
Appendix B

General Explanation and Report Form

DEVELOPMENT OF THE REPORT FORM

Planning for the 2013 Census of Aquaculture started in 2012 with the closeout of data collection for the 2012 Census of Agriculture. Extensive discussions and meetings took place between NASS staff and representatives of the aquaculture industry regarding 2013 Census of Aquaculture content. Evaluations from NASS staff of the 2005 Census of Aquaculture were reviewed. The decision was made to incorporate NASS's Annual Catfish and Annual Trout surveys into the 2013 Census of Aquaculture report form.

Report form drafts were developed in headquarters. NASS staff in regional field offices reviewed the drafts and solicited input from various data users in their respective States. Letters were sent to individuals in government organizations, industry, and academic positions to solicit their comments on report form content and design.

Pretesting was conducted with individuals and industry representatives associated with sections of the report form where changes were suggested. Participating field office and headquarters statisticians evaluated the results of their findings, identified flaws discovered during the interview process, and submitted recommendations to the report form design team in headquarters. All responses were reviewed and categorized to evaluate data collection feasibility and priority needs. Results of the pretest lead to a redesign and the final census of aquaculture report form.

DATA CHANGES

Following are descriptions of the report form changes and their effect on the publication tables.

Added items include:

- Acres used for hybrid catfish
- Algae, total
- Algae, microalgae
- Algae, sea vegetables
- Aquaponics system tanks
- Clams, geoduck
- Flounder
- Ornamental fish, saltwater
- Bass, hybrid striped distributed
- Chub distributed
- Gar distributed
- Grass carp distributed
- Sauger distributed
- Saugeye distributed
- Sturgeon distributed
- Suckers distributed
- Tilapia distributed

Items listed individually on the 2013 report form that were reported in conjunction with similar items on the 2005 report form include:

- Salmon, Atlantic
- Salmon, Pacific
- Ornamental fish, freshwater egg layers
- Ornamental fish, freshwater live bearers

Items combined on the 2013 report form that were reported individually with similar items on the 2005 report form include:

- Cages and pens (items listed separately in 2005)

Deleted items include:

- Arctic char
- Pacific threadfin
- Average gallons per minute flow in raceways
- Annual payroll
- Average operator hours per farm
- Paid workers (150 days or more)
- Paid workers (less than 150 days)

- Unpaid workers

Deleted State-level tables:

- Aquaculture produced and distributed (2013 has trout only)
- Baitfish production pounds and averages data
- Crustacean production data
- Food fish by size (2013 has only catfish and trout)
- Mollusk production data
- Percent of sales by point of first sale
- Sportfish production by size

DEFINITIONS AND EXPLANATIONS

The following definitions and explanations provide a detailed description of the terms used in this publication. Items in the tables which carry the note "See text" are also explained. For exact wording of the questions on the 2013 Census of Aquaculture report form, see the the facsimile of the form at the end of this appendix.

Algae. These are a very large and diverse group of simple organisms that can range from the microscopic (microalgae), to large seaweeds (macroalgae), such as giant kelp more than 100 feet in length. Microalgae include both organisms similar to bacteria called blue green algae, as well as green, brown, and red algae. Most algae grow through photosynthesis.

Aquaponics. A system of aquaculture in which the waste produced by farmed fish or other aquatic animals supplies nutrients for plants grown hydroponically (cultivating plants in water), which in turn purify the water.

Baitfish. These are fish used for bait, such as crawfish for bait, fathead minnows, golden shiners, emerald or silver shiners, feeder and bait goldfish, and suckers. Examples of fish in the Other baitfish category include chubs, leeches, and other types of minnows.

Broodstock. These are fish or other stock kept for reproduction, including males. Female broodfish produce the fertilized eggs which go to hatcheries.

Cages. Cage culture involves growing a culture

species in floating cages or baskets. Cages are normally used in larger, open bodies of water, such as lakes or rivers. The sides of the cages are rigid and are made of materials like plastic or plastic covered wire.

Carp, other. Included in this category are bighead, black, common, and silver carp.

Crustaceans. These are invertebrate animals with a hard shelled segmented body and jointed legs. Examples include crawfish, lobsters, prawns, shrimp, and softshell crabs.

Direct to consumers. Included in this category are sales made directly to individuals for home consumption or placement in their ponds for personal use. Also included are operations that raise and market fish through their own fee fishing operation. Sales made to fee fishing operations are included under "Wholesale to other producers."

Eggs. These are embryos surrounded by nutrient material and a protective covering.

Enhancement. A term often used on the West Coast with salmon. State and tribal hatcheries are releasing young salmon into known population areas to be harvested later upon the salmon's return from the sea.

Fingerlings. These are young fish, larger than a fry but not an adult.

Flow through raceways. Environment where fish are in a confined area, usually long and narrow, in which water enters one end and exits the other. Raceways can either be a natural flow system, using the natural flow of a river or stream, or a closed system where the water from the raceway flows through a series of ponds and then is pumped into a header pond that flows back into the raceway. The water area for a closed system is the surface acres of a raceway and all associated ponds. The area for a natural flow system is the surface acres that the raceway occupies.

Food fish. Includes fish raised primarily for food. Examples include hybrid striped bass, carp, catfish, yellow perch, red drum, salmon, sturgeon, tilapia, and trout. Examples of fish in the 'Other' food fish

category include barramundi, cobia, cod, and paddlefish.

In the 2013 Census of Aquaculture, the summary by value of aquaculture products sold is published for all food fish, including catfish and trout. In addition, eggs from food fish are included in the food fish totals.

Foodsize. Includes grown aquaculture products ready for market.

Fry. Very young post-larval fish.

Government agencies. Included in this category are sales made to Federal, State, or local government hatcheries or other groups involved in purchasing fish to stock Federal, publicly owned or regulated waters and recreational areas.

Hybrid catfish. A cross between a female channel catfish and a male blue catfish.

Hybrid striped bass. A cross between a male white bass and a female striped bass.

Larvae. Newly hatched, earliest stage of animals that undergo metamorphosis, differing markedly in form and appearance from the adult.

Live haulers, brokers, etc. Individuals or companies that purchase aquaculture products from a producer for immediate resale. They may or may not take possession of the product. Live haulers transport aquaculture products in oxygenated tank trucks to other outlets, including processing plants, pay lakes, recreational lakes, and retail outlets.

Miscellaneous aquaculture. In 2013, this category represents the production of aquaculture products other than food fish, sport fish, baitfish, ornamental fish, crustaceans, and mollusks. Examples include algae (microalgae and sea vegetables such as seaweed and ogo), alligators, caviar, eels, frogs, sea urchins, snails, tadpoles, turtles, and live rock. Examples of Other miscellaneous aquaculture include gambusia and bioassay fish (fish used for toxic testing).

Mollusks. These are marine invertebrates (no backbone). In general, mollusks have three body

regions: a head, a visceral mass, and a “foot.” Mollusks usually have a shell, although some do not. Examples include abalone, clams, mussels, and oysters. Examples of mollusks in the Other mollusk category include scallops and scallop seed.

Mollusks off bottom. The use of water column suspension techniques, including enclosures and lines for the production of normally bottom-dwelling mollusks. These techniques are designed to minimize bottom predators and maximize the use of a three-dimensional space for cultivation.

Mollusks on bottom. The practice of raising mollusks on the bottom of tidal waters that have had oyster shell, clam shell, or other material added to improve the habitat for growth and survival.

Non-recirculating systems. Process of rearing aquatic organisms and discharging the water after its intended use.

Off farm water. Water that comes from a Federal supplier; irrigation district; mutual, private, or cooperative ditches; commercial company; or municipal or community water system.

On farm surface water. Surface supply not controlled by a water supply organization. Examples include, streams, drainage ditches, lakes, ponds, springs, and reservoirs.

Operator. A person who operates the farm making day-to-day decisions for the farm.

Ornamental fish. This category includes fish raised for water gardens, aquariums, etc. Examples include koi and guppies. An example of fish in the Other ornamental fish category include seahorses.

Other aquaculture products. This category includes all aquaculture products that were not pre-printed in the table.

Oysters, other. This category includes Kumamoto and other oysters besides Eastern and Pacific.

Pens. Large enclosures usually placed in rivers or ocean bays. Pens are usually floated in the water, but may also be secured to the bottom. Pens are

supported in some way, with the sides being flexible.

Point of first sale. The first point at which money is exchanged for aquaculture products. For example, delivery of aquaculture products from the farm to the processing plant is considered to be the point of first sale.

Ponds. The most common type of water facility for raising fish. Most ponds are man-made and fish usually have access to the entire pond.

Processors. Companies that convert live fish to a product ready to cook such as fish fillets. Usually, the purchasing plant has no ties to the producer. However, in some cases, the plant may be a cooperative that is jointly owned by the producer and other producers. Also included in this category are the sales of aquaculture products by vertically integrated operations through their own processing and marketing operations.

Recirculating systems. Metal, plastic, or fiberglass tanks normally above ground and usually under cover used for the rearing of aquatic organisms where 90 percent or more of system water is recycled. Some tanks may consist of frames with liners.

Recreational stocking. When the point of first sale is recreational stocking, the purchaser will use the aquaculture production to stock private lakes or ponds.

Saltwater. Water from a sea or ocean, including brackish water. Freshwater converted to saltwater by

adding chemicals was tabulated as saltwater acres used in production. The source of water was tabulated as freshwater.

Sea vegetables. A type of algae seaweed that grows naturally in the ocean.

Seed. Young animals, generally oysters, clams, or mussels, used for stocking.

Shellfish. An aquatic invertebrate animal with a shell, particularly an edible mollusk or crustacean.

Sport fish. Fish raised primarily to be released into lakes and streams to be caught by sport fishermen. Fish may also be sold to fee fishing operations. Examples include largemouth and smallmouth bass, crappie, muskie, northern pike, sunfish, and walleye.

Stockers. Fingerlings that are large enough to be placed in the final grow-out pond, net, pen, or tank.

Sunfish. This category includes bluegill, copperside, bream, redear/shellcrackers, etc.

Surface water acres. A measure of the number of square acres needed to cover the surface of a pond, tank, raceway, etc.

Value of sales. The gross value of sales before marketing and production costs are deducted.

Wholesale to other producers. Included in this category are sales made to other farmers who buy live fish to raise for a later sale.

Please Return Promptly - Due January 15, 2014

OMB No. 0535-0237: Approval Expires 9/30/2016

Notice: Response to this inquiry is required by law (Title 7, U.S. Code). By the same law and the Confidential Information Protection and Statistical Efficiency Act (CIPSEA) of 2002 (Public Law 107-347), YOUR REPORT IS CONFIDENTIAL and will only be used for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. The law also provides that copies retained in your files are immune from legal process. (Title 7, U.S. Code).

2013 CENSUS OF AQUACULTURE

AQ-100
(10/24/2013)



National Agricultural
Statistics Service

Please return your
completed report to:

Census of Aquaculture
1201 East 10th Street
Jeffersonville, IN 47132

Please make corrections to name, address and ZIP code if necessary.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0535-0237. The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Everyone who receives a form must return one by mail or via the Internet at
www.agcounts.usda.gov

Your report is due by January 15, 2014.

Questions? Call us toll free at 1-888-4AG-STAT (1-888-424-7828)

SECTION 1: AQUACULTURE PRODUCTION SCREENING

1. In **2013**, did this operation or the individual(s) listed on the address label **produce** any fish, mollusks, crustaceans, or other aquaculture products?

INCLUDE: • Shellfish, egg production, food or sport fish, baitfish, ornamentals, crustaceans, mollusks, catfish, crawfish, koi, minnows, oysters, perch, soft-shell crabs, trout, turtles, and other aquaculture products.

EXCLUDE: • Wild-caught products.
• Aquatic plants other than algae and sea vegetables.
• Aquaculture products purchased from other growers for immediate resale or distribution.

³⁷⁷ 1 **Yes** - Go to Section 2, page 2

3 **No** - Go to Section 14, page 16

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SECTION 2: SIZE OF OPERATION

1. In **2013**, did this operation **produce and sell** any aquaculture products?

³⁷⁰ 1 **Yes** - Go to Item 2 below

3 **No** - Continue

a. In **2013**, did this operation **produce and distribute** (wild release in lakes, rivers, etc.) any aquaculture products for restoration, conservation, enhancement, or recreational purposes?

³⁷¹ 1 **Yes** - Go to Section 13, page 15

3 **No** - Go to Section 14, page 16

2. How many freshwater and saltwater acres were used to produce fish, mollusks, crustaceans, or other aquaculture products in 2013? 120

Freshwater Acres	
Acres	Tenths

Saltwater Acres	
Acres	Tenths

3. How many of these water acres were rented or leased from others? (**Include** acres leased from the State.) 124

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SECTION 3: SOURCES OF WATER

1. Which of the following sources of water did this operation use for its aquaculture production in **2013**? **Check all that apply.**

¹⁵¹ **Groundwater** - Water from a well or wells located on this farm or another farm, or recycled from a well pond.

¹⁵² **On-farm surface water** - Surface supply not controlled by a water supply organization. Include streams, drainage ditches, farm lakes, runoff ponds, springs, or reservoirs on or adjacent to this farm.

¹⁵³ **Off-farm water** - Water from a federal supplier, irrigation district, cooperative or neighborhood ditches, commercial company, or municipal or community water system.

¹⁵⁴ **Saltwater** - Include brackish water, tidal, sub-tidal, open public waterways, owned or leased.

SECTION 4: METHODS OF PRODUCTION

1. Which production methods did this operation use in 2013?

a. Ponds:

(i) How many ponds were used to produce aquaculture products?
(Exclude flooded cropland) 125

Number	

(ii) What was the total water surface area
of these ponds? 130

Acres	Tenths

OR

Sq. Ft.	

b. Cropland used for crawfish: How many total cropland acres were used
for crawfish production? 129

Acres	Tenths

c. Flow through raceways: How many raceways were used for raising
aquaculture products? 132

Number	

d. Recirculating systems (Exclude aquaponics, report in Item 1f):
(i) How many recirculating tanks were used to produce aquaculture products? . . 126

Number	

(ii) What was the total volume of these tanks? 135

Gallons	

e. Non-recirculating systems:

(i) How many non-recirculating tanks were used to produce
aquaculture products? 123

Number	

(ii) What was the total volume of these tanks? 140

Gallons	

f. Aquaponics:

(i) How many tanks were used to produce aquaculture products in an
aquaponics system? 128

Number	

(ii) What was the total volume of these tanks? 134

Gallons	

g. Cages or Pens:

(i) How many cages or pens were used to produce aquaculture products?
(Exclude traps) 127

Number	

(ii) What was the total volume of these cages or pens? 133

Cu. Ft.	

h. Mollusks on bottom: What was the total water area? 136

Acres	Tenths

i. Mollusks off bottom: Which of the following were used? **Check all that apply.**

- 141 Floating Trays 143 Long lines 145 Rafts 8013
- 142 Racks and bags 144 String culture 146 Other - specify:

j. Other method not listed above: Report unit and volume.

Specify type 8014 . . . 137

Unit

Volume

138

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SECTION 5: CATFISH PRODUCTION

1. Did this operation **produce or sell** any catfish in 2013?

³⁷² 1 **Yes** - Continue

3 **No** - Go to Section 6, page 6

2. What are the total **WATER ACRES** used and to be used on this operation to produce catfish during the period of **January 1 – June 30, 2014**? (Exclude areas of new facilities under construction) 259

Acres

a. How many of the total acres are currently being or will be **RENOVATED**? 260

b. How many of the total acres are **USED FOR BROODFISH** production? 261

c. How many of the total acres are **USED FOR FOODSIZE** production? 266

d. How many of the total acres are **USED EXCLUSIVELY FOR FINGERLINGS**? 262

3. What is the water area of **NEW FACILITIES** under construction or to be constructed for use during the period of **January 1 – June 30, 2014**? 263

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4. Of the facilities previously used to produce catfish, how much water area was **TAKEN OUT OF PRODUCTION** during the period of **July 1 – December 31, 2013**? 264

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5. How many of the total acres are **USED OR TO BE USED FOR HYBRID CATFISH** during the period of **January 1 – June 30, 2014**? 265

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6. On **January 1, 2014**, what was this operation's **estimated inventory** of catfish in the following size categories? For items 6b through 6g, **exclude** Broodfish reported in item 6a.

SIZE CATEGORY	CATFISH INVENTORY				
	Total Number	OR	Total Pounds	Average Pounds	
				Per Fish	Per 1000 Fish
a. Broodfish - fish being used or to be used for breeding	721	OR	720	722	Tenths
b. Large Foodsize - over 3 lbs.	724	OR	723	725	
c. Medium Foodsize - over 1½ lbs. to 3 lbs.	727	OR	726	728	
d. Small foodsize - over ¾ lbs. to 1½ lbs.	730	OR	729	731	
e. Large Stockers - over 180 lbs. to 750 lbs./1000 fish.	733	OR	732		735
f. Small Stockers - over 60 lbs. to 180lbs./1000 fish.	737	OR	736		739
g. Fingerlings - 2 to 6 inches OR 2 to 60 lbs./1000 fish.	741	OR	740		742

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SECTION 5: CATFISH PRODUCTION (continued)

7. During 2013, what were this operation's **Total Catfish Sales** in the following size categories? Value of sales should reflect the price received at the farm gate, excluding packaging and distribution costs. If this operation has its own processing plant, the reported sales should be the value going into the plant. For items 7c through 7f, **exclude** Broodfish reported in items 7a and 7b. **Exclude** fish bought for immediate resale or fish brokered by this operation.

SOLD AS:	Total Number Sold	Total Pounds Live Weight Sold	Total Sales (Dollars)
a. Broodfish (fish being used or to be used for breeding)	610	609	611
			\$.00
	613	612	614
b. Broodfish (previously used for breeding)			\$.00
	616	615	617
c. All Foodsize (over ¾ lbs. per fish).			\$.00
	619	618	620
d. Stockers (over 6 inches) or (over 60 lbs. to 750 lbs. per 1000 fish).			\$.00
	622	621	623
e. Fingerlings (2 to 6 inches) or (2 lbs. to 60 lbs. per 1000 fish).			\$.00
	625	624	626
f. Fry (under 2 inches) or (less than 2 lbs. per 1000 fish)			\$.00
	627		628
g. Catfish Eggs			\$.00

8. In 2013, what percent of the total value of catfish sales reported in Items 7a - 7g above was sold directly to each of the following point of first sale outlets? **Exclude** fish bought for immediate resale or fish brokered by this operation.

POINT OF FIRST SALE OUTLET	Percent of Total Value of Sales:			
	FOODSIZE over ¾ pound (Include Broodfish)		STOCKERS ¾ lb. or less (usually 6 inches or more in length)	
a. Processors (also include fish processed on the operation).	640	%		
b. Live haulers/brokers	630	%	631	%
c. Retail outlets (restaurants, grocery stores, etc.).	642	%		
d. Direct to consumers (farmers market, on-farm fee fishing)	638	%		
e. Recreational stocking (private lakes and ponds).	632	%	633	%
f. Wholesale to other producers (to stock commercial and fee fishing operations)	634	%	635	%
g. Government agencies	636	%	637	%
h. Exports	646	%	647	%
i. Other - specify: <input type="text" value="8015"/>	644	%	645	%
Total		100%		100%

270	Office Use Only Acres	760	Office Use Only Inventory	650	Office Use Only Sales
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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SECTION 6: TROUT PRODUCTION

1. Did this operation **produce and sell** any trout or trout eggs in 2013? (Trout produced and not sold but **distributed** for restoration, conservation or recreation purposes should be reported in Section 13, page 15).

³⁷⁵ 1 **Yes** - Continue

3 **No** - Go to Section 7, page 8

2. What were the total trout sales of fish and eggs produced or raised (grown-out) on this operation during 2013, for the size categories below? Value of sales should reflect the price received at the farm gate, excluding packaging and distribution costs. If this operation has its own processing plant, the reported sales should be the value going into the plant. For Items 2b through 2d, **exclude** Broodfish reported in item 2a. Report **distributed** trout (not sold) in **Section 13**.

FISH SIZE:	Total Number Sold	Total Pounds Live Weight Sold	Total Sales** (Dollars)
a. Broodfish (fish being used or to be used for breeding)	067	068	069
			\$.00
	022	023	024
b. 12 inches or longer			\$.00
	025	026	027
c. 6 inches to less than 12 inches long			\$.00
	057	058	059
d. 1 inch to less than 6 inches long			\$.00
	028		029
e. Trout Eggs			\$.00

** Live weight price – exclude cleaning charges.

3. In 2013, what percent of the total trout value of sales reported in Items 2a - 2e was sold directly to each of the outlets listed below? **Exclude** fish bought for immediate resale or fish brokered by this operation.

POINT OF FIRST SALE OUTLET	PERCENT OF TOTAL VALUE OF SALES			
	12 inches or longer		6 to less than 12 inches	
a. Processors (also include fish processed on the operation).	039	%	061	%
b. Live haulers/brokers	030	%	031	%
c. Retail outlets (restaurants, grocery stores, etc.).	040	%	062	%
d. Direct to consumers (farmers market, on-farm fee fishing)	019	%	063	%
e. Recreational stocking (private lakes and ponds).	032	%	033	%
f. Wholesale to other producers (to stock commercial and fee fishing operations)	034	%	035	%
g. Government agencies	036	%	037	%
h. Exports	070	%	071	%
i. Other - specify: <input type="text"/>	041	%	042	%
Total	100%		100%	

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SECTION 6: TROUT PRODUCTION (continued)

4. What were the total **number** and **live weight pounds** of trout lost during 2013 for each of the following reasons?

- Include:**
- Only losses intended for sale
 - All lengths and sizes

CAUSE OF LOSS	INTENDED FOR SALE	
	Number	Pounds
a. Disease	045	046
b. Theft or vandalism	047	048
c. Chemical contamination	049	050
d. Drought	051	052
e. Flood	053	054
f. Predators (animals, birds, etc.)	081	082
g. Other - specify: <input type="text"/>	055	056

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Trout distributed reported in Section 13, page 15

SECTION 7: FOOD AND/OR SPORT FISH

- Other than catfish or trout, did this operation **produce and sell** any food fish or sport fish, including carp used as biological control agents, in 2013?
 378 1 **Yes** - Continue
 3 **No** - Go to Section 8, page 9
- Include the number sold, total pounds and total sales for each size category. **Use a separate line for each species and size category sold.** Value of sales should reflect the price received at the farm gate, excluding packaging and distribution costs. If this operation has its own processing plant, the reported sales should be the value going into the plant. For **eggs** report total number sold and total sales. Report **roe caviar** in Section 11.

PLEASE COMPLETE ALL COLUMNS

1		2		3	4	5
Species and Code From table at the bottom of this page		Size Category 1 - Foodsize or market size 2 - Stockers 3 - Fingerlings or Fry 4 - Broodfish 5 - Eggs complete columns 3 and 5		Total Number of Fish or Eggs Sold	Total Pounds Live Weight Sold	Total Sales
Species produced and sold	Code	Enter Code		Number	Pounds	Dollars
Example: Tilapia	26	1		12,000	18,000	\$ 45,000 .00
Example: Sunfish	24	3		450,000	9,000	\$ 70,000 .00
	300	301		302	303	304
						\$.00
	305	306		307	308	309
						\$.00
	310	311		312	313	314
						\$.00
	315	316		317	318	319
						\$.00
	320	321		322	323	324
						\$.00
	325	326		327	328	329
						\$.00
	330	331		332	333	334
						\$.00
	335	336		337	338	339
						\$.00
	345	346		347	348	349
						\$.00
	355	356		357	358	359
						\$.00

Name	Code	Name	Code	Name	Code	Name	Code
Barramundi	1	Carp, silver	9	Pangasius/Swai	18	Sturgeon	25
Bass, hybrid striped	2	Carp, other	10	Perch, yellow	19	Tilapia	26
Bass, largemouth	3	Cobia	11	Red drum	20	Walleye	27
Bass, smallmouth	4	Cod, Atlantic	12	Salmon, Atlantic	21	Yellow croaker	28
Carp, bighead	5	Cod, black	13	Salmon, Pacific	22	Other food fish	
Carp, black	6	Crappie (sac- au-lait)	14	Seriola	23	Enter name in first column	29
Carp, common	7	Flounder	15	Sunfish (Include bluegill, coppernose, bream, redear/shellcrackers, etc.)	24	Other sport fish	
Carp, grass	8	Northern pike	17			Enter name in first column	30

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SECTION 8: BAITFISH

1. Did this operation **produce and sell** any baitfish, including crawfish sold for bait, in 2013? Report crawfish for food in Section 9.

379 1 **Yes** - Continue

3 **No** - Go to Section 9, page 10

Acres	Tenths

2. How many surface **acres of water** were used to produce baitfish in 2013? . . . 400

3. Report baitfish sales below. Value of sales should reflect the price received at the farm gate, excluding packaging and distribution costs. **Exclude** fish bought for immediate resale or fish brokered by this operation.

Report baitfish sold by the:

- **Pound** or **Number of fish** in **TABLE 3a**. If the total number of fish sold is not known, report the approximate number of fish per pound.
- **Gallon** in **TABLE 3b**. If pounds and number of fish are not known, approximate. Report crawfish sold for bait in sacks.

TABLE 3a: Baitfish Sold by the Pound or Number of Fish

Species Raised and Sold	Pounds Live Weight Sold		Number of Fish			Total Sales (Dollars)	
			Total Number of Fish Sold	OR	Number of Fish per Pound		
Example: Fathead minnows	20			OR	250	\$	225 .00
Fathead minnows	402		401	OR	403	404	\$.00
Goldfish - feeder and bait	410		409	OR	411	412	\$.00
Golden shiners	418		417	OR	419	420	\$.00
Other shiners (Emerald, silver, etc.)	426		425	OR	427	428	\$.00
Suckers	434		433	OR	435	436	\$.00
Crawfish - bait (report crawfish for food in Section 9)	442		441	OR	443	444	\$.00
Other - 8029 specify:	450		449	OR	451	452	\$.00

**TABLE 3b: Baitfish Sold by the Gallon
PLEASE COMPLETE ALL COLUMNS**

Species Raised and Sold	Total Number of Gallons Sold		Pounds Per Gallon Sold		Tenths	Number of Fish per Gallon		Total Sales (Dollars)	
Example: Golden shiners	150		8	5		1,500	\$	6,000 .00	
Fathead minnows	405		406			465	466	\$.00	
Goldfish - feeder and bait	413		414			415	416	\$.00	
Golden shiners	421		422			423	424	\$.00	
Other shiners (Emerald, silver, etc.)	429		430			431	432	\$.00	
Suckers	437		438			439	440	\$.00	
Crawfish - bait in sacks (report crawfish for food in Section 9)	445		446			447	448	\$.00	
Other - 8031 specify:	453		454			455	456	\$.00	

21203096

SECTION 9: CRUSTACEANS AND MOLLUSKS (Includes clams, crawfish, oysters, shrimp, soft-shell crabs, etc.)

1. Did this operation produce and sell any crustaceans or mollusks in 2013?

380 1 **Yes** - Continue

3 **No** - Go to Section 10, page 12

2. Report each species and size category on a separate line. Value of sales should reflect the price received at the farm gate, excluding packaging and distribution costs. If this operation has its own processing plant, the reported sales should be the value going into the plant. Report crawfish for bait in Section 8.

	1	2	3	4	5
	Species and Code From the table at the bottom of this page		Size Category 1 - Food or market size 2 - Broodstock 3 - Larvae 4 - Seed - Complete only columns 4, 5, 9 5 - Other - specify: 8114 <input type="text"/>	Number of Units Sold	Unit Sold 1 - Number 2 - Pound - in shell 3 - Pound - out of shell 4 - Dozen 5 - Bushel 6 - Sack/bag 7 - Gallon 8 - Barrel 9 - Other - specify: 8115 <input type="text"/>
LINE			Species produced and sold		Code
	Example: Crawfish	7	1	100,000	2
	Example: Pacific oyster seed	13	4	8,000,000	1
	Example: Eastern oysters	12	1	150	4
01		881	882	883	884
02		889	890	891	892
03		897	898	899	900
04		905	906	907	908
05		913	914	915	916
06		021	922	923	924
07		929	930	931	932
08		937	938	939	940
09		945	946	947	948
10		954	955	956	957
11		962	963	964	965
12		970	971	972	973

Name	Code	Name	Code	Name	Code
Abalone	1	Crawfish for food - report		Oysters, Eastern.	12
Clams, hard	2	crawfish for bait in Section 8.	7	Oysters, Pacific	13
Clams, Manila	3	Lobster	8	Oysters, other.	
Clams, Geoduck	4	Mussels	9	Enter name in first column	14
Clams, other.		Prawns, fresh water	10	Other crustaceans.	
Enter name in first column	5	Shrimp, salt water	11	Enter name in first column	15
Crabs, soft-shell	6			Other mollusks.	
				Enter name in first column	16

21203104

SECTION 9: CRUSTACEANS AND MOLLUSKS (continued)

SECTION 9: CRUSTACEANS AND MOLLUSKS (continued)									
		6		7		8		9	
		Weight of product sold Skip columns 6 and 7 if unit code in column 5 = 2 or 3				Average Number of crustaceans or mollusks per unit sold Skip this column if unit sold is number (column 5 = 1)		Total Sales	
		Number of pounds per unit sold		OR	Total pounds Sold				
LINE	Pounds	Tenths			Pounds		Number		Dollars
				OR			20	\$	50,000 .00
				OR				\$	50,000 .00
		80	5	OR			120	\$	9,000 .00
01	886			OR	885		887		888 \$.00
02	894			OR	893		895		896 \$.00
03	902			OR	901		903		904 \$.00
04	910			OR	909		911		912 \$.00
05	918			OR	917		919		920 \$.00
06	926			OR	925		927		928 \$.00
07	934			OR	933		935		936 \$.00
08	942			OR	941		943		944 \$.00
09	951			OR	949		952		953 \$.00
10	959			OR	958		960		961 \$.00
11	966			OR	967		968		969 \$.00
12	974			OR	975		976		977 \$.00

21203112

SECTION 10: ORNAMENTAL FISH

1. Did this operation **produce and sell** any ornamental fish in 2013?

381 1 **Yes** - Continue

3 **No** - Go to Section 11, page 13

2. Report each species on a separate line. Value of sales should reflect the price received at the farm gate, excluding packaging and distribution costs. **Exclude** fish bought for immediate resale or fish brokered by this operation.

1		2		3		4		5	
Species and Code From table at the bottom of this page		Number of units produced and sold		Unit Sold 1 - Number of fish 2 - Pounds 3 - Boxes 4 - Bags 5 - Other - specify: 8116 <input type="text"/>		Average number of fish per unit Skip this column if unit sold is number of fish (column 3 = 1)		Total Sales	
Species produced and sold	Code	Number		Enter code		Number		Dollars	
Example: Koi	2	12,000		1				\$	24,000 .00
Example: Ornamental, Freshwater live bearers	3	200		3		250		\$	6,000 .00
	651	652		653		654		655	
								\$	.00
	656	657		658		659		660	
								\$	.00
	661	662		663		664		665	
								\$	.00
	666	667		668		669		670	
								\$	.00
	671	672		673		674		675	
								\$	.00
	676	677		678		679		680	
								\$	.00
	681	682		683		684		685	
								\$	.00
	686	687		688		689		690	
								\$	.00
	691	692		693		694		695	
								\$	.00
	696	697		698		699		700	
								\$	.00
	701	702		703		704		705	
								\$	.00

Name	Code	Name	Code	Name	Code
Goldfish	1	Ornamental fish -		Other ornamentals - include	
Koi	2	Freshwater egg layers	4	seahorses, invertebrates,	
Ornamental fish -		Ornamental fish - Saltwater	5	etc. - Enter name above	6
Freshwater live bearers	3				

21203120

SECTION 11: MISCELLANEOUS AQUACULTURE

1. Did this operation produce and sell any other aquaculture products in 2013?

382 1 Yes - Continue

3 No - Go to Section 12, page 14

2. Include only other aquaculture products. Include all size categories within each species. Value of sales should reflect the price received at the farm gate, excluding packaging and distribution costs. If this operation has its own processing plant, the reported sales should be the value going into the plant.

PLEASE COMPLETE ALL COLUMNS

Species Produced and Sold		Total Number Sold	Total Pounds Sold	Total Sales (Dollars)	
Algae: Microalgae				470	\$.00
Sea Vegetables (seaweed, ogo)			471	472	\$.00
Alligators: Whole	743		744	745	\$.00
Meat			747	748	\$.00
Hides (report in feet)	749			751	\$.00
Caviar			753	754	\$.00
Eels	755		756	757	\$.00
Frogs	758		759	761	\$.00
Sea Urchins	762		763	764	\$.00
Snails	765		766	767	\$.00
Tadpoles	768		769	770	\$.00
Turtles: Whole	771		774	772	\$.00
Eggs	773			775	\$.00
Live rock: 8085 specify unit		776	777	778	\$.00
Other - specify: 8086		779	780	781	\$.00
Other - specify: 8087		782	783	784	\$.00
Other - specify: 8088		085	786	787	\$.00
Other - specify: 8089		791	792	793	\$.00
Other - specify: 8090		794	795	796	\$.00
Other - specify: 8091		797	798	799	\$.00

21203138

SECTION 12: SALES OUTLET BY SPECIES (Exclude catfish and trout)

1. In 2013, what percent of this operation's total value of aquaculture sales was sold directly to the following outlets for each species category? **Exclude** fish bought for immediate resale or fish brokered by this operation.

Point of first sale outlet	Food fish Exclude Catfish and Trout		Sport or Game fish		Baitfish		Ornamental Fish		Crustaceans		Mollusks		Other Aquaculture	
Processors (include aquaculture products processed on the operation) . . .	801		831						861		851		871	
		%		%						%		%		%
Live haulers/brokers	804		834		814		824		864		854		874	
		%		%		%		%		%		%		%
Retail outlets (restaurants, grocery stores, etc.)	802		832		812		822		862		852		872	
		%		%		%		%		%		%		%
Direct to consumers (farmers market, on-farm fee fishing)	803		833		813		823		863		853		873	
		%		%		%		%		%		%		%
Recreational stocking (private lakes and ponds)	805		835		815		825		865		855		875	
		%		%		%		%		%		%		%
Wholesale to other producers (to stock commercial and fee fishing operations)	806		836		816		826		866		856		876	
		%		%		%		%		%		%		%
Government agencies	807		837		817		827		867		857		877	
		%		%		%		%		%		%		%
Exports	809		839		819		829		869		859		879	
		%		%		%		%		%		%		%
Other - specify: <input type="text"/>	808		838		818		828		868		858		878	
		%		%		%		%		%		%		%
Total	100%		100%		100%		100%		100%		100%		100%	

21203146

SECTION 13: AQUACULTURE PRODUCED AND DISTRIBUTED (not sold)

1. Did this operation **produce and distribute** aquaculture products for restoration, conservation, enhancement, or recreational purposes during 2013? **Exclude** aquaculture reported in previous sections.

383

1 **Yes** - Continue

3 **No** - Go to Section 14, page 16

2. What were the total amounts produced and distributed by this operation, by species category, in 2013?

Instructions: Include all size categories within each species. For fish, crustaceans or mollusks distributed, report both number and pounds. For eggs or seed, report only the number distributed. Write in species not listed.

Species	Number distributed		Pounds distributed		Number of eggs or seed stock distributed		Estimated Total Value of Product Distributed	
Bass, striped	509		510		511			
Bass, large mouth	551		552		553			
Catfish	501		502		503			
Fathead minnows	554		555		556			
Northern pike	557		558		559			
Perch	560		561		562			
Salmon	505		506		507			
Shad	563		564		565			
Sunfish ¹	566		567		568			
Trout - 12 inches or longer . . .	201		202				203	\$.00
Trout - 6 to less than 12 inches long	204		205				206	\$.00
Trout - 1 to less than 6 inches long	207		208				209	\$.00
Trout Eggs					210			
Walleye	517		518		519			
Clams	525		526		527			
Mussels	529		530		531			
Oysters	533		534		535			
Alligators	572		573		574			
Crawfish	575		576		577			
Turtles	578		579		580			
⁸⁰⁹³ Other - specify:	537		538		537			
⁸⁰⁹⁴ Other - specify:	541		542		543			
⁸⁰⁹⁵ Other - specify:	544		545		546			

¹ Sunfish includes bluegill, coppernose, bream, redear/shellcrackers, etc.

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21203153

SECTION 14: OPERATION

1. Did this operation grow and sell aquatic plants in 2013?

384 1 **Yes**
 3 **No**

2. In the future, does this operation intend to produce aquaculture products?

386 1 **Yes**
 3 **No**

3. It is important that we do not duplicate data. Is it possible the information on this form would be reported by another operation or under another name?

387 1 **Yes** - List name here: 8096 8097 - -
 3 **No** - Continue

4. Do you make any day-to-day decisions for another aquaculture operation?

388 1 **Yes** - List name here: 8098 8099 - -
 3 **No** - Continue

5. Has this operation (name on address label) been sold or turned over to someone else?

389 1 **Yes** - List name here: 8100 8101 - -
 3 **No** - Continue

SECTION 15: CONCLUSION

COMMENTS:

1091

Respondent Name:

1092

Area Code and Phone Number:

9911 - -

Date: (MM-DD-YY)

9910

This completes the questionnaire. **Thank you for your cooperation.**
 The complete report will be available on the Internet at <http://www.nass.usda.gov> in fall of 2014.

OFFICE USE ONLY

Response	9901	Respondent	9902	Mode	9903	R Unit	Enum.	Eval.	Change	Office Use for POID
1-Comp 2-R 3-Inac 4-Office Hold 5-R-Est 6-Inac-Est 7-Off Hold-Est 8-Known Zero		1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth		1-Mail 2-Tel 3-Face-to-Face 4-CATI 5-Web 6-e-mail 7-Fax 8-CAPI 19-Other						789
										Optional Use
										407 408 9906 9916

S / E Name

21203161



INSTRUCTION SHEET 2013 CENSUS OF AQUACULTURE

Completing the 2013 Census of Aquaculture Census form

General

Refer to the instructions below for completing your 2013 Census of Aquaculture form. The enclosed census form was mailed to aquaculture producers throughout the United States. Because it is meant for use in all parts of the country, it may contain items and inquiries which do not apply to your operation. In this case, mark the "No" or "None" box and continue to the next item or section. If you did not produce aquaculture products of any kind in 2013, please see the instructions in Section 1 on this page.

Partial Year Operation

If you stopped producing aquaculture products at any time during 2013, complete the census form for the portion of 2013 that you did produce. Write "Stopped producing in 2013" and the date you stopped producing below the address area. Mail the completed census form in the return envelope.

If You Receive More Than One Census Form for the Same Operation

Return any duplicate census forms in the same envelope with your completed census form(s). In the address area of the census form(s) you complete, write the 11-digit ID number from the label of the extra census form(s).

Partnership Operations

Complete only ONE census form for a partnership operation and include all partners' shares on the same census form. If two or more census forms are received for the partnership, see instructions above about "If You Receive More Than One Census Form for the Same Operation".

Entering Your Responses on the Census Form – Use BLUE or BLACK INK only.

Enter your responses in the proper spaces and in the units requested, i.e., dollars, tenth of acres, gallons per minute, etc. When reporting dollars, report in whole dollars only. Please print clearly and keep numbers and letters within the white boxes. Mark all applicable Yes/No boxes with an "X".

Instructions by Section

Section 1 – Aquaculture Production Screening

This section determines whether or not your operation is within the scope of this census.

Item 1 – Report whether you produced any aquaculture or aquaculture products of any kind in 2013. Aquaculture products include fish of any kind, shellfish, mollusks, crustaceans, egg production, food or sport fish, baitfish, ornamentals, catfish, crawfish, koi, minnows, oysters, perch, soft-shell crabs, trout, turtles, algae, alligators, live rock, and any other aquaculture products. If you did not produce any aquaculture products of any kind in 2013, please mark "No" and continue to Section 14 on the back page of the form and complete the remainder of the census form.

Section 2 – Size of Operation

This section determines whether you produced to sell aquaculture or produced to distribute.

Item 1 – Answer yes if you received any money for any aquaculture product that you produced.

Item 1a – Answer yes if you produced aquaculture products for distribution and did not receive any money.

Item 2 – Report the area owned, rented, or used for aquaculture production in 2013 by the respondent, spouse, partnership, corporation, or organization identified on the questionnaire. All responses in this item should be rounded to tenths of acres. Small aquaculture operations less than one acre should be reported as one acre.

Freshwater is water with less than 0.5 parts per thousand dissolved salts. May be found in lakes, rivers, bodies of groundwater, or obtained from wells or surface runoff.

Saltwater is water from a sea or ocean, including brackish water. Also, it is fresh water converted to saltwater by adding chemicals.

Item 3 – Report all acres used for aquaculture production in 2013 that was rented or leased from others on shares, cash rent, used rent-free, in exchange for services, for taxes, etc., regardless of location, even if used for part of the year.

Section 3 – Sources of Water

Report the source(s) of water used for aquaculture production in 2013. Select all that apply.

Section 4 – Methods of Production

Item 1c – **Flow through raceways** are confined areas, usually long and narrow, in which water enters one end and exits the other. Raceways can either be a natural flow system, using the natural flow of a river or stream, or a closed system where the water from the raceway flows through a series of ponds and then is pumped into a header pond that flows back into the raceway. The water area for a closed system would be the surface acres of the raceway and of all associated ponds. The area for a natural flow system would be the surface acres that the raceway occupies.

Item 1d (i) – **Recirculating systems** are metal, plastic, or fiberglass tanks normally above ground and usually under cover used for the rearing of aquatic organisms where 90 percent or more of the system water is recycled. Some tanks may consist of frames with liners.

Item 1f (i) – **Aquaponics** is a system that combines aquaculture with hydroponics (cultivating plants in water) in a symbiotic environment.

Item 1g (i) – Report the number of **cages and pens** used to produce aquaculture products. Exclude traps (used to capture aquatic creatures).

Cages have sides that are rigid and made of materials like plastic or plastic-covered wire.

Pens are large enclosures usually placed in rivers or ocean bays. Pens are usually floated in the water, but may also be secured to the bottom. Pens are supported in some way, with the sides being flexible.

Section 5 – Catfish Production

Item 1 – This question determines whether you produced or sold catfish in 2013.

Item 5 – The hybrid catfish is the offspring of a female channel catfish and a male blue catfish.

Item 6 – Report the total number or the total pounds and average pounds for each size of catfish produced.

Item 7 – Report the number sold, total pounds, and total sales for each size of catfish. Catfish distributed for restoration, conservation, or recreation should be reported in Section 13.

Section 6 – Trout Production

Item 1 – This question determines whether you produced and sold trout. Trout distributed for restoration, conservation, or recreation should be reported in Section 13.

Item 2 – Report the number sold, total pounds, and total sales for each size of trout produced.

Section 7 – Food and/or Sport Fish

Item 1 – This question determines whether you produced and sold food or sport fish.

Item 2 – Report the number sold, total pounds, and total sales for each type and size of food and sport fish produced.

Column 1 – Record the type of food or sport fish produced and sold.

Column 2 – Record the size category code being reported.

Foodsize includes grown aquaculture products ready for market.

Stockers are large enough to be placed in the final grow-out pond, net, pen, or tank.

Fingerlings are young fish, larger than a fry but not an adult.

Fry are very young, post-larval fish.

Broodstock are fish kept for egg production, including males.

Eggs are embryos surrounded by nutrient material and a protective covering.

Column 3 – Report the total number of fish or eggs sold.

Column 4 – Report total pounds of fish sold. Complete for all size categories **except** eggs.

Column 5 – Total revenue received from the sale of the food and sport fish produced.

Section 8 – Baitfish

Item 1 – This question determines whether you produced and sold baitfish. Crawfish for food is reported in section 9.

Baitfish are fish used for bait, such as crawfish, fathead minnows, golden shiners, emerald or silver shiners, feeder and bait goldfish, suckers, chubs, leeches, and other types of minnows.

Table 3a – For baitfish sold by the pound or number of fish, report the total pounds live weight sold, and total sales. Total sales should reflect the price received at the farm gate, excluding packaging and distribution costs. Report either the total number of fish sold or number of fish per pound.

Table 3b – For baitfish sold by the gallon, report the total number of gallons sold, pounds per gallon, number of fish per gallon and total sales.

Section 9 – Crustaceans and Mollusks (Includes clams, crawfish, oysters, shrimp, soft-shell crabs, etc.)

Item 1 – This question determines whether you produced crustaceans and/ or mollusks, including crawfish for food. Crawfish for bait is reported in section 8.

Crustaceans are invertebrate animals with a hard shelled segmented body, and jointed legs. Examples include crawfish, lobsters, prawns, shrimp, and soft shell crabs.

Mollusks are marine invertebrates (no backbone). In general, mollusks have three body regions: a head, a visceral mass, and a “foot.” Mollusks usually have a shell, although some do not. This category includes abalone, clams, mussels, oysters, scallops, and scallop seed.

Section 10 – Ornamental Fish

Item 1 – This question determines whether you produced and sold ornamental fish. Ornamental fish are raised for water gardens, aquariums, etc. Examples include koi, ornamental goldfish, tropical fish, and ornamental catfish.

Item 2 – Report each species and type of unit sold on separate lines. Types of units sold include number of fish, pounds, boxes, bags, etc. Report the number of units produced and sold in column 2.

Column 5 – Report total sales in dollars. Total sales should reflect the price received at the farm gate, excluding packaging and distribution costs.

Section 11 – Miscellaneous Aquaculture

Item 1 – This question determines whether you produced and sold miscellaneous aquaculture. This includes algae, alligators, eels, frogs, sea urchins, snails, tadpoles, and turtles. Do not include wild caught or harvested items.

Item 2 – Report total number and weight sold of all sizes within each species. Total sales should reflect the price received at the farm gate, excluding packaging and distribution costs.

Section 12 – Sales Outlet by Species (Exclude catfish and trout)

Item 1 – Report where the operation sold its production directly. The percentage for each category of product must equal 100 percent. Catfish and trout are reported in sections 5 or 6.

Processors are companies that convert live fish to a product ready to cook and distribute, such as fish fillets.

Live haulers, brokers, etc. are individuals or companies that purchase aquaculture products from a producer for immediate resale. They may or may not take possession of the product. Live haulers transport aquaculture products in oxygenated tank trucks to other outlets, including processing plants, pay lakes, recreational lakes, and retail outlets.

Direct to consumers are sales made directly to individuals for home consumption or placement in ponds for personal use. This includes places that raise and market fish through their own fee fishing operation.

Section 13 – Aquaculture Produced and Distributed (not sold) for Restoration, Enhancement, Conservation, or Recreational Purposes

Complete this section if the operation distributed any aquaculture products for restoration, enhancement, conservation or recreational purposes in 2013. Fish and eggs distributed without charge should be entered here. Fish and eggs sold should be excluded from this table and reported as sales in the appropriate section. If the operation did not distribute any aquaculture products, skip to Section 14.

Section 14 – Operation

Item 3 – If this operation has additional names, or connections to additional operations, record the name and phone number here.

Item 4 – This question determines if the operator made day to day decisions for multiple operations. If you are involved with any other aquaculture operation, list them here.

Item 5 – If this operation was sold or turned over to someone else, record the new operators name and phone number here.

Section 15 – Conclusion

Print your name, phone number and the date you completed the questionnaire.