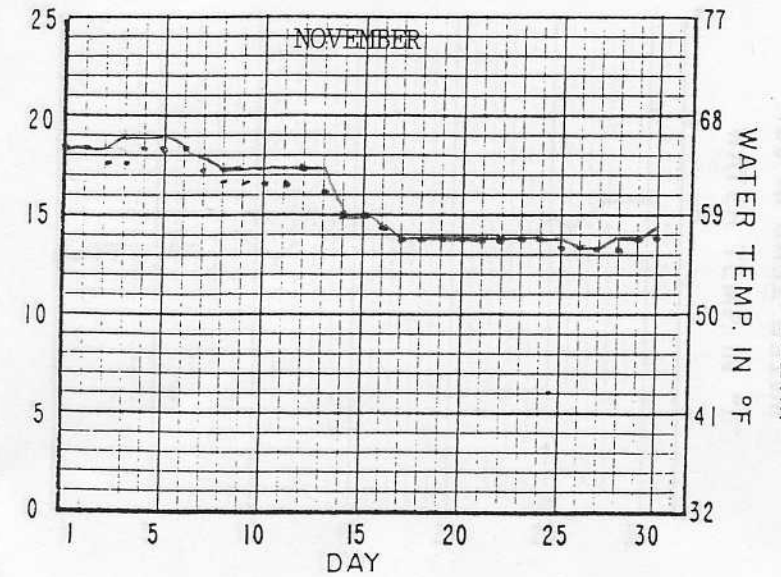
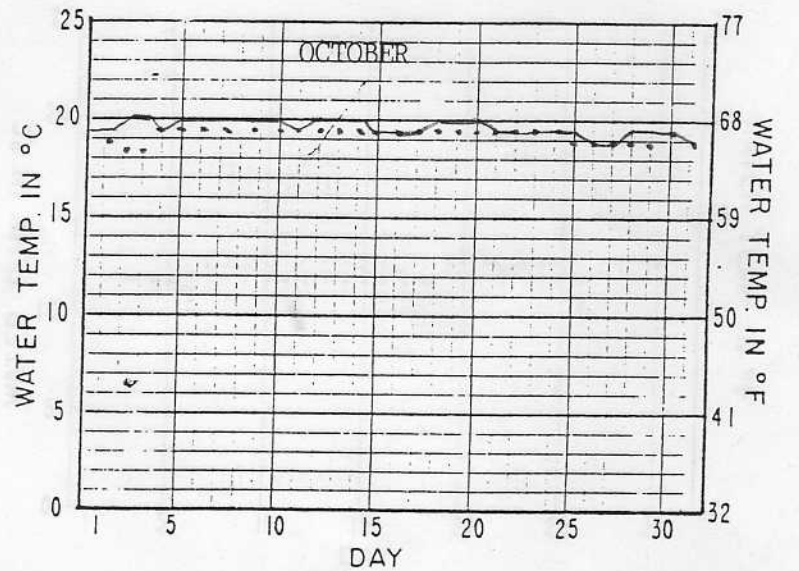
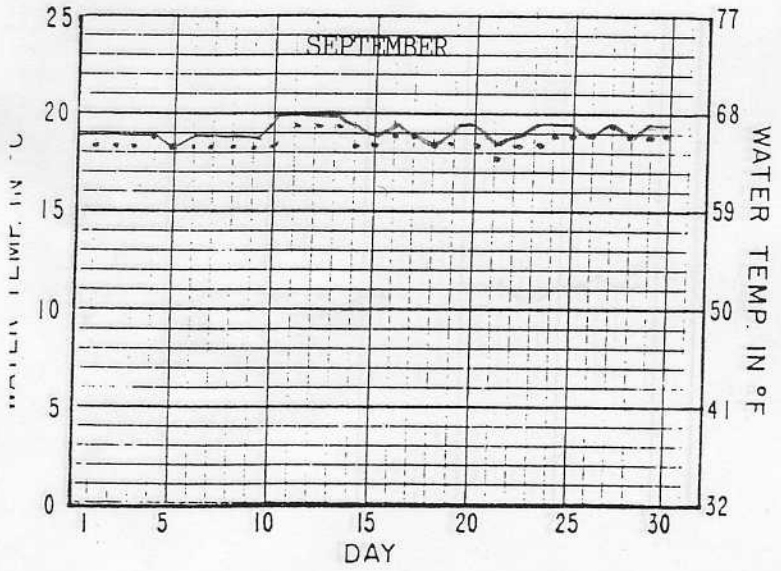
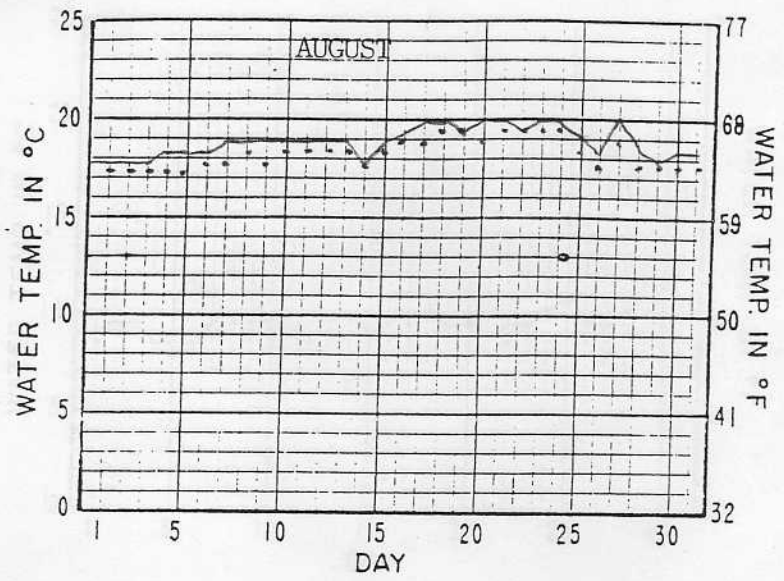
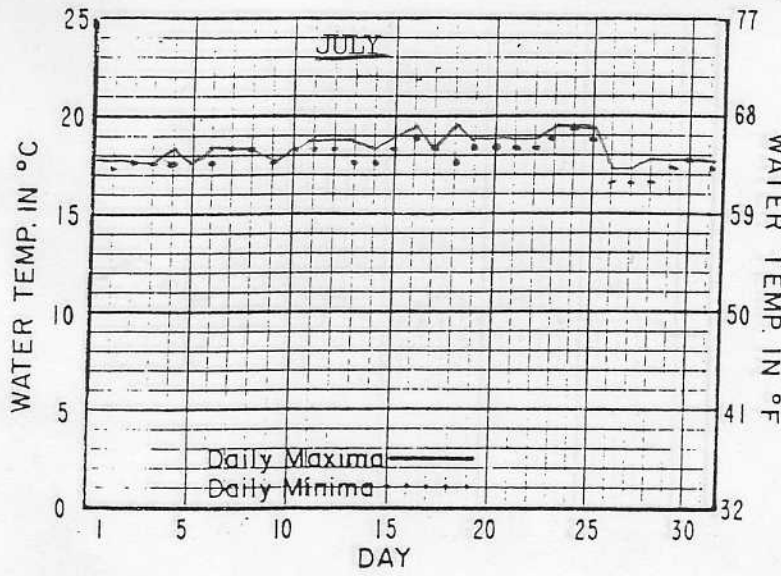


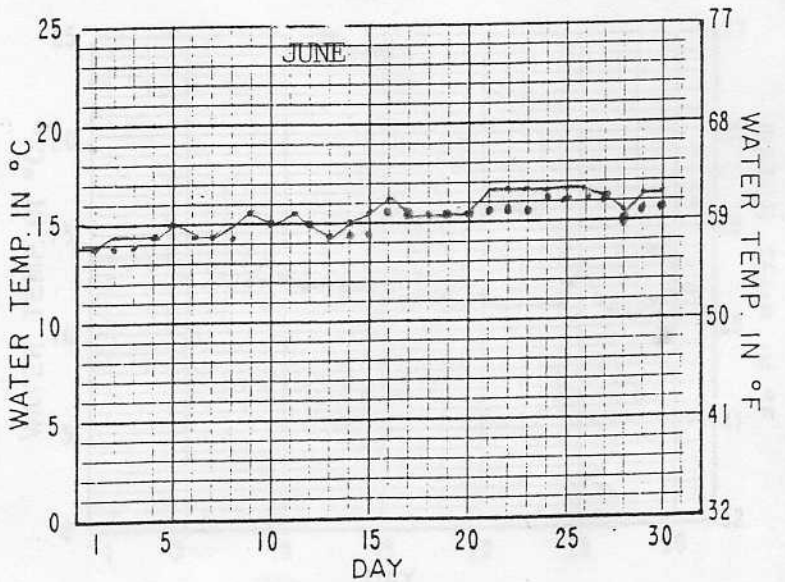
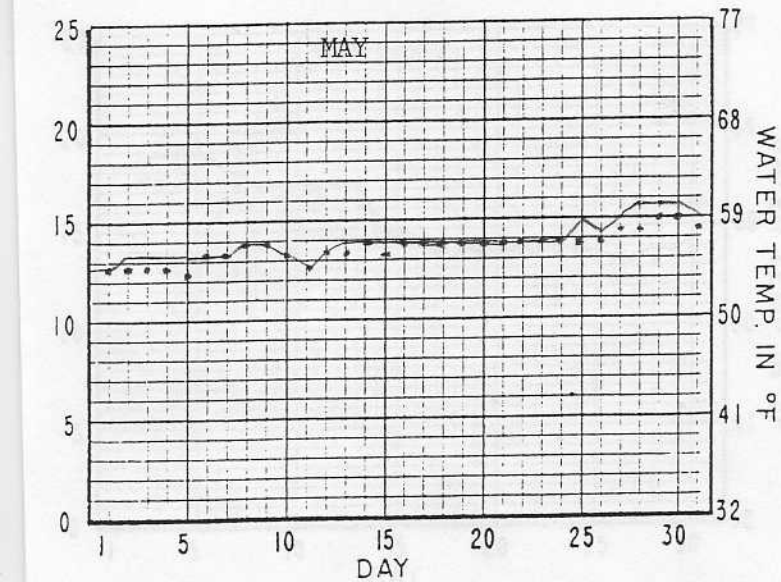
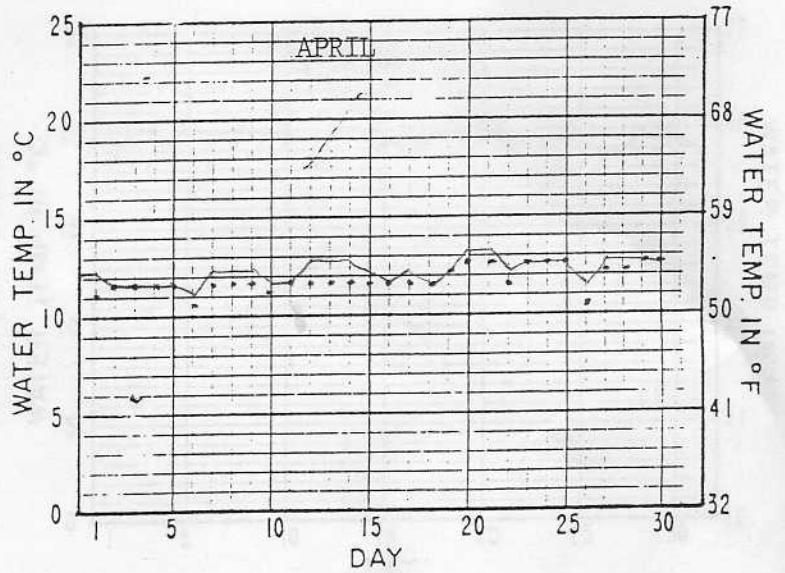
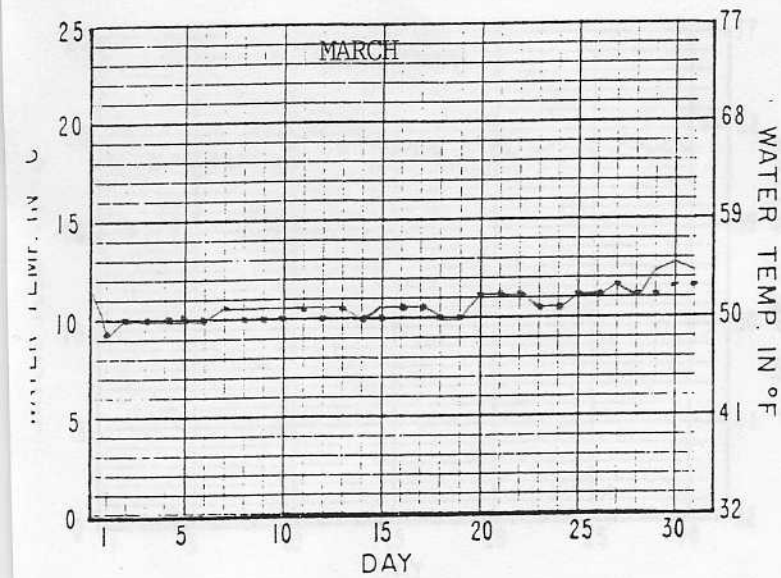
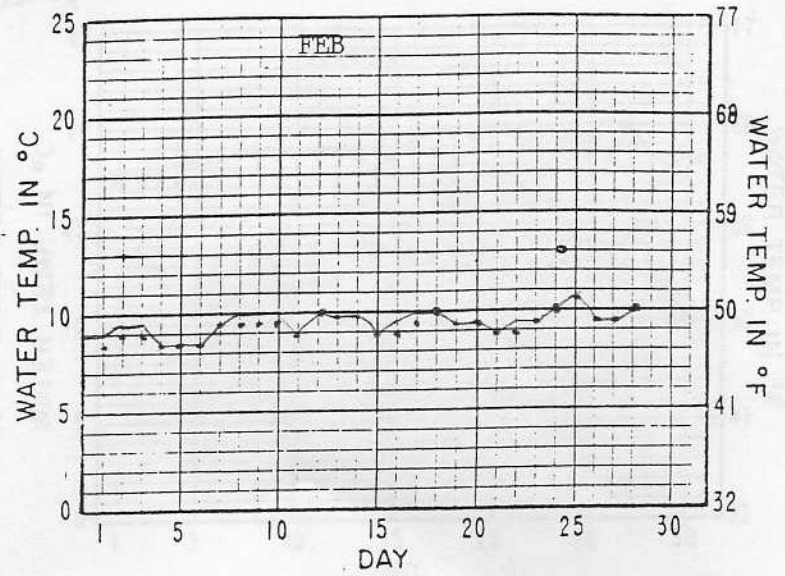
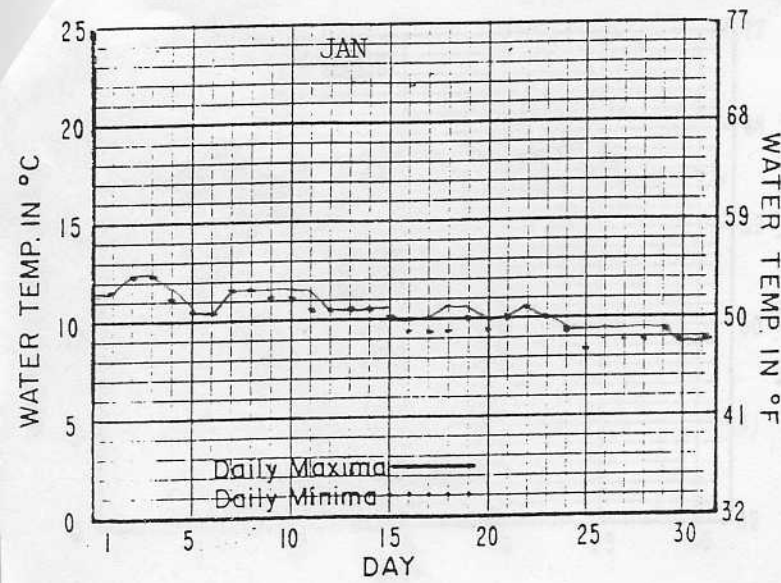
# DAILY WATER TEMPERATURES BY MONTH

2001



# DAILY WATER TEMPERATURES BY MONTH

2002



ANNUAL REPORT  
NIMBUS SALMON AND STEELHEAD HATCHERY 2001-02

by

Terrance L. West  
Region 2, Inland Fisheries

ABSTRACT

This report describes the operation of Nimbus Salmon and Steelhead Hatchery from July 1, 2001 through June 30, 2002. Tables represent numbers of fish trapped, eggs taken, fish reared and released, and water temperatures. There were 11,750 chinook salmon, Oncorhynchus tshawytscha, trapped, which produced 8,502,971 eggs. There were 1,469 winter-run steelhead, O. mykiss, trapped, from which 1,168,244 eggs were taken.

During the year hatchery personnel planted, 576,000 advanced fingerling, 1,909,232 fingerling, chinook salmon, 281,705 yearling steelhead trout.

## INTRODUCTION

This is the 47th annual report for Nimbus Salmon and Steelhead Hatchery. The hatchery is located on the American River near the base of Nimbus Dam and is operated by the California Department of Fish and Game under contract with the United States Bureau of Reclamation. This report summarizes the Hatchery activities during 2001-2002, with particular reference to numbers of fish trapped, spawned, and released, eggs taken and fish produced, and other pertinent information.

## PRODUCTION SUMMARY

During 2001-2002, hatchery personnel took 9,671,215 eggs and planted 2,766,937 chinook salmon and steelhead trout (Table 1).

Table 1. Production Summary, Nimbus Salmon and Steelhead Hatchery, 2001-2002

Species	Eggs Taken or Received	Eggs or Fish Transferred	Fingerlings Planted	Advanced Fingerlings or Yearlings Planted	Total Weight Planted (lb)
CHIN					
2000 BY	0	0	0	0	0
2001 BY	8,502,971	0	1,909,232	576,000	38,964
SH					
2001 BY	0	0	0	281,705	89,584
2002 BY	1,168,244	0	0	0	0

## HATCHERY OPERATIONS

The weir was installed September 18, 2001, by the Bureau of Reclamation. The weir pickets were lowered and capped on September 19, 2001. The lower gate in the ladder was removed and the holding pond was opened November 13, 2001. Water temperature was 62 degrees F. The ladder was closed April 10, 2002.

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Shutters on units 1&2 were raised on September 21, Water temperature at the Nimbus Fish Hatchery on November 13, 2002 was 62 degrees F.

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Edible salmon carcasses were given to the American Canadian Fisheries company to be processed, filleted, frozen and sent back to the California Emergency Foodlink in Sacramento California to be distributed to nonprofit organizations. All inedible carcasses went to a local rendering plant. The total dispensed was 137,900 lbs edible and 11,000 lbs inedible.

#### Public Relations

An estimated 1,163,760 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 181,944 visitors.

### CHINOOK SALMON MAINTENANCE PROGRAM

#### Chinook Salmon Counts

The fish ladder was opened November 13, 2001 and the first spawning took place on November 13, 2001. A total of 9,791 salmon entered the holding pond this season, including 6,569 males, 3,222 females and 1,836 grilse. Grilse were fish 60 cm (23.6 inches) fork length or smaller (Appendix Table 1). A total of 4,552 carcasses were removed from the weir: 862 males, 1,099 females and 2,591 grilse.

#### Sorting and Spawning

Of the females counted, 2,287 were spawned, 935 died in the ponds. The spawning season, which began November 13, 2001 and ended December 26, 2001 produced a total of 8,502,971 eggs, for an average of 3,718 eggs per female. Fertility, determined by the difference between green eggs taken and the total eggs eyed, ranged from 51% to 99%, with an average of 88%.

#### 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 **and were not used in the spawning population.** (see Appendix Table 2 for tag recovery results).

#### Chinook Salmon Planting

##### 2000 Brood Year

There were not any 2000 **BY** Chinook salmon on hand July 1, 2001

##### 2001 Brood Year

We released 576,000 advanced fingerlings and 1,909,232 fingerlings (Table 2). A total of 719,991 Chinook fingerling were released with coded-wire tags into S.F. Bay. We did not transfer any eggs or fingerlings to Mokelumne River Hatchery.

Table 2. Planting Data for 2001 Brood Year Chinook Salmon

Month	Release Site	Fingerlings	Advanced Fingerlings	Average size/lb	Weight (lb)
<u>2000 BY</u>	0	0	0	0	0
<u>2001 BY</u>					
May	Santa Cruz	0	0	0	0
	Monterrey	0	0	0	0
	<b>Wickland Net Pen.</b>	0	<b>0</b>	0	<b>0</b>
June	Santa Cruz	60,016	0	88	682
	Monterrey	60,016	<b>0</b>	88	682
	Tiburon	50,400	0	63	800
	<b>Wickland Net Pen.</b>	<b>1,738,800</b>	<b>576,000</b>	63	<b>36,800</b>
	<b>Total</b>		1,909,232	576,000	

## WINTER-RUN STEELHEAD MAINTENANCE PROGRAM

### History of the 2002 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 and 69 fish were unmarked and all other fish were adiposid clipped.

Table 3. Counts of Winter-Run Steelhead, Nimbus Salmon and Steelhead Hatchery, 2001-2002.

Date	Spawmed and Released		Pre-spawning Mortality		Released Unspawmed		Total Un *
	Males	Females	Males	Females	Males	Females	
Nov 28	0	0	0	0	5	1	6
Dec 05	0	0	0	0	52	31	83
Dec 12	0	0	0	0	26	18	44
Dec 19	2	2	0	0	42	18	64
Dec 26	14	14	0	0	98	71	197
Jan 02	8	8	0	0	55	42	113
Jan 10	23	23	0	0	50	45	141
Jan 16	6	6	0	0	15	4	31
Jan 23	45	45	0	0	59	33	182
Jan 30	23	23	0	0	23	16	85
Feb 06	7	7	0	0	17	8	39
Feb 13	34	34	0	0	77	36	181
Feb 20	12	12	0	0	32	18	74
Feb 27	1	1	0	0	2	0	4
Mar 06	7	7	0	0	19	6	39
Mar 13	0	0	0	0	17	4	21
Mar 20	7	7	0	0	17	3	34
Mar 27	1	1	0	0	8	1	11
Apr 03	3	2	0	0	5	0	10
Apr 10	0	0	0	0	2	2	4
Total	194	193	0	0	621	355	1,363

#### Spawning Data 2002 Brood Year

The 190 females spawned produced 1,168,244 eggs, for an average of 6,148 eggs per female. Survival of green eggs to eyed eggs ranged from 29% to 99%, with an average of 81%.

### Winter-run Steelhead Planted

#### 2001 Brood Year

Table 4. Planting and Transfer Data, 2001 and 2002 Brood Year Winter-run Steelhead, Nimbus Salmon and Steelhead Hatchery.

Nimbus Steelhead <u>Planted &amp; Transferred</u>					
Month	Release Site	Number of Fingerlings	Number of Yearlings	Average Size/lb	Weight (lb)
Jan	Tracy Fish Facility	0	1,545	3.1	484
Jan	Garcia Bend	0	190,650	3.1	60,508
Feb	Garcia Bend	0	89,510	3.1	28,592

#### 2002 Brood Year

No fingerlings were released into the American River at the foot of the ladder; nor were there any fingerlings transferred to Mokelumne River Hatchery. On June 30, 2002, approximately 505,000 2002 BY American River steelhead fingerlings were on hand. Approximately 430,000 of these will be released as yearlings in January and February of 2003. There were not any eyed eggs transferred to Mokelumne River Hatchery, and all of BY 2002 Steelhead were adiposposed fin clipped before planting.

### Steelhead Disease Information

#### 2002 Brood Year

Minor outbreaks of Columnaris, Ich and Costia were controlled using 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, 2001-2002.

Week	Year	Chinook Salmon		Steelhead Trout		Half-pounders
		Adults	Grilse	Males	Females	
Nov 11- 17	2001	2,035	729	0	0	0
Nov 18-24	2001	1661	377	0	0	0
Nov 25-Dec1	2001	2393	416	5	1	0
Dec 02-08	2001	2663	340	52	31	0
Dec 09-15	2001	683	69	26	18	0
Dec 16-22	2001	253	25	44	20	0
Dec 23-29	2001	103	3	112	85	10
Dec 30-Jan5	2002	0	0	63	50	19
Jan 07-13	2002	0	0	73	68	14
Jan 14 - 20	2002	0	0	21	10	5
Jan 21- 27	2002	0	0	104	78	10
Jan 28-Feb2	2002	0	0	46	39	5
Feb 03-09	2002	0	0	24	15	10
Feb 10-16	2002	0	0	111	70	15
Feb 17-22	2002	0	0	45	29	10
Feb 18-24	2002	0	0	39	38	10
Feb25-Mar	2002	0	0	3	1	0
Mar 04-10	2002	0	0	26	13	8
Mar 11-17	2002	0	0	17	4	0
Mar 18-24	2002	0	0	24	10	0
Mar 25-31	2002	0	0	9	2	0
Apr 01-06	2002	0	0	8	2	0
Apr 07-13	2002	0	0	2	2	0
Total		9,791	1959	815	548	106

Half Pounders = < 22 in.

Appendix Table 2.

Chinook Salmon Coded-Wire Tag Recoveries.  
Preliminary Data, Nimbus Hatchery, 2001-02

CWT	Number Recovered	Brood Year	Hatchery of Origin	Release Site
0501020707	2	1998	Feather	West Sacramento
052308	2	1998	Coleman	Georgiana Slough
052312	7	1998	Coleman	Georgiana Slough
052312	4	1998	Coleman	Georgiana Slough
052320	1	1998	Coleman	Ryde
052321	10	1998	Coleman	Ryde
052322	6	1998	Colman	Port Chicago
052325	1	1998	Feather	West Sacramento
052414	1	1998	Feather	Ryde
052415	1	1998	Feather	Ryde
052416	1	1998	Feather	West Sacramento
052417	3	1998	Feather	West Sacramento
055130	5	1999	Coleman	Georgiana Slough
055131	3	1999	Coleman	Georgiana Slough
055132	2	1999	Coleman	Ryde
055133	12	1999	Coleman	Ryde
055134	9	1999	Coleman	Port Chicago
055137	1	2000	Coleman	Walnut Grove
0601060902	1	1998	Feather	Crockett
0601060904	1	1998	Feather	Crockett
0601061001	3	1999	Merced	Jersey Point
0601061002	1	1999	Merced	Jersey Point
0601061009	1	1999	Feather	Georgianna Slough
0601110815	1	1998	Merced	Jersey Point
0601130201	1	1997	Mokelumne	Woodbridge
060215	9	1998	Mokelumne	Crockett
060234	1	1997	Mokelumne	Jersey Point
060235	1	1997	Mokelumne	Jersey Point
060236	1	1997	Mokelumne	Wood Bridge
060238	2	1997	Mokelumne	New Hope Landing
060240	4	1997	Mokelumne	Carquinez Strait
060241	3	1997	Mokelumne	Carquinez Strait
060247	14	1998	Mokelumne	Sherman Inland
060248	18	1998	Mokelumne	Sherman Inland
060249	2	1999	Mokelumne	New Hope Landing
060250	6	1999	Mokelumne	Wickland Net Pen
060251	5	1999	Mokelumne	Wickland Net Pen
060252	2	1999	Mokelumne	New Hope Landing
060253	10	1999	Mokelumne	Sherman Inland

060254	14	1999	Mokelumne	Sherman Inland
060255	10	1999	Mokelumne	New Hope Landing
060256	10	1999	Mokelumne	New Hope Landing
060257	14	1999	Mokelumne	New Hope Landing
062632	1	1998	Feather	Crockett
062633	1	1998	Feather	Crockett
062638	1	1998	Feather	Crockett
062642	1	1998	Merced	Mossdale
062646	1	1998	Merced	Dos Reis Rd
062647	4	1998	Merced	Dos Reis Rd
062658	1	1999	Feather	Wickland Net Pen
062662	4	1999	Mokelumne	Mokelumne River
062663	6	1999	Mokelumne	Mokelumne River
062939	25	1998	Nimbus	Tiburon Net Pens
064403	3	1999	Merced	Jersey Point
064404	4	1999	Merced	Jersey Point
064533	1	1998	Merced	Grayson Ranch
064560	1	1999	Merced	Old Fisherman Club
064604	1	1998	Merced	Old Fisherman Club
064606	1	1998	Merced	Mossdale
064916	3	1998	Mokelumne	New Hope Landing
064917	8	1998	Mokelumne	New Hope Landing
064918	2	1998	Mokelumne	New Hope Landing
064919	5	1998	Mokelumne	New Hope Landing
064920	6	1998	Mokelumne	Sherman Inland
064921	8	1998	Mokelumne	Sherman Inland
064922	12	1998	Mokelumne	Sherman Inland
064923	14	1998	Mokelumne	Sherman Inland
Total	347			

a/Feathe River Hatchery stock.

b/No CWT.

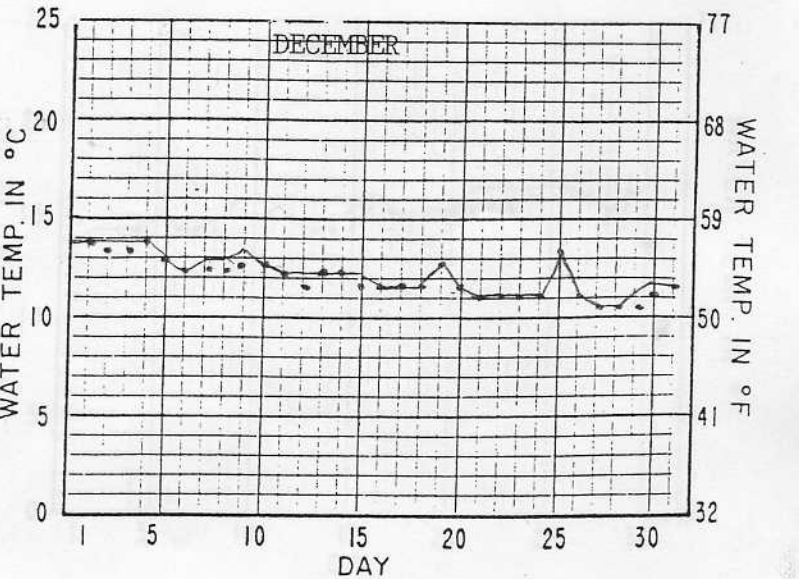
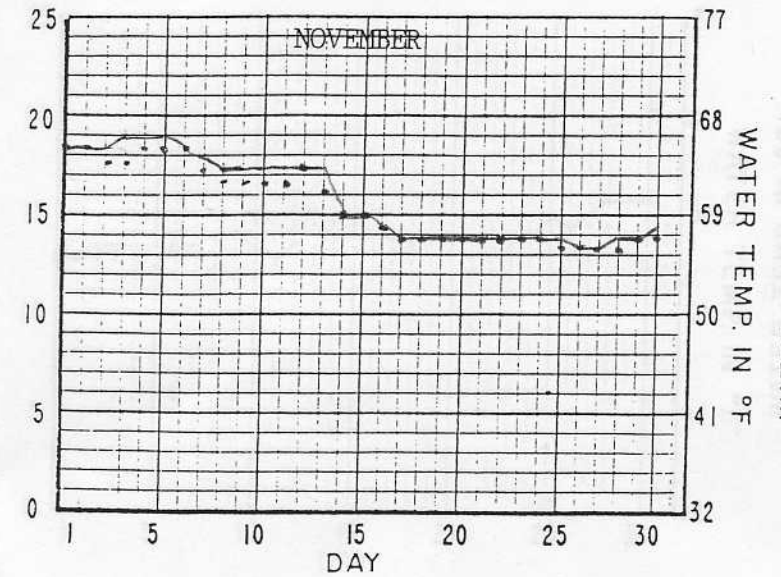
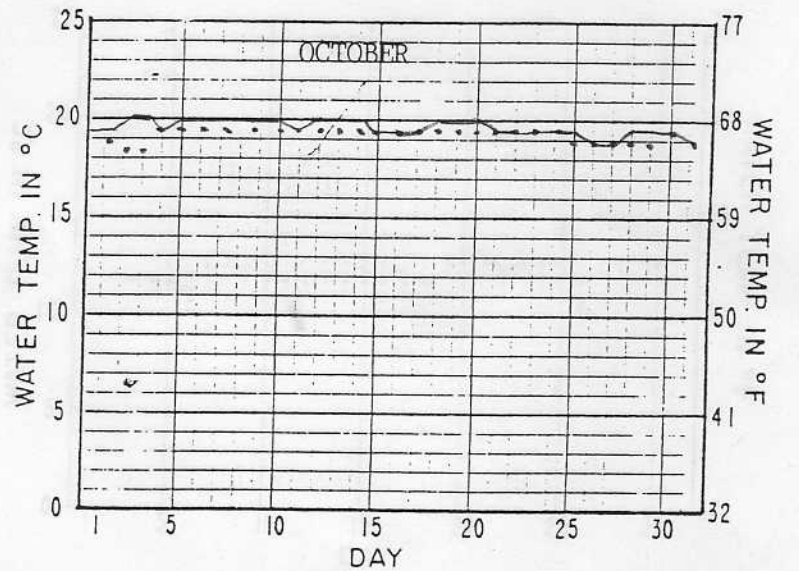
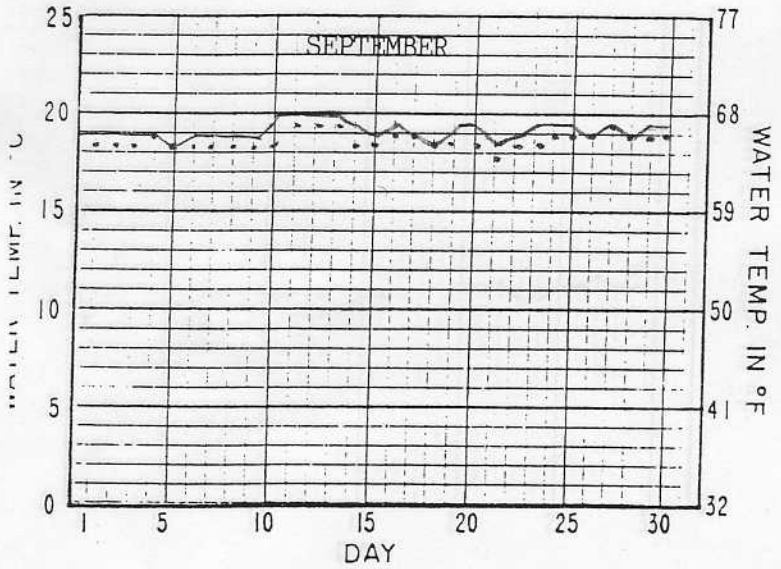
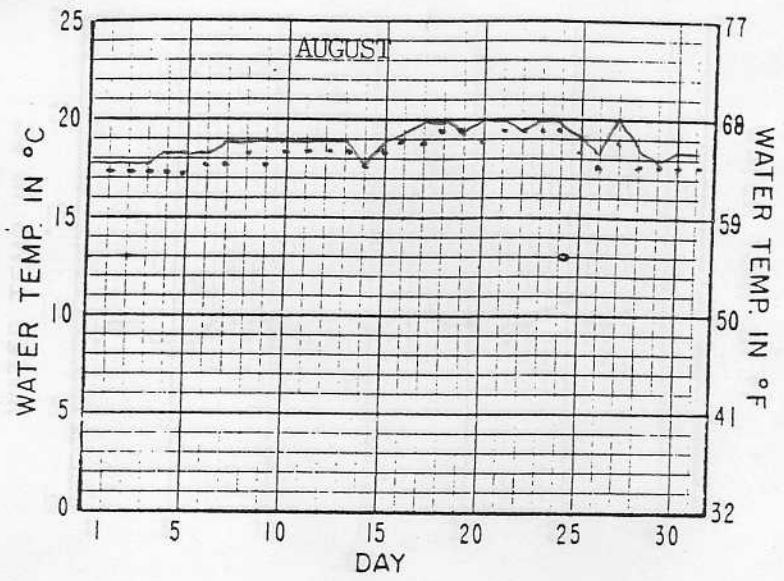
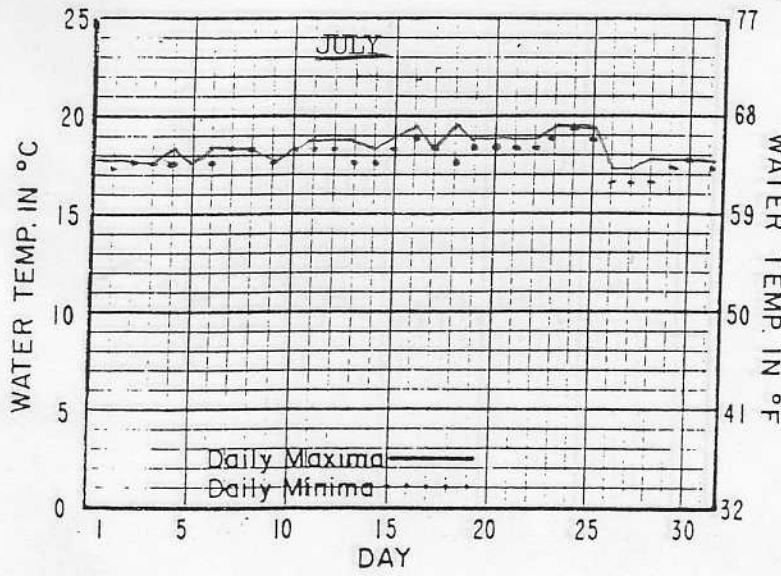
\* No tag

<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	2,997	2,332	321	649
1998-99	4,980	4,961	1,847	1,480
1999-2000	3,923	2,280	3,557	1,656
2000-2001	6,211	4,108	841	2,894
2001-2002	6,569	3,222	1,959	1,469

\* Included in adult male

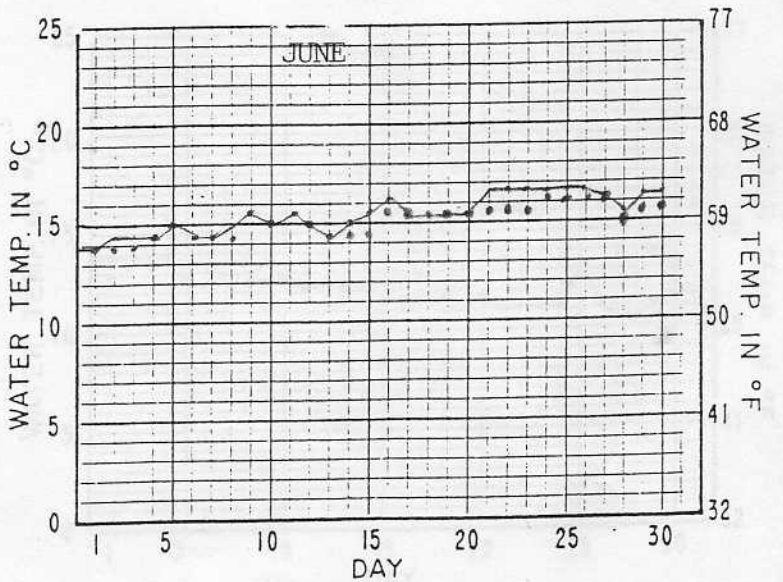
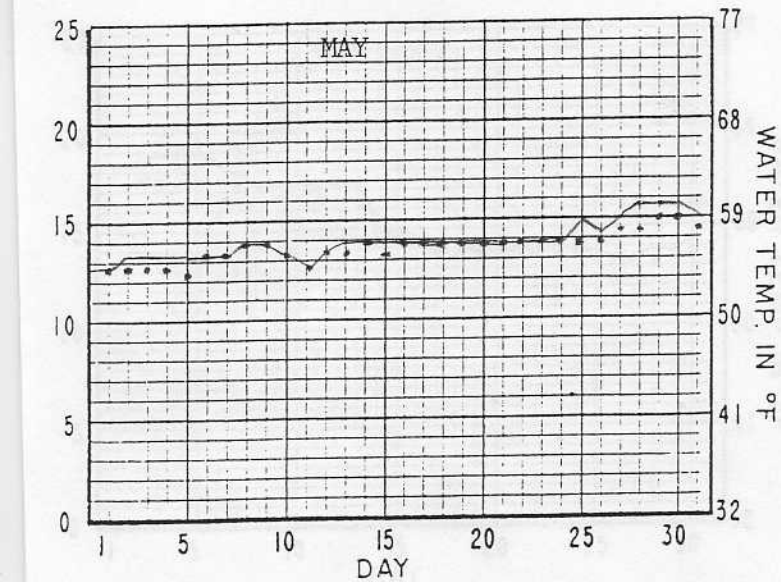
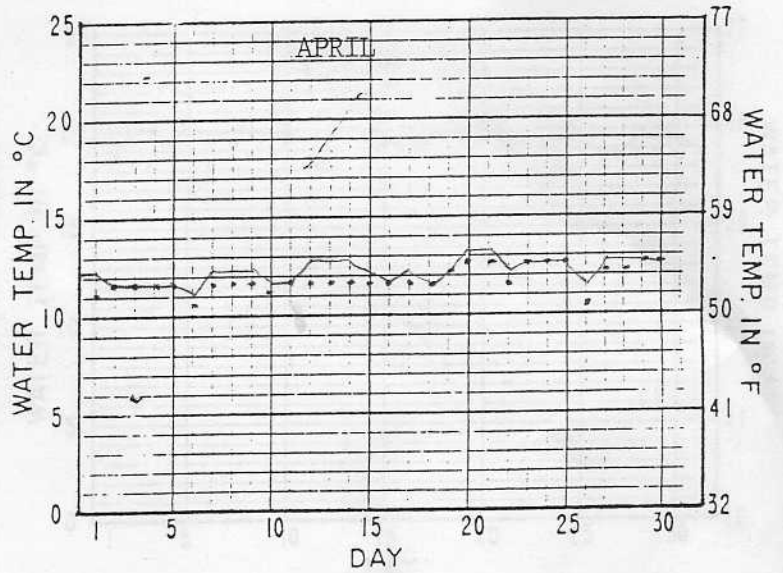
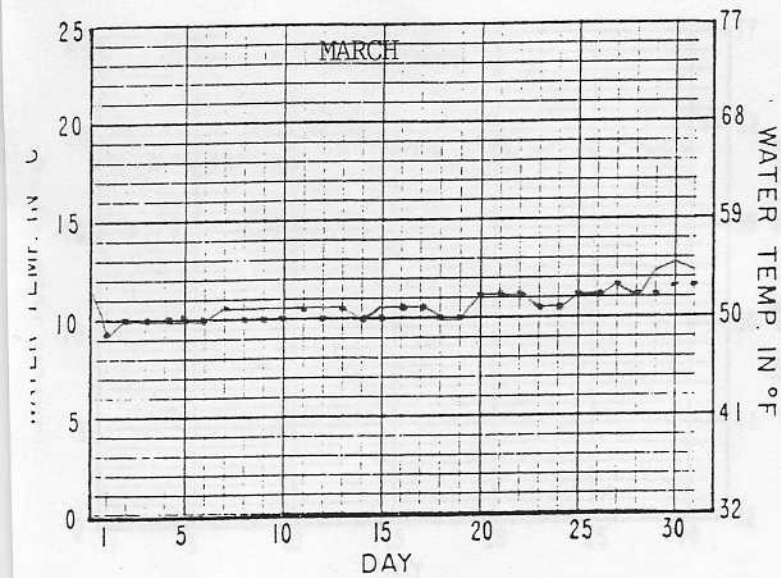
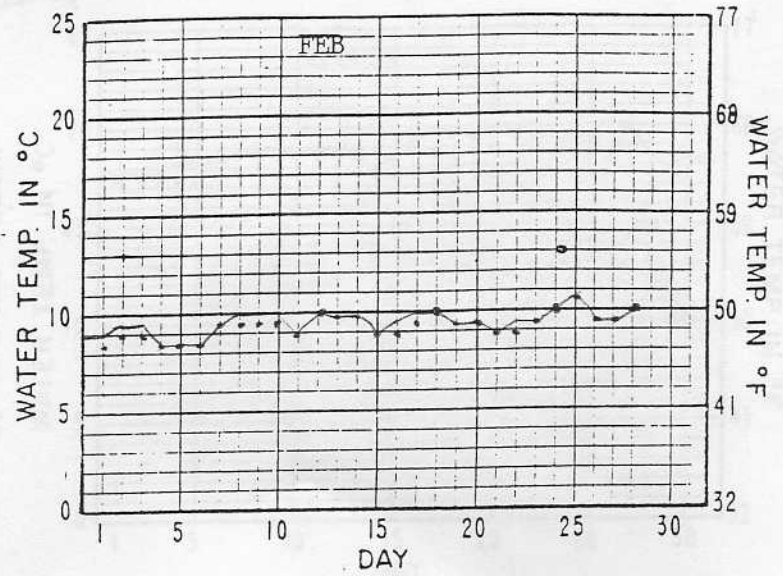
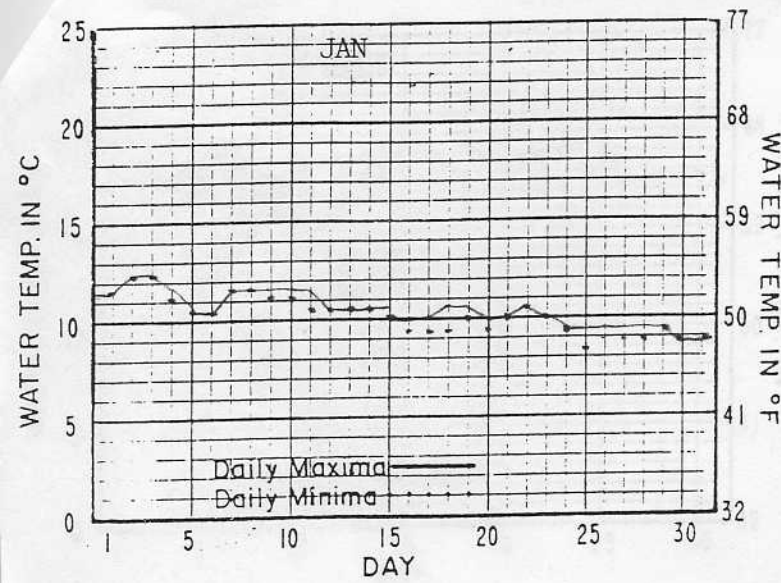
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### CHINOOK SALMON MAINTENANCE PROGRAM

#### Chinook Salmon Counts

The fish ladder was opened November 13, 2001 and the first spawning took place on November 13, 2001. A total of 9,791 salmon entered the holding pond this season, including 6,569 males, 3,222 females and 1,836 grilse. Grilse were fish 60 cm (23.6 inches) fork length or smaller (Appendix Table 1). A total of 4,552 carcasses were removed from the weir: 862 males, 1,099 females and 2,591 grilse.

#### Sorting and Spawning

Of the females counted, 2,287 were spawned, 935 died in the ponds. The spawning season, which began November 13, 2001 and ended December 26, 2001 produced a total of 8,502,971 eggs, for an average of 3,718 eggs per female. Fertility, determined by the difference between green eggs taken and the total eggs eyed, ranged from 51% to 99%, with an average of 88%.

#### 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 **and were not used in the spawning population.** (see Appendix Table 2 for tag recovery results).

#### Chinook Salmon Planting

##### 2000 Brood Year

There were not any 2000 **BY** Chinook salmon on hand July 1, 2001

##### 2001 Brood Year

We released 576,000 advanced fingerlings and 1,909,232 fingerlings (Table 2). A total of 719,991 Chinook fingerling were released with coded-wire tags into S.F. Bay. We did not transfer any eggs or fingerlings to Mokelumne River Hatchery.

Table 2. Planting Data for 2001 Brood Year Chinook Salmon

Month	Release Site	Fingerlings	Advanced Fingerlings	Average size/lb	Weight (lb)
<u>2000 BY</u>	0	0	0	0	0
<u>2001 BY</u>					
May	Santa Cruz	0	0	0	0
	Monterrey	0	0	0	0
	<b>Wickland Net Pen.</b>	0	<b>0</b>	0	<b>0</b>
June	Santa Cruz	60,016	0	88	682
	Monterrey	60,016	<b>0</b>	88	682
	Tiburon	50,400	0	63	800
	<b>Wickland Net Pen.</b>	<b>1,738,800</b>	<b>576,000</b>	63	<b>36,800</b>
	<b>Total</b>		1,909,232	576,000	

## WINTER-RUN STEELHEAD MAINTENANCE PROGRAM

### History of the 2002 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 and 69 fish were unmarked and all other fish were adiposid clipped.

Table 3. Counts of Winter-Run Steelhead, Nimbus Salmon and Steelhead Hatchery, 2001-2002.

Date	Spawmed and Released		Pre-spawning Mortality		Released Unspawmed		Total Un *
	Males	Females	Males	Females	Males	Females	
Nov 28	0	0	0	0	5	1	6
Dec 05	0	0	0	0	52	31	83
Dec 12	0	0	0	0	26	18	44
Dec 19	2	2	0	0	42	18	64
Dec 26	14	14	0	0	98	71	197
Jan 02	8	8	0	0	55	42	113
Jan 10	23	23	0	0	50	45	141
Jan 16	6	6	0	0	15	4	31
Jan 23	45	45	0	0	59	33	182
Jan 30	23	23	0	0	23	16	85
Feb 06	7	7	0	0	17	8	39
Feb 13	34	34	0	0	77	36	181
Feb 20	12	12	0	0	32	18	74
Feb 27	1	1	0	0	2	0	4
Mar 06	7	7	0	0	19	6	39
Mar 13	0	0	0	0	17	4	21
Mar 20	7	7	0	0	17	3	34
Mar 27	1	1	0	0	8	1	11
Apr 03	3	2	0	0	5	0	10
Apr 10	0	0	0	0	2	2	4
Total	194	193	0	0	621	355	1,363

#### Spawning Data 2002 Brood Year

The 190 females spawned produced 1,168,244 eggs, for an average of 6,148 eggs per female. Survival of green eggs to eyed eggs ranged from 29% to 99%, with an average of 81%.

### Winter-run Steelhead Planted

#### 2001 Brood Year

Table 4. Planting and Transfer Data, 2001 and 2002 Brood Year Winter-run Steelhead, Nimbus Salmon and Steelhead Hatchery.

Nimbus Steelhead <u>Planted &amp; Transferred</u>					
Month	Release Site	Number of Fingerlings	Number of Yearlings	Average Size/lb	Weight (lb)
Jan	Tracy Fish Facility	0	1,545	3.1	484
Jan	Garcia Bend	0	190,650	3.1	60,508
Feb	Garcia Bend	0	89,510	3.1	28,592

#### 2002 Brood Year

No fingerlings were released into the American River at the foot of the ladder; nor were there any fingerlings transferred to Mokelumne River Hatchery. On June 30, 2002, approximately 505,000 2002 BY American River steelhead fingerlings were on hand. Approximately 430,000 of these will be released as yearlings in January and February of 2003. There were not any eyed eggs transferred to Mokelumne River Hatchery, and all of BY 2002 Steelhead were adiposid fin clipped before planting.

### Steelhead Disease Information

#### 2002 Brood Year

Minor outbreaks of Columnaris, Ich and Costia were controlled using 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, 2001-2002.

Week	Year	Chinook Salmon		Steelhead Trout		Half-pounders
		Adults	Grilse	Males	Females	
Nov 11- 17	2001	2,035	729	0	0	0
Nov 18-24	2001	1661	377	0	0	0
Nov 25-Dec1	2001	2393	416	5	1	0
Dec 02-08	2001	2663	340	52	31	0
Dec 09-15	2001	683	69	26	18	0
Dec 16-22	2001	253	25	44	20	0
Dec 23-29	2001	103	3	112	85	10
Dec 30-Jan5	2002	0	0	63	50	19
Jan 07-13	2002	0	0	73	68	14
Jan 14 - 20	2002	0	0	21	10	5
Jan 21- 27	2002	0	0	104	78	10
Jan 28-Feb2	2002	0	0	46	39	5
Feb 03-09	2002	0	0	24	15	10
Feb 10-16	2002	0	0	111	70	15
Feb 17-22	2002	0	0	45	29	10
Feb 18-24	2002	0	0	39	38	10
Feb25-Mar	2002	0	0	3	1	0
Mar 04-10	2002	0	0	26	13	8
Mar 11-17	2002	0	0	17	4	0
Mar 18-24	2002	0	0	24	10	0
Mar 25-31	2002	0	0	9	2	0
Apr 01-06	2002	0	0	8	2	0
Apr 07-13	2002	0	0	2	2	0
Total		9,791	1959	815	548	106

Half Pounders = < 22 in.

Appendix Table 2.

Chinook Salmon Coded-Wire Tag Recoveries.  
Preliminary Data, Nimbus Hatchery, 2001-02

CWT	Number Recovered	Brood Year	Hatchery of Origin	Release Site
0501020707	2	1998	Feather	West Sacramento
052308	2	1998	Coleman	Georgiana Slough
052312	7	1998	Coleman	Georgiana Slough
052312	4	1998	Coleman	Georgiana Slough
052320	1	1998	Coleman	Ryde
052321	10	1998	Coleman	Ryde
052322	6	1998	Colman	Port Chicago
052325	1	1998	Feather	West Sacramento
052414	1	1998	Feather	Ryde
052415	1	1998	Feather	Ryde
052416	1	1998	Feather	West Sacramento
052417	3	1998	Feather	West Sacramento
055130	5	1999	Coleman	Georgiana Slough
055131	3	1999	Coleman	Georgiana Slough
055132	2	1999	Coleman	Ryde
055133	12	1999	Coleman	Ryde
055134	9	1999	Coleman	Port Chicago
055137	1	2000	Coleman	Walnut Grove
0601060902	1	1998	Feather	Crockett
0601060904	1	1998	Feather	Crockett
0601061001	3	1999	Merced	Jersey Point
0601061002	1	1999	Merced	Jersey Point
0601061009	1	1999	Feather	Georgianna Slough
0601110815	1	1998	Merced	Jersey Point
0601130201	1	1997	Mokelumne	Woodbridge
060215	9	1998	Mokelumne	Crockett
060234	1	1997	Mokelumne	Jersey Point
060235	1	1997	Mokelumne	Jersey Point
060236	1	1997	Mokelumne	Wood Bridge
060238	2	1997	Mokelumne	New Hope Landing
060240	4	1997	Mokelumne	Carquinez Strait
060241	3	1997	Mokelumne	Carquinez Strait
060247	14	1998	Mokelumne	Sherman Inland
060248	18	1998	Mokelumne	Sherman Inland
060249	2	1999	Mokelumne	New Hope Landing
060250	6	1999	Mokelumne	Wickland Net Pen
060251	5	1999	Mokelumne	Wickland Net Pen
060252	2	1999	Mokelumne	New Hope Landing
060253	10	1999	Mokelumne	Sherman Inland

060254	14	1999	Mokelumne	Sherman Inland
060255	10	1999	Mokelumne	New Hope Landing
060256	10	1999	Mokelumne	New Hope Landing
060257	14	1999	Mokelumne	New Hope Landing
062632	1	1998	Feather	Crockett
062633	1	1998	Feather	Crockett
062638	1	1998	Feather	Crockett
062642	1	1998	Merced	Mossdale
062646	1	1998	Merced	Dos Reis Rd
062647	4	1998	Merced	Dos Reis Rd
062658	1	1999	Feather	Wickland Net Pen
062662	4	1999	Mokelumne	Mokelumne River
062663	6	1999	Mokelumne	Mokelumne River
062939	25	1998	Nimbus	Tiburon Net Pens
064403	3	1999	Merced	Jersey Point
064404	4	1999	Merced	Jersey Point
064533	1	1998	Merced	Grayson Ranch
064560	1	1999	Merced	Old Fisherman Club
064604	1	1998	Merced	Old Fisherman Club
064606	1	1998	Merced	Mossdale
064916	3	1998	Mokelumne	New Hope Landing
064917	8	1998	Mokelumne	New Hope Landing
064918	2	1998	Mokelumne	New Hope Landing
064919	5	1998	Mokelumne	New Hope Landing
064920	6	1998	Mokelumne	Sherman Inland
064921	8	1998	Mokelumne	Sherman Inland
064922	12	1998	Mokelumne	Sherman Inland
064923	14	1998	Mokelumne	Sherman Inland
Total	347			

a/Feathe River Hatchery stock.

b/No CWT.

\* No tag

<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	2,997	2,332	321	649
1998-99	4,980	4,961	1,847	1,480
1999-2000	3,923	2,280	3,557	1,656
2000-2001	6,211	4,108	841	2,894
2001-2002	6,569	3,222	1,959	1,469

\* Included in adult male