
**WRAC Survey Form:
Western Region Aquaculture
Situation and Outlook Report through 1999**

Please fill out the appropriate pages of the survey for your State. If there are more species types that your State produces for each fish category, please use additional sheets of the form as needed. Please fill in any of the N/A (data not available) in the Table provided at the top of each page. Additional information on the aquaculture industry is requested in the Comments Section at the bottom of each page.

The groupings are as follows:

Finfish

Salmon (Pen-Farmed/Land Based)

Trout

Catfish

Tilapia

Hybrid Striped Bass

Other Foodfish

Shellfish

Oysters

Mussels

Manila Clams

Other Shellfish

Aquatic Plants

Non-Edible Fish

Name: _____

SALMON (Pen-Farmed/Land-Based Salmon)

This section includes pen-farmed or land-based culture of salmon. This does not include release of juvenile salmon to the wild. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est)
Alaska	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0
California	0	0	0	0	0	0	0
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Oregon	0	0	0	195	0	0	0
Utah	0	0	0	0	0	0	0
Washington	9,500	8,927	11,184	9,697	12,114	12,781	14,060
Wyoming	0	0	0	0	0	0	0
TOTAL	9,500	8,927	11,184	9,892	12,114	12,781	14,060

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____	Market Product (1999):	
(Whole/Live)		Whole/Live	_____ %
		Gutted	_____ %
		Fillet	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____	Market Product (1999):	
(Whole/Live)		Whole/Live	_____ %
		Gutted	_____ %
		Fillet	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____	Market Product (1999):	
(Whole/Live)		Whole/Live	_____ %
		Gutted	_____ %

Fillet	%
Other	%

EGG/FRY/JUVENILE PRODUCTION AND SALES:

This section is for production and commercial sale of eggs, fry, fingerlings, juveniles or stockers. This does not include State production for fish stocking or for company in-house use. Please note any State or in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species) _____			
Eggs			
Production (in 1000)			
Value (in \$1000)	\$	\$	\$
Price per 1000 (1999):	\$		
Fry/Fingerling			
Production (in 1000)			
Value (in \$1000)	\$	\$	\$
Price per 1000 (1999):	\$		
Juveniles			
Production (in 1000)			
Value (in \$1000)			
Price per 1000 (1999):	\$		
Stocker			
Production (in 1000)			
Value (in \$1000)	\$	\$	\$
Price per 1000 (1999):	\$		

COMMENTS: *Please comment on the status of salmonid aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

TROUT

This section includes the production of trout and steelhead. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est)
Alaska	0	0	0	0	0	0	0
Arizona	230	260	290	310	340	310	350
California	2,685	2,800	2,470	2,804	2,938	2,966	3,095
Colorado	950	952	950	976	543	538	580
Idaho	41,500	40,000	40,000	43,131	40,000	42,000	42,000
Montana	150	160	160	160	160	160	160
Nevada	5	5	<1	<1	N/A	N/A	N/A
New Mexico	130	130	641	646	600	600	600
Oregon	750	750	152	173	110	170	150
Utah	2,002	2,204	1,315	1,884	N/A	1,154	1,300
Washington	580	445	408	580	811	1,512	2,000
Wyoming	<5	<5	<5	<5	<5	<5	<5
TOTAL	48,987	47,711	46,392	50,670	45,507	49,415	50,240

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999):	
(Whole/Live)		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999):	
(Whole/Live)		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999):	
(Whole/Live)		Whole/Live	%
		Gutted	%

CATFISH

This section includes the production of catfish. Please use additional sheets as necessary

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	0
Arizona	390	360	380	400	430	450	500
California	4,456	4,602	5,503	6,003	6,002	6,402	6,522
Colorado	0	0	0	0	0	0	0
Idaho	600	573	571	573	580	615	700
Montana	0	0	0	0	0	0	0
Nevada	100	100	1	1	5	5	N/A
New Mexico	<1	<1	<1	<1	0	0	0
Oregon	0	0	0	<1	0	0	0
Utah	0	0	0	0	0	0	0
Washington	0	2	3	3	0	<1	N/A
Wyoming	0	0	0	0	0	0	0
TOTAL	5,547	5,638	6,459	6,982	7,017	7,473	7,722

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____	Market Product (1999):	
(Whole/Live)		Whole/Live	_____ %
		Gutted	_____ %
		Fillet	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____	Market Product (1999):	
(Whole/Live)		Whole/Live	_____ %
		Gutted	_____ %
		Fillet	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____	Market Product (1999):	
(Whole/Live)		Whole/Live	_____ %
		Gutted	_____ %
		Fillet	_____ %

Other

%**EGG/FRY/JUVENILE PRODUCTION AND SALES:**

This section is for production and commercial sale of eggs, fry, fingerlings, juveniles or stockers. This does not include State production for fish stocking or for company in-house use. Please note any State or in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	<hr/>	<hr/>	<hr/>
TOTAL VALUE (in \$1000)	<hr/> \$	<hr/> \$	<hr/> \$
Type (Species) <hr/>			
Eggs			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$	<hr/> \$	<hr/> \$
Price per 1000 (1999): \$	<hr/>		
Fry/Fingerling			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$	<hr/> \$	<hr/> \$
Price per 1000 (1999): \$	<hr/>		
Juveniles			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/>	<hr/>	<hr/>
Price per 1000 (1999): \$	<hr/>		
Stocker			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$	<hr/> \$	<hr/> \$
Price per 1000 (1999): \$	<hr/>		

COMMENTS: *Please comment on the status of catfish aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

TILAPIA

This section includes the production of tilapia. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	0
Arizona	400	400	400	420	415	450	550
California	3,699	4,280	3,650	3,850	3,950	4,500	5,000
Colorado	38	58	100	100	N/A	N/A	N/A
Idaho	1,000	924	800	1,008	1,100	1,100	1,400
Montana	0	0	0	0	0	0	5
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	<1	0	0	N/A
Oregon	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
TOTAL	5,137	5,662	4,950	5,379	5,465	6,050	6,955

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999):	
(Whole/Live)		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999):	
(Whole/Live)		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999):	
(Whole/Live)		Whole/Live	%
		Gutted	%
		Fillet	%

Other

%**EGG/FRY/JUVENILE PRODUCTION AND SALES:**

This section is for production and commercial sale of eggs, fry, fingerlings, juveniles or stockers. This does not include State production for fish stocking or for company in-house use. Please note any State or in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	<hr/>	<hr/>	<hr/>
TOTAL VALUE (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Type (Species) <hr/>			
Eggs			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>
Fry/Fingerling			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>
Juveniles			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/>	<hr/>	<hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>
Stocker			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>

COMMENTS: *Please comment on the status of tilapia aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

HYBRID STIPED BASS

This section includes the production of hybrid striped bass. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	0
Arizona	10	10	20	40	50	50	50
California	1,500	2,680	2,760	3,000	3,325	3,350	3,700
Colorado	10	15	15	20	100	150	250
Idaho	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
TOTAL	1,520	2,705	2,795	3,060	3,475	3,550	4,000

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%

EGG/FRY/JUVENILE PRODUCTION AND SALES:

This section is for production and commercial sale of eggs, fry, fingerlings, juveniles or stockers. This does not include State production for fish stocking or for company in-house use. Please note any State or in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Eggs			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			
Fry/Fingerling			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			
Juveniles			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	_____	_____	_____
Price per 1000 (1999): \$ _____			
Stocker			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			

COMMENTS: *Please comment on the status of hybrid striped bass aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

OTHER FOODFISH

This section includes the production of other foodfish which includes sturgeon, largemouth bass, and other types of foodfish produced through aquaculture. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	0
Arizona	200	200	200	200	190	150	170
California	721	502	1,100	1,448	1,905	2,875	4,800
Colorado	0	0	0	0	0	0	0
Idaho	20	38	38	62	100	150	200
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0
Utah	0	0	11	11	0	0	0
Washington	0	<1	<1	<1	0	27	15
Wyoming	0	0	0	0	0	0	0
TOTAL	941	741	1,350	1,722	2,195	3,202	5,185

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Gutted	%
		Fillet	%
		Other	%
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Gutted	%
		Fillet	%

Other

%**EGG/FRY/JUVENILE PRODUCTION AND SALES:**

This section is for production and commercial sale of eggs, fry, fingerlings, juveniles or stockers. This does not include State production for fish stocking or for company in-house use. Please note any State or in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	<hr/>	<hr/>	<hr/>
TOTAL VALUE (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Type (Species) _____			
Eggs			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>
Fry/Fingerling			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>
Juveniles			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/>	<hr/>	<hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>
Stocker			
Production (in 1000)	<hr/>	<hr/>	<hr/>
Value (in \$1000)	<hr/> \$ <hr/>	<hr/> \$ <hr/>	<hr/> \$ <hr/>
Price per 1000 (1999): \$	<hr/>	<hr/>	<hr/>

COMMENTS: *Please comment on the status of other foodfish aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

OYSTERS

This section includes production of oysters. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	133	175	217	250	251	249	500
Arizona	0	0	0	0	0	0	0
California	9,653	10,535	10,413	9,078	7,952	7,812	10,500
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Oregon	2,450	4,900	4,036	3,178	2,065	2,187	5,000
Utah	0	0	0	0	0	0	0
Washington	47,680	62,550	51,751	55,601	50,840	37,204	60,360
Wyoming	0	0	0	0	0	0	0
TOTAL	59,916	78,160	66,417	68,107	61,108	47,452	76,360

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish. Please report the data for this section in live (whole) weight. A conversion of seven times the meat weight is used to calculate live weight.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Shucked	%
		Other	%
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Shucked	%
		Other	%
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Shucked	%
		Other	%

LARVAE AND CULTCH PRODUCTION AND SALES:

This section is for production and commercial sale of larvae and cultch. This does not include in-house production for company use. Please note any in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Larvae			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			
Cultch			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			
Singles			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	_____	_____	_____
Price per 1000 (1999): \$ _____			
Others			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			

COMMENTS: *Please comment on the status of oyster aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

MUSSELS

This section includes production of mussels. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	14	4	3	4	7	2	10
Arizona	0	0	0	0	0	0	0
California	194	306	422	459	458	472	500
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Washington	800	703	1,106	995	1,634	1,364	2,000
Wyoming	0	0	0	0	0	0	0
TOTAL	1,008	1,013	1,531	1,458	2,099	1,838	2,510

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish. Please report the data for this section in live (whole) weight.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$ 	\$ 	\$
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$ 	\$ 	\$
Price per pound (1999) (Whole/Live)	\$ 	Market Product (1999):	
		Whole/Live	_____ %
		Shucked	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$ 	\$ 	\$
Price per pound (1999) (Whole/Live)	\$ 	Market Product (1999):	
		Whole/Live	_____ %
		Shucked	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$ 	\$ 	\$
Price per pound (1999) (Whole/Live)	\$ 	Market Product (1999):	
		Whole/Live	_____ %
		Shucked	_____ %
		Other	_____ %

LARVAE AND SEED PRODUCTION AND SALES:

This section is for production and commercial sale of larvae and seed. This does not include in-house production for company use. Please note any in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Larvae			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			
Seed			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	_____	_____	_____
Price per 1000 (1999): \$ _____			
Others			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			

COMMENTS: *Please comment on the status of mussel aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

MANILA CLAMS

This section includes production of Manila clams. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0
California	2	5	3	6	8	29	50
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Washington	4,251	6,365	4,547	5,234	5,352	5,209	7,000
Wyoming	0	0	0	0	0	0	0
TOTAL	4,253	6,370	4,550	5,240	5,360	5,238	7,050

STATE

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish. Please report the data for this section in live (whole) weight.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$ 	\$ 	\$
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$ 	\$ 	\$
Price per pound (1999) (Whole/Live)	\$ 	Market Product (1999):	
		Whole/Live	_____ %
		Shucked	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$ 	\$ 	\$
Price per pound (1999) (Whole/Live)	\$ 	Market Product (1999):	
		Whole/Live	_____ %
		Shucked	_____ %
		Other	_____ %
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$ 	\$ 	\$
Price per pound (1999) (Whole/Live)	\$ 	Market Product (1999):	
		Whole/Live	_____ %
		Shucked	_____ %
		Other	_____ %

LARVAE AND SEED PRODUCTION AND SALES:

This section is for production and commercial sale of larvae and seed. This does not include in-house production for company use. Please note any in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Larvae			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			
Seed			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	_____	_____	_____
Price per 1000 (1999): \$ _____			
Others			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			

COMMENTS: *Please comment on the status of manila clam aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

OTHER SHELLFISH

Other shellfish includes shrimp, crawfish, clams(excluding manila clams), scallops, abalone and other types of shellfish cultured. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	10
Arizona	<1	<1	<1	<1	<1	6	100
California	151	225	246	248	293	301	401
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	<1	0	0	N/A
New Mexico	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Washington	429	367	341	364	279	211	330
Wyoming	0	0	0	0	0	0	0
TOTAL	581	593	588	614	573	518	842

STATE _____

FOODFISH PRODUCTION

This section is for production and commercial sale of market-sized foodfish. Please report the data for this section in live (whole) weight.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Shucked	%
		Other	%
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Shucked	%
		Other	%
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$	Market Product (1999):	
		Whole/Live	%
		Shucked	%
		Other	%

LARVAE AND SEED PRODUCTION AND SALES:

This section is for production and commercial sale of larvae and seed. This does not include in-house production for company use. Please note any in-house production in the Comments section below.

	1998	1999	2004 (Est.)
TOTAL PRODUCTION (in 1000)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Larvae			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			
Spat			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	_____	_____	_____
Price per 1000 (1999): \$ _____			
Others			
Production (in 1000)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per 1000 (1999): \$ _____			

COMMENTS: *Please comment on the status of other shellfish aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

AQUATIC PLANTS

Aquatic plants refer to cultured edible seaweed and freshwater algae. Please provide the data in wet weight. If no estimate of wet weight for unicellular algae production is available, please provide a general conversion factor. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0
California	400	400	523	829	1,024	1,037	1,050
Colorado	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0
Montana	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0
New Mexico	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0
Washington	0	0	0	0	0	0	0
Wyoming	0	0	0	0	0	0	0
TOTAL	400	400	523	829	1,024	1,037	1,050

STATE

EDIBLE PLANT PRODUCTION

This section is for production and commercial sale of aquatic plants such as nori or unicellular algae. Please report the data for this section in live (whole) weight.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999): Whole/Live _____ % Dried _____ % Other _____ %	
(Whole/Live)			
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999): Whole/Live _____ % Dried _____ % Other _____ %	
(Whole/Live)			
Type (Species) _____			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999)	\$	Market Product (1999): Whole/Live _____ % Dried _____ % Other _____ %	
(Whole/Live)			

STATE

NON-EDIBLE AQUATIC PLANT PRODUCTION

This section is for production and commercial sale of non-edible aquatic plants such as aquarium plants. Please report the data for this section in live (whole) weight.

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)	_____	_____	_____
TOTAL VALUE (in \$1000)	\$ _____	\$ _____	\$ _____
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____		
(Whole/Live)			
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____		
(Whole/Live)			
Type (Species) _____			
Production (in 1000 lbs)	_____	_____	_____
Value (in \$1000)	\$ _____	\$ _____	\$ _____
Price per pound (1999)	\$ _____		
(Whole/Live)			

COMMENTS: *Please comment on the status of aquatic plant aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

NON-EDIBLE FISH

Non-edible fish include tropical fish for the aquarium trade as well as baitfish and other aquatic animals that are cultured for non-consumptive purposes. Please provide the information in live weight. If not available, please provide a general conversion factor. Please use additional sheets as necessary.

	1992	1993	1994	1995	1996	1997	2002 (Est.)
Alaska	0	0	0	0	0	0	0
Arizona	10	10	10	12	12	12	15
California	N/A	423	515	545	877	1,008	1,015
Colorado	0	0	0	0	0	0	0
Idaho	1	1	N/A	N/A	N/A	N/A	N/A
Montana	0	0	0	0	0	0	0
Nevada	<1	<1	<1	<1	<1	<1	<1
New Mexico	<1	<1	<1	<1	0	0	0
Oregon	0	0	<1	<1	0	0	0
Utah	<1	<1	<1	<1	0	0	0
Washington	0	0	0	0	1	1	1
Wyoming	0	0	0	0	0	0	0
TOTAL	14	437	529	561	891	1,022	1,032

STATE

	1998	1999	2004 (Est)
TOTAL PRODUCTION (in 1000 lbs)			
TOTAL VALUE (in \$1000)	\$	\$	\$
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$		
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$		
Type (Species)			
Production (in 1000 lbs)			
Value (in \$1000)	\$	\$	\$
Price per pound (1999) (Whole/Live)	\$		

COMMENTS: *Please comment on the status of non-edible fish aquaculture in your state and the prospects for the future. In addition, please comment on the constraints to the growth of the industry:*

