# Respondee Information

. Affiliation (optional, but encouraged)	
3. Region	
Northeastern U.S.	
Southern U.S.	
North Central U.S.	
Western U.S.	
Tropical and Subtropical U.S.	
1. Type of organization	
Private for profit	State funded University
Private not for profit	State funded Agency/Center
Public not for profit	Federally funded Agency/Center
Privately funded University	Tribal Agency
Other (please specify)	

# **Broodstock** 5. What is the broodstock availability? Wild Caught Farm raised 1st generation Farm raised less than 5 generations Farm raised greater than 5 generations Do not know 6. What is the common rearing system? Recirculating tank system Cages Flow through tanks Net pens Ponds Do not know Other (please specify) 7. Has directed selective breeding been implemented? Yes Do not know If Yes, selective breeding has been implemented, what traits are receiving focus (e.g., disease resistance)? 8. What is the spawning method? Tank spawn with hormone induced ovulation Tank spawn without hormone induced ovulation Strip spawn with hormone induced ovulation Strip spawn without hormone induced ovulation Do not know

10.	How is pre-ovulation conditioning accomplished?
	Natural light and temperature
	Artificial lighting and temperature control
	Do not know
	Other - Describe in general terms (10 words or fewer)
11	What is the size of the eggs at ovulation? Fill in size, specify units (e.g., μm):
11.	what is the size of the eggs at ovulation? Fill in size, specify units (e.g., μm).
12	What is the typical snawning season?
12.	What is the typical spawning season?
12.	What is the typical spawning season?
	What is the typical spawning season?  Is technology available to control spawning frequency?  Yes, some experimental success
	Is technology available to control spawning frequency?  Yes, some experimental success
	Is technology available to control spawning frequency?
	Is technology available to control spawning frequency?  Yes, some experimental success  Yes, regular success  No current success
	Is technology available to control spawning frequency?  Yes, some experimental success  Yes, regular success
13.	Is technology available to control spawning frequency?  Yes, some experimental success  Yes, regular success  No current success
13.	Is technology available to control spawning frequency?  Yes, some experimental success  Yes, regular success  No current success  Do not know
13.	Is technology available to control spawning frequency?  Yes, some experimental success  Yes, regular success  No current success  Do not know  What is the approximate frequency of spawning during spawning season?
13.	Is technology available to control spawning frequency?  Yes, some experimental success  Yes, regular success  No current success  Do not know  What is the approximate frequency of spawning during spawning season?  < Weekly
13.	Is technology available to control spawning frequency? Yes, some experimental success Yes, regular success No current success Do not know What is the approximate frequency of spawning during spawning season? < Weekly Weekly Monthly
13.	Is technology available to control spawning frequency? Yes, some experimental success Yes, regular success No current success Do not know What is the approximate frequency of spawning during spawning season? < Weekly Weekly Monthly Multiple times annually but < monthly
13.	Is technology available to control spawning frequency? Yes, some experimental success Yes, regular success No current success Do not know What is the approximate frequency of spawning during spawning season? < Weekly Weekly Monthly

15. If egg produ	ction is less than year rour	iu, what is the	1	•	
16. What is the	optimal temperature range	for conditioning	ng broodstoo	k (if known)? S	Specify C or F degr
17. What is the	optimal salinity range (ppt)	for conditioning	ng broodstoo	k (if known)?	
	, , , ,			,	
18 Are there "u	nique" water quality require	ements? (e a	hardness s	ensitivity to hea	avv metals)
1017110 111010 14					ary motalo,
10. Are commo	sially produced by address	, diata baina u	and2		
	cially produced broodstock	k diets being u	sed?		
19. Are comme	cially produced broodstock	k diets being u	sed?		
	cially produced broodstock	k diets being u	sed?		
Yes	cially produced broodstock	k diets being u	sed?		
Yes No	cially produced broodstock	k diets being u	sed?		
Yes No Do not know	cially produced broodstock			cially produced	broodstock diets?
Yes No Do not know				cially produced	broodstock diets?
Yes No Do not know  20. Is there a ne				cially produced	broodstock diets?
Yes  No  Do not know  20. Is there a ne  Yes  No				cially produced	broodstock diets?
Yes  No  Do not know  20. Is there a ne  Yes				cially produced	broodstock diets?
Yes No Do not know  20. Is there a ne Yes No Do not know		species-speci	fic, commerc		broodstock diets?
Yes No Do not know  20. Is there a ne Yes No Do not know	ed for the development of	species-speci	fic, commerc		broodstock diets?
Yes  No  Do not know  20. Is there a ne  Yes  No  Do not know  21. Is there relia	ed for the development of	species-speci	fic, commerc		broodstock diets?

22. What type of feed is	s useu?
Moist	Fresh (live or frozen)
Dry sinking	Generic off the shelf dried feed
Dry floating	Species specific feed
Dry slow-sinking	Do not know
23. What are the typical	I protein and lipid percentages for the diet?
Protein - Fill in:	Protein and lipid percentages for the diet:
Lipid - Fill in:	
Write 'Do Not Know' if you do not know:	
	isease concerns that need to be addressed?
Yes (specify below)	
No	
On not know	
If yes, please specify:	
	rapeutics (drugs or chemicals) being used?
Yes (specify below)	
No	
No Do not know	
On not know	accines or therapeutics are being used:
On not know	accines or therapeutics are being used:
On not know	accines or therapeutics are being used:
Do not know	accines or therapeutics are being used:
Do not know	accines or therapeutics are being used:
On not know	accines or therapeutics are being used:
On not know	accines or therapeutics are being used:
On not know	accines or therapeutics are being used:

Hatchery	
26. At what stage of development is the hatchery an  Non-existent Experimental Technically feasible Commercial Do not know  27. What is the length of the larval stage? Fill in, special Wild harvested plankton (includes phytoplankton and zooplankton) Ciliates Copepods	
Other (please specify)	
Other (piedase speedily)	
29. What type of weaning diet is used?  Generic dry commercial feed  Species specific dry commercial feed  Live feed  None	
Do not know	
Other (please specify)	

O No	
No No	
Do not know	
If yes, please specify	
31. Are vaccines or therapeutics (drug	s or chemicals) being used?
Yes (specify below)	
○ No	
Oo not know	
If yes, please name please name which vaccine	es or therapeutics are being used:
32. What is the optimal temperature ra	nge for raising larvae (if known)? Specify C or F degrees.
32. What is the optimal temperature ra  33. What is the optimal salinity range (	
	ppt) for raising larvae (if known)?
33. What is the optimal salinity range (	ppt) for raising larvae (if known)?
33. What is the optimal salinity range (	ppt) for raising larvae (if known)? quirements?
33. What is the optimal salinity range (	ppt) for raising larvae (if known)? quirements?
33. What is the optimal salinity range (  34. Are there "unique" water quality red  35. From where are eggs and larvae o	ppt) for raising larvae (if known)? quirements?  btained?

36. What is the typical survival realized from eggs to	metamorphosed juveniles?	
<1%	31-50%	
1-5%	>50%	
6-10%	On not know	
11-30%		

ırsery	
37. Where are juvenile fish available from?	
Research hatchery	Outside the US
State hatchery	Not available
Private hatchery	Do not know
38. What is the principal type of system used?	
Recirculating	Cages
Flow through	Net pens
Pond	Do not know
Other (please specify)	
No Do not know  If yes, please specify:	
40. Are vaccines or therapeutics (drugs or chemicals	) being used?
Yes (specify below)	
No	
On not know	
If yes, please name please name which vaccines or therapeutics	are being used:
41. What is the optimal temperature range for raising	juveniles (if known)? Specify C or F degrees.

43. Are there "unique" water quality re	equirements?
44. Is commercially produced feed av	vailable?
Yes	
○ No	
Do not know	
45. If available, is the feed reliable an	nd cost effective?
Yes	
No	
Do not know	
46. What type of feed is used?	
Commercial moist	Fresh (live or frozen)
Commercial dry sinking	Generic off the shelf dried commercial feed
Commerical dry floating	Species specific commercial feed
Commerical dry slow-sinking	Do not know
47. What are the typical crude proteir	n and lipid contents (percentages) for the diet?
Protein - Fill in:	
Lipid - Fill in:	
Write 'Do Not Know' if you	

# [White Seabass] Marine Finfish Aquaculture Workshop Survey Growout 48. What is most common commercial size for market? Specify unit. 49. Is the species reaching sexual maturity before market size? Yes No Do Not Know If yes, are there impacts of sexual maturation on production characteristics or product quality (e.g., behavior, flesh quality, food conversion)? 50. What is the grow-out time (egg to market) to this commercial size? Less than 12 months 12-18 months 18-24 months Do not know Other (please specify) 51. What type of system is used? Recirculating tank system Cages Flow-through tanks net pens

# Do not know Ponds Other (please specify)

Yes						
O No						
Oo not know						
If yes, please specify						
53. Are vaccines o	therapeutics (drug	s or chemicals) b	peing used?			
Yes (specify below	<i>y</i> )					
No						
Oo not know						
If yes, please name ple	ase name which vaccine	es or therapeutics ar	e being used:			
54. What is the opt	imal temperature ra	nge for growout	(if known)? Sp	ecify C or F	degrees.	
54. What is the opt	imal temperature ra	nge for growout	(if known)? Sp	pecify C or F	degrees.	
				pecify C or F	degrees.	
	imal temperature ra			pecify C or F	degrees.	
				pecify C or F	degrees.	
				pecify C or F	degrees.	
55. What is the opt		ppt) for growout		pecify C or F	degrees.	
55. What is the opt	imal salinity range (	ppt) for growout		pecify C or F	degrees.	
55. What is the opt	imal salinity range (	ppt) for growout		pecify C or F	degrees.	
55. What is the opt	imal salinity range (	ppt) for growout quirements?		pecify C or F	degrees.	
55. What is the opt	imal salinity range (	ppt) for growout quirements?		pecify C or F	degrees.	
55. What is the opt  56. Are there "uniq  57. Is commercially	imal salinity range (	ppt) for growout quirements?		pecify C or F	degrees.	

58. If available, is the	feed reliable and cost effe	ctive?
Yes		
No		
Oo not know		
59. What type of feed	is used?	
Commercial moist		Fresh (live or frozen)
Commercial dry sinkii	ng	Generic off the shelf dried feed
Commerical dry floati	ng	Species specific commercial feed
Commerical dry slow-	sinking	Do not know
60. What are the typic	al crude protein and lipid o	contents (percentages) for the diet?
Protein - Fill in:		
Lipid - Fill in:		
Write 'Do Not Know' if you do not know:		
do not know:		

## **Market / Business Characteristics**

Experimental	
Technologically feasible	
Commercially ready	
Commercially produced	
Do not know	
62. Is the species on the marke	t as an aquaculture species?
Yes	
No	
Do not know	
63. What is the typical product	orm?
Live	
Whole	
Fillet	
Steak	
Do not know	
Other (please specify)	
64. Preferred market size whole	fish from the farm?
< 1 lb	2-3 lb
1-1.5 lb	> 3 lb
1.5-2 lb	Oo not know

65. What is the general perceived market value?				
High value				
Mid value				
Low value				
On not know				
66. What is the production supply to serve t	66. What is the production supply to serve the current market?			
Experimental				
Adequate				
Not available year round				
Available year round				
Do not know				
67. What is the geographic location of this n	narket?			
Domestic, Local	Foreign, Export to a small array of countries			
Domestic, Regional	Foreign, Export to a large array of countries			
Domestic, National	Do not know			
68. What is the source and level of competition in the market place?				
Limited	Foreign			
Moderate	Aquaculture			
Substantial	Commercial fishery			
Domestic	Do not know			
69. Is there a comprehensive economic analysis for the different stages of production of the species?				
Yes, Current				
Yes, Outdated				
No, there is no analysis available				
On not know				

70. Is there a comprehensive market analysis for this species?	
Yes, Current	
Yes, Outdated	
No, there is no analysis available	
Do not know	

## General

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71. Are there existing U.S. aquaculture farms	·
Yes, experimental/pilot scale	Yes, large scale
Yes, small scale	No
Yes, medium scale	Do not know
72. Are there existing aquaculture farms outsi	de the U.S. for this species?
Yes, experimental/pilot scale	Yes, large scale
Yes, small scale	No
Yes, medium scale	Do not know
73. Are you working on this species?	
Yes, Experimentally	
Yes, Commercially	
No	
Do not know	
74 Ann ath an anadian a ith this an air 0	
74. Are others working with this species?	
Yes, Experimentally	
Yes, Commercially	
No	
Do not know	
If yes (experimentally or commercially), please deta	ail:
75. Is there technical support to assist in the s	successful farming of the species?
Yes, Cooperative Extension Service	Yes, Private Consultants
Yes, Regional/State/Federal Agency	No
, ,	To the second se

76. Are there any impediments to realizing production increases for this species?		
Yes		
○ No		
Oo not know		
77. If yes, what are the impediments?		
Feed Availability	Public image or social license	
Water resources	Outreach	
Land resources / conflicts	Technical expertise and assistance	
Land Costs	Capitalization issue (bank loans / insurance)	
Energy Costs	Stable market/demand	
Multiple user conflict	Market Price	
Federal / state regulations	Do not know	
78. Is there an overall need for		
A National Aquaculture Office in Washington, D.C	<i>.</i>	
A new domestic policy review of aquaculture and development at the federal level	its future	
An aquaculture caucus for strong advocacy at the congressional level		
Federally established organic aquaculture standa	urds	
Periodic meetings of the United States Aquacultur Washington, D. C.	re Society in	
Other (please specify)		