

Whole Shellfish Farm Evaluation Tool

To be used in conjunction with the relevant Food Alliance shellfish inspection tool.

Operation Name:	
Address:	
Evaluation Date:	
Evaluator/Inspector:	

To become Food Alliance Certified and market shellfish products with Food Alliance's certification seal, an operation must:

- 1. Comply with all fixed criteria for Food Alliance Certified shellfish
- 2. Score an average of 3.0 out of 4 overall in each of the six scored criteria areas.

Fixed Criteria for Food Alliance Certified shellfish

- 1. No genetically modified organism (GMO) breeds are used and no cloned animals are used. (Triploid animals are not considered GMO, as no genes are introduced.)
- 2. No prohibited pesticides are used.
- 3. No growth-promoting hormones or other growth promotants are used.
- 4. No antibiotics are used.
- 5. Shellfish intended for further grow-out, hardening or relay may be moved from one farm to another if both operations are Food Alliance certified.

Scored Criteria

1. Fish and Wildlife Habitat Conservation

Continuing Education for Fish and Wildlife
Habitat Conservation
Habitat Conservation Improvements
Invasive Species Management
Nuisance Species Management
Threatened and Endangered Species
Management

Genetic Integrity of Native Shellfish Fish and Wildlife Food, Cover, Habitat Structure and Water Linking Together Individual Wildlife Habitat Conservation Activities

2. Healthy and Humane Care for Shellstock

Planting and Production Plan Carrying Capacity Management Disease Prevention and Management Transportation (Nursery and Growout) Hazard Reduction and Sanitation (Growout)

3. Shared Resource Management

User Relations Farm-site Boundaries Marine Operations and Navigation Farm Equipment Maintenance and Material Reduction

4. Soil and Water Conservation

Continuing Education for Soil and Water Resource Conservation

Buffer Strips/Sensitive Habitats Upland/Near-Shore Resource Management

5. Integrated Pest, Disease and Weed Management, and Pesticide Risk Reduction

Continuing Education for Reducing Pesticide/Herbicide Usage (Upland and

Aquatic)

IPM Planning (Upland)

Site Monitoring/Field Scouting (Upland)

Weather Monitoring

Lowest Effective Application

Rates/Reducing Application Rates

(Upland)

Pesticide Selection and Justification

Pesticide Record Keeping

Calibration of Application Equipment and

Pesticide Drift

Hazardous Material Storage (Upland)

Food Alliance Prohibited Pesticide List

6. Safe and Fair Working Conditions

Minors, Children and Family Members in the Workplace

Grievance Procedures and Policies
Recognizing and Supporting Employee
Input for Workplace Improvement

Farm Worker Support Services

Discipline Process

Nondiscrimination Policy

Hiring Practices and Communication of

Expectations and Polices

Work Force Development and New Skills Training Compensation Practices

Employee Benefits

Worker Housing and Family Support Services

Pesticide Handler/Applicator Safety

Hazardous Materials Emergency Management

Sanitation General Safety

TABLE OF CONTENTS

INSTRUCT	IONS FOR USE	5
FIXED CRI	TERIA	
	No GMO breeds or cloned animals used	
	No prohibited pesticides used	
	No growth-promoting hormones or other growth promotants used	
	No antibiotics are used	
	Continual improvement	
SCORED C	CRITERIA	
	WILDLIFE HABITAT CONSERVATION	
LIQU AIND	Continuing Education for Fish and Wildlife Habitat Conservation	
	Habitat Conservation Improvements	9
	Invasive Species Management	
	Nuisance Species Management	12
	Threatened and Endangered Species Protection (upland and aquatic)	
	Fish and Wildlife Food, Cover, Habitat Structure, and Water	
	Linking Individual Wildlife Habitat Conservation Activities Together	
HEALTHY A	AND HUMANE CARE FOR SHELLSTOCK	
	Planting and Production Plan	
	Carrying Capacity Management	
	Transportation (nursery and growout)	
	Hazard Reduction and Sanitation (growout)	
SHARED F	RESOURCE MANAGEMENT	21
011/11/201	User Relations	
	Farm-site Boundaries	22
	Marine Operations and Navigation	
	Farm Equipment Maintenance and Material Reduction	23
SOIL AND	WATER CONSERVATION	
	Continuing Education for Soil and Water Resource Conservation	
	Buffer Strips/Sensitive Habitats	
	Upland/Near-Shore Resource Management	
INTEGRAT	ED PEST, DISEASE AND WEED MANAGEMENT, AND PESTICIDE RISK REDUCTION	
	Continuing Education for Reducing Pesticide/Herbicide Usage (upland and aquatic)	
	IPM Planning (upland)	
	Site Monitoring / Field Scouting (upland)	
	Lowest Effective Application Rates/Reducing Application Rates (upland)	
	Pesticide Selection and Justification (upland)	
	Pesticide Record Keeping	30
	Calibration of Application Equipment and Pesticide Drift	
	Hazardous Material Storage (upland)	
	Food Alliance Prohibited Pesticide List	
SAFE AND	FAIR WORKING CONDITIONS	
	Minors, Children and Family Members in the Workplace	
	Grievance Procedures and Policies Recognizing and Supporting Employee Input for Workplace Improvement	
	necognizing and ouppoining employee input for workplace improvement	3 <i>1</i>

Farm Worker Support Services	37
Discipline Process	
Nondiscrimination Policy	
Hiring Practices and Communication of Expectations and Policies	
Work Force Development and New Skills Training Compensation Practices	
Employee Benefits	
Family Support Services and Worker Housing	
Pesticide Handler/Applicator Safety	
Hazardous Materials Emergency Management	
Sanitation	
General Safety	44
SCORECARD	46
FISH AND WILDLIFE HABITAT CONSERVATION	46
SCORE/LEVEL	46
HEALTHY AND HUMANE CARE FOR SHELLSTOCK	46
SCORE/LEVEL	46
SHARED RESOURCE MANAGEMENT	46
SCORE/LEVEL	46
SOIL AND WATER CONSERVATION	47
SCORE/LEVEL	47
NTEGRATED PEST, DISEASE AND WEED MANAGEMENT, AND PESTICIDE RISK REDUCTION	47
SCORE/LEVEL	47
SAFE AND FAIR WORKING CONDITIONS	48
SCORE/LEVEL	48
EVALUATION SUMMARY	49
ACKNOWI FDGFMFNTS	50

Instructions for Use

- 1. Production practices are evaluated according to Food Alliance criteria (listed on the next page of this document) and then ranked in a 4-step process from Level 1 to Level 4. Points are only earned for the highest level achieved.
- 2. Scoring partial points is allowed. Example: Half of a farm operation has its sensitive habitats plotted yearly using detailed maps that are accompanied with site photography and qualitative sampling, a Level 4 practice. You may score 3.5 points or half the increase between Level 3 and Level 4 as a result.
- 3. No points are earned for a criterion that is not applicable (N/A) to the operation or region.
- 4. For producers/managers reviewing this evaluation tool: The scorecard at the end of this document identifies the minimum number of points required for consideration of certification. This is only a guideline for your use and does not guarantee acceptance of your application.
- 5. Inspectors should make notes on each criterion describing how they arrived at decisions, including means used to verify all specific producer/manager claims. These notes will provide important background that will be carefully considered in the final certification decision. A section for notes is also included at the end of this document. Please make note of any criterion that were deemed not applicable and the reason for that decision. Also include any effective management practices implemented by the producer/manager that are not listed in this inspection tool.

Note: Recordkeeping is an important facet of Food Alliance certification. Individual recordkeeping needs to work for an operator and their situation. Inspectors must feel confident that the method in which a producer/manager keeps records is adequate for Food Alliance certification. Food Alliance requires producers/managers to commit to specific improvement goals based on the site inspector's scores of the certification standards.

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Fixed Criteria

No GMO breeds or cloned animals used

Check the following as applicable: ☐ There are no GMO breeds or cloned animals produced on the farm. ☐ GMO breeds and/or cloned animals are produced on the farm, but they are not produced or sold as a Food Alliance-Approved product. ☐ If GMO or cloned animals are produced on the farm, please list them here:
 Check the verification method used: ☐ Records show the breeds produced. These are non-GMO or cloned varieties/breeds. ☐ There are currently no GMO and/or cloned varieties for the breeds produced. ☐ Producer/manager describes GMO and/or clone use (if any) and labeling/marketing during interview. ☐ Other (please specify):
☐ Criteria met. ☐ Criteria not met.
Comments:
No prohibited pesticides used
 Check the following as applicable: □ Pesticide records indicate that none of the pesticides listed in the Reducing Pesticide Usage section are used on this operation. □ Other (please specify):
Check the verification method used: ☐ Visual inspection of hazardous material storage confirms no presence of prohibited pesticides. ☐ Other (please specify):
Criteria met.
Criteria not met.
Comments:

Note: Hormones are not currently used in shellfish production. Check the following as applicable: ☐ Growth-promoting hormones or other growth promotants are not used in shellfish production on the ☐ Growth-promoting hormones or other growth promotants are used on the farm. Check the verification method used: ☐ Veterinary and/or production records are complete and show no use of hormone implants or use of other growth promotants. ☐ Visual inspection of storage area/buildings and animals confirms no use of hormone implants. ☐ Other (please specify): ☐ Criteria met. Criteria not met. Comments: No antibiotics are used1 Note: Antibiotics are not currently used in shellfish production. Probiotics are not considered antibiotics and their use is allowed. Check the following as applicable: \square Antibiotics are not used in shellfish production on the farm. ☐ Antibiotics are used on the farm. If checked, please list antibiotics here and how they are administered: Check the verification method used: ☐ Production records demonstrate no antibiotics used. ☐ Visual inspection of storage area/buildings confirms no feed additive (sub-therapeutic) antibiotics used. ☐ Producer/manager attests to production without antibiotics during interview. ☐ Other (please specify): Criteria met. Criteria not met. Comments:

No growth-promoting hormones or other growth promotants used

Moving Shellfish

Note: Shellfish intended for further grow out, hardening or relay may be moved from one farm to another if both operations are Food Alliance Certified.
Check the following as applicable: ☐ Shellfish are not moved between farms. ☐ Shellfish are moved between farms, and both farms are Food Alliance Certified. ☐ Shellfish are moved between farms and not all farms are Food Alliance Certified.
Check the verification method used: ☐ Production records indicate shellfish are moved between farms. ☐ Production records indicate shellfish are not moved between farms. ☐ Copies of letters of certification for all farms are on hand. ☐ Other (please specify):
☐ Criteria met. ☐ Criteria not met.
Comments:
Continual improvement
Check the improvement goals (for renewal applications only). Producer/manager has completely implemented improvement goals. Producer/manager demonstrates significant progress towards meeting goals. Producer/manager attempted to implement goal but concluded it was unattainable or impractical. Producer/manager must provide supporting documentation for this conclusion. Producer/manager has made no significant progress towards meeting goals. Producer/manager has not attempted to meet goals. Other (please specify):
☐ Criteria met ☐ Criteria not met
Comments:

Scored Criteria

Fish and Wildlife Habitat Conservation

Continuing Education for Fish and Wildlife Habitat Conservation

Note: Wildlife habitat includes both terrestrial and aquatic areas. The intent of this section is to raise awareness with operators, looking at the farm owner as a land steward.

Level 1: Manager demonstrates little or no knowledge about fish and wildlife habitat or threatened/endangered species conservation. Current operation reflects this knowledge gap with no special planning or action considered to prevent activities from interfering with non-farmed aquatic species, wildlife, or natural areas (if present).

Level 2: Manager relies on general interest publications (newspapers and general newsletters, etc.) to learn about fish and wildlife and habitat issues. During the certification process, manager demonstrates a basic understanding of the issue area. Actions are limited to preventing farming activities from interfering with natural areas.

Level 3: Manager uses technical, subject matter-specific information sources or participates in seminars for habitat management, identification of habitat types or native vegetation, fish or wildlife management, etc. The manager can discuss fish and wildlife and habitat issues and communicates knowledge of: (At least 4 of the following apply.) ☐ General habitat management ☐ Native plants ☐ Native animals ☐ Invasive or exotic plants and animals ☐ Sensitive, priority habitat ☐ Endangered or at-risk species ☐ Migratory species ☐ SAV habitat ☐ Aquatic ecosystems ☐ Other (please specify): **Level 4:** As per level 3 and a total of 5 options from Level 3 apply. Manager documents direct participation (or has participated in the last 5 years) in on-farm studies/testing of environmental interactions, and wildlife and aquatic habitat conservation strategies or concepts to evaluate their performance. Score:

Verification methods and notes:

Habitat Conservation Improvements

Level 1: Upon inspection, the farm manager has made no apparent improvements related to fish and wildlife habitat or gives no special consideration to the natural areas under his/her control.

Level 2: Upon inspection, the farm has made at least one improvement on the uplands or aquatic lands. Check below as appropriate (i.e., small farms may not be able to invest in habitat or may not have

 □ Leaves standing deadwood as bird habitat. □ Established native vegetation along unused upland areas. □ Addressed terrestrial and aquatic habitat in a comprehensive farm plan. □ Uses native plants to landscape around buildings. □ Engages in practices that reduce or limit the impact of farm operations on native eelgrass. □ Engages in practices that reduce or limit sediment transport (e.g., For manila clams, low profile mechanical harvest limits impacts to first 8" of sediment). □ Limits disturbances to fish and wildlife breeding areas especially during reproductive periods. □ Other (please specify):
Level 3: As per Level 2, and a total of 2 options from Level 2 apply. In addition, at least one of the following apply (allowance given for investments on small farms less than 35 acres with no natural areas). ☐ Participates in set-aside programs similar to the Conservation Reserve Program (CRP) or other, and manages this area for habitat potential (e.g., Native oyster restoration). ☐ Participates in programs such as the Wildlife Habitat Incentives Program (WHIP) or Environmental Quality Incentives Program (EQIP) to conserve wildlife habitat. ☐ Has set aside and not converted priority habitat and manages to protect the habitat value of this area. This area accounts for at least 5% of their total uplands and or aquatic lands. ☐ Established a new natural area in the last 10 years. ☐ Increased habitat values of upland, tidelands and/or their interface for mobile species (e.g., salmon, surf smelt). ☐ Established habitat corridors between SAV areas (e.g., native eelgrass). ☐ Linked habitat conservation activities to other landowners, possibly as a part of a regional conservation plan. ☐ Other (please specify):
Level 4: As per Level 3, with a total of 4 items checked from Level 2, and a total of 2 or more checked from Level 3.
Score:
Verification methods and notes:
Invasive Species Management
Note: Naturalized and accepted species by federal and state/provincial governments (e.g., pacific oyster, manila clam, Japanese scallop) are not considered invasive for the purposes of this evaluation criteria.
Level 1: Manager can show they rely on state or federal regulations for movement controls of shellfish for invasive species prevention and control. Purchased seed only comes from nurseries or hatcheries that have all required state/provincial and federal certification records. Otherwise, manager neither prevents establishment of, nor systematically controls, invasive species, and is not informed about the issue. Check as applicable: Manager deals with crop production problems stemming from invasive species as they are encountered and/or as time permits.
 ☐ State/provincial and/or federal transfer permits are obtained where applicable. ☐ Manager has no invasive species management plan or systematic inventory of invasive species. ☐ Manager does not have or communicate knowledge of invasive species or how to identify them.

	Farm records, if records are kept, do not refer to invasive species and are not used for improvement of invasive species problems. Other (please specify):
commoi invasive	Manager communicates some knowledge of potential invasive species and can identify most in species. Manager also complies with federal and state/provincial transfer rules. Control of especies involves the following limited prevention strategies. Three of the following apply: Manager not only abides by, but can describe the following state/provincial and federal laws and management practices: State/provincial and/or federal transfer permits requirements. New and/or existing species source or new species importation requirements. All materials used (bags, shell, etc.) in the aquatic environment are sterilized/sanitized (e.g., dried and/or cleaned on an upland site) prior to transfer to a new invasive species control area. Manager can describe their invasive species management system, detailing some knowledge of existing problems. Manager communicates understanding of the existing problem extends beyond the production system and into upland and buffer areas. Manager has and communicates some knowledge of invasive species life history and vulnerabilities to avoid introduction. Other (please specify):
followin	As per Level 2, and actively prevents introduction and spread of invasive species. At_least 3 of the gapply): Manager has a written policy or protocol for invasive species management, with inventory of existing problems. Steps are taken to eradicate invasive species while not harming the habitat and populations of natural species by employing tactics such and fresh or saline water dipping, spraying or rinsing, and/or hand harvest. Manager communicates knowledge base of invasive species in the area and demonstrates the ability to identify with some life history knowledge. Manager keeps long-term control-efficacy records to improve avoidance or control program. Manager seeks additional knowledge to assist with control program effectiveness. When applicable, manager works with state/provincial and federal agencies (e.g., Dept. of Natural Resources, Dept. of Agriculture, Dept. of Fish and Wildlife, Dept. of Fisheries and Oceans) to develop and implement control plans. Manager discusses problems with neighbors to increase effectiveness of the control effort. Other (please specify):
includin establis	As per Level 3, and manager has an advanced understanding of IPM principles and application, ag bio-control and transfer limitations, and clearly manages the operation to prevent the shment of invasive species, <i>or</i> , no invasive species are on the farm. At least 4 of the following apply: Manager has systematic inventory of invasive species occurrences. Invasive species are a high priority in overall operation as reflected in farm plans and records. Manager has advanced knowledge of life cycles and control is performed at the most effective time. With noxious plants, manager has planned re-vegetation with desirable plants to gain control of uplands. Manager uses only local broodstock triploid shellfish or harvests shellfish prior to known reproduction periods when growing native species in proximity to wild populations. Manager uses predators of invasive species and other bio-control methods sanctioned by state/provincial and federal agencies. Manager evaluates program each year for effectiveness using his/her own comprehensive control efficacy records. Farm areas clearly show results of this comprehensive invasive species management program.

 Manager actively tries to coordinate with neighbors in control efforts that have an impact on the wider general area by developing a written coordinated plan. Other (please specify):
core:
erification methods and notes:
uisance Species Management
ote: These include native aquatic species, such as sea stars, starfish, and moon snails, wildlife such as coter ducks and seals, and fouling organisms such as barnacles.
evel 1: Producer/manager controls nuisance species with no regard to other adverse effects. roducer/manager can show compliance with federal and state/provincial harvest/take rules but therwise is not informed about the issue. Check as applicable:
 Manager deals with crop production problems stemming from nuisance species as they are encountered and/or as time permits. Manager has no nuisance species management plan or systematic inventory of nuisance species.
Manager controls nuisance species via widespread eradication.Other (please specify):
evel 2: Producer/manager communicates some knowledge of potential nuisance species. Control of uisance species involves the following limited prevention strategies. At least 1 of the following applies: □ Producer/manager can describe their nuisance species management system, detailing some knowledge of existing problems.
 □ All materials used in the aquatic environment (bags, shell, etc.) are sterilized/sanitized (e.g., dried and/or cleaned on an upland site) prior to transfer to a new nuisance species control area. □ Inventory of nuisance species problem extends beyond the production system and into upland
 and/or buffer areas. Producer/manager has knowledge of nuisance species life history and vulnerabilities to avoid infestation. Other (please specify):
 evel 3: As per Level 2 and producer/manager actively prevents introduction and spread of invasive pecies. At least 2 of the following apply: Producer/manager establishes a written policy or protocol for nuisance species management with inventory of existing problems.
 Steps are taken to deal with nuisance species by employing devices to lessen their effect (predator protection devices, fencing, etc.).
\square Steps are taken to deal with nuisance species by employing tactics such as fresh or saline water
dipping, spraying, or rinsing. □ Producer/manager communicates knowledge of nuisance species in the area and demonstrates
the ability to identify with some life history knowledge. □ Producer/manager keeps long-term control efficacy records to improve avoidance or control
 program. Producer/manager seeks additional knowledge (through seminars, publications, conferences, etc.) to assist with avoidance or control program effectiveness.

 Producer/manager works with state/provincial and federal agencies (e.g., Dept. of Natural Resources, Dept. of Agriculture, Dept. of Fish and Wildlife, Dept. of Fisheries and Oceans) to develop and implement avoidance or control plans. Producer/manager discusses problems with neighbors to increase effectiveness of the control or avoidance effort. Other (please specify):
Level 4: As per Level 3 and a total of at least 3 options from Level 3 apply. Producer/manager (or outside interest) harvests the nuisance species for profit, recreation, or food source.
or
As per Level 3 and a total of at least 3 options from Level 3 apply. Producer/manager has an advanced understanding of IPM principles and application, including bio-control and clearly manages the operation to lessen the effects of nuisance species. At least 3 of the following apply: Producer/manager has systematic yearly inventory of nuisance species occurrences. Producer/manager has advanced knowledge of life cycles and control/avoidance is performed at most effective time. Producer/manager adjusts farm operations to avoid interactions with nuisance species. Producer/manager uses predators of nuisance species and other bio-control methods sanctioned by state/provincial and federal agencies. Producer/manager evaluates program each year for effectiveness using his or her own comprehensive control efficacy records. Farm areas clearly show results of this comprehensive nuisance species management program. Producer/manager actively tries to coordinate control efforts with neighbors that have an impact on the wider general area by developing a written coordinated plan. Other (please specify):
Score:
Verification methods and notes:
Threatened and Endangered Species Protection (upland and aquatic)
Level 1: Producer/manager exhibits no knowledge of threatened and endangered species (locally found species listed in state/provincial or federal record) and possesses no ability to identify them in the field. Current operation reflects this knowledge gap, with no special planning or action considered in management of the habitat/natural areas under his/her control beyond what is required by law.
 Level 2: Producer/manager communicates some knowledge of habitat on farm or in nearby areas from general interest publications (newspaper, newsletter, etc.). At least 2 of the following apply: □ Producer/manager discusses major threatened and endangered species issues, identifying those species found in the locality with depth of knowledge consistent with general interest publications. □ Producer/manager identifies people, organizations, and information sources available to increase knowledge base of threatened and endangered species issues. □ Management in place for the protection of threatened and endangered species/habitat is limited to leaving it alone and keeping agricultural production from interfering.

 □ Management has plan in place to notify local NMFS and USFW offices if/when any injury or death ("take") of endangered or threatened species (e.g., marbled murrelets, bull trout, southern distinct population segment green sturgeon) occurs. □ Other (please specify):
Level 3: As per Level 2 and a total of at least 3 options from Level 2 apply. Producer/manager can identify natural areas/habitat on the farm suitable for locally listed threatened and endangered species and protects the habitat. Producer/manager has written copies of applicable permits and other documents relating to listed species from the U.S. Army Corps of Engineers and other regulatory agencies and tribal entities. Producer/manager communicates some technical knowledge of threatened and endangered species and critical habitat. At least 2 of the following apply: Threatened and endangered species conservation is addressed in general management plan and specific actions are taken to maintain their presence on the land. Farm work is designed not to impact threatened and endangered species habitat areas. Habitat appears healthy. Producer/manager can identify and/or locate habitat where threatened and endangered species occur on the farm. Producer/manager works with state/provincial and federal agencies (e.g., Dept. of Natural Resources, Dept. of Agriculture, Dept. of Fisheries and Oceans) to protect threatened and endangered species habitat. Other (please specify):
 Level 4: As per Level 3 and a total of at least 3 options from Level 3 apply. Producer/manager has obtained subject matter specific technical information about how to judge the threatened and endangered species/critical habitat health and/or quality. At least 3 of the following apply: Producer/manager has attended seminars or lectures on threatened and endangered species protection. Producer/manager knows both why and when threatened and endangered animals are present on the farm. Producer/manager has determined how threatened and endangered species welfare might be improved. Farm management plans consider reproductive and migration times of threatened and endangered
 species. Producer/manager establishes threatened and endangered species on habitat under their control. Participates in regional/state/provincial-wide effort to recover endangered species on/off farm. Producer/manager has engaged directly in actions on the farm or upland areas to provide or improve rearing, migratory, and/or spawning habitat(s) for threatened and endangered species. Other (please specify):
Score:
Verification methods and notes:

FA-ET-03 Whole Shellfish Farm Evaluation Tool Oct 2022

farm, and no steps are taken to minimize adverse effects on cover, habitat structure, and water or food resources for fish and wildlife. Level 2: Actions are taken to minimize adverse effects on wildlife food, habitat structure, cover, and water resources. At least 2 of the following apply: ☐ Producer/managers are knowledgeable of and follow all laws and permit requirements needed for their growing region. ☐ Vehicle traffic and farm activities around in documented reproductive areas are limited during migration and spawning times (e.g., Sand Lance and Surf Smelt). ☐ Beach driving is kept to a minimum and is only done on established singular routes and a plan is in place for when breakdowns occur. ☐ Beaching of vessels/water craft is kept to a minimum and is only done on established sites. Where beaching is repetitious such as off-loading, mooring, and haul-out sites, sites are established and used. ☐ Marine mammal interactions are limited only to necessary farm operations. ☐ Producer/manager communicates some knowledge of key regional and local species mostly from general interest publications (newspaper, etc.). ☐ Other (please specify): Level 3: A total of at least 4 apply from Level 2, and cultivated and non-cultivated areas are actively managed for the benefit of wildlife on a yearly calendar. At least 2 low-impact and at least 2 high-impact management practices apply: Low impact: ☐ Producer/manager can identify wildlife and plant species. ☐ Mesh opening on blanket netting is kept at maximum size to increase sediment access while still protecting the cultured product and reducing entanglement of wildlife. ☐ Netting is evaluated and maintained/repaired on a regular schedule. ☐ Producer/manager communicates an understanding of wildlife corridors. ☐ Standing deadwood is left for birds to use. ☐ Native upland vegetation is preserved and promoted. ☐ Designated paths are used when repeatedly traversing through SAV habitats. High impact: ☐ Floating or raised blanket nets are not utilized so increased sediment access is provided to mobile species. ☐ Field borders/buffer strips are maintained for diverse habitat (SAV, shellfish, mudflat). ☐ Only non-lethal predator control methods are promoted and utilized. ☐ Submerged aquatic vegetation (SAV) is not disturbed during migration or reproductive times (e.g., herring) in documented spawning areas. ☐ Invasive non-native weeds are removed. \square Eelgrass buffer strips or patches/areas are left or promoted to connect wildlife corridors and to potentially increase spawning areas. ☐ Wildlife crops for food are planted (unprotected clams/oysters). ☐ Incidental take of non-target species is reduced by selective harvesting.

Level 1: Producer/manager communicates little or no knowledge about fish and wildlife on/around the

Level 4: As per Level 3, and a total of at least 3 high-impact options from Level 3 and a total of at least 3 low-impact options from Level 3 are used. Indicator species population information is tracked year-to-year to evaluate wildlife management strategies.

☐ Other (please specify):

☐ A written marine mammal interaction plan is in place.

Score:
Verification methods and notes:
Linking Individual Wildlife Habitat Conservation Activities Together
Note: Government projects are included in this criterion. Individual landowners may be leading the way for other producers without working with other landowners.
Level 1: Producer/manager is not involved with other landowners or state/provincial/federal agencies to link individual on-farm actions to larger landscape activities.
Level 2: Producer/manager participates in watershed councils, conservation, soil and water districts, or other landscape activities promoted by state/provincial/federal agencies, shellfish organizations, non-profits, or similar groups.
Level 3: Producer/manager has made habitat improvements in concert with nearby landowners or on their own to create large and/or connected patches of upland or tideland habitat.
Level 4: Producer/manager has made habitat improvements as a part of a regional plan that includes other landowners. At least 2 of the following apply: Watershed council plan Eco-regional plan (like those created by groups like The Nature Conservancy, etc.) Coordinated resource management plans Soil, conservation, and water district plans State/provincial-wide habitat/biodiversity plans Other (please specify):
Score:
Verification methods and notes:
Healthy and Humane Care for Shellstock
Planting and Production Plan
Level 1: No written or otherwise describable plan is in place to document farm density goals.
Level 2: Producer/manager has a very basic written production plan or can give a verbal description of the production plan. All the following apply: □ Plan describes planting densities and desired harvest densities.

	lan mentions animal growth and health but does not elaborate on aspects of predator protection r preferred planting weather/seasons.
\square N	fost detailed discussions in the plan deal with shellstock production and not resource
□P	nanagement. Ian calls for little monitoring of conditions (mortalities/natural recruitment), and such monitoring s done at irregular times.
knowledg with the c TI re TI Se U W	Producer/manager has a written production plan with considerable detail and has general ge of food utilization and water quality requirements of shellfish. The production plan deals only current year. All the following apply: he plan contains a discussion of the production goals and the short-term objectives needed to each these goals. he plan discusses density evaluations during harvest and how that information relates to future eeding activities. Vater quality conditions and resources are considered, and management is aware of the issue. ssential Fish Habitat (EFH) conditions and resources are considered and management is aware of the issue.
	iotoxin issues are considered and management is aware of the issue.
land man than ann TI re N U CC CC CC CC M M P	As per Level 3 and farm operates from a written production plan that addresses most culture and nagement issues and covers 3 years or longer with provisions for reviewing specific issues no less ually. At least 4 of the following apply: he plan contains a discussion of the long-term production goals and the objectives needed to each these goals. lutrients inputs and outputs are quantified for each production area. pland erosion conditions and resources are considered, and management is aware of the issue. ood community (detritus/phytoplankton/zooplankton) health and production issues are onsidered, and management is aware of the issue. Vildlife habitat conditions and resources are considered, and management is aware of the issue. dding certifiable growing areas or upgrading a current growing area is considered, and nanagement is aware of the issue (e.g., lowering fecal coliform contamination from uplands/ ratersheds). recision monitoring occurs at least once a year and information obtained is used to address roblems and improve the existing management plan.
Score:	
Verificatio	on methods and notes:
Carrving (Capacity Management
	c applies aply for raft or lang line culture systems where shallfish extend herizontally more than 2

Note: This applies only for raft or long-line culture systems where shellfish extend horizontally more than 3 feet into the water column.

Level 1: Possible localized carrying capacity effects are not monitored.

Level 2: On farm carrying capacity is considered a factor in farm management. Producer/ manager can verbally describe their seeding efforts, stocking densities, and growth averages and compare them with

regional or historical trends.

Level 3: As per Level 2 and growth, seeding, and density records are kept and evaluated to increase yield while addressing possible on-farm and adjacent farm carrying capacity issues raised by neighboring farm producer/managers. Producer/manager has documentation that their farm does not adversely affect neighboring wild or managed shellfish beds. This documentation needs to be location specific and must include one of the following: neighboring upstream and downstream phytoplankton levels, neighboring production/growth levels, and/or historical and current shellfish growth information for their water body.

Level 4: As per Level 3 and precision seeding is employed. After reviewing historical seeding, harvest

records and yearly growth surveys proper stocking densities are used. Floating farm sites are selected, and layouts are modified to provide increased flow in and out of the farm site. Producer/managers encourage, evaluate, and/or participate in studies of carrying capacity effects, nutrient cycling, and/or modern precision aquaculture practices. The results of these efforts are translated to farm practices that minimize off farm carrying capacity decreases.
Score:
Verification methods and notes:
Disease Prevention and Management
Level 1: Producer/manager relies only on state or federal regulations for movement controls of shellfish for shellfish infectious disease prevention and control. Producer/manager does not have any farm-specific requirements or programs for disease prevention or response. Producer/ manager is not informed about infectious shellfish disease risks. Check as applicable:
 Producer/manager deals with crop production problems stemming from shellfish infectious diseases as they are encountered and/or as time permits.
☐ Producer/manager has no response plan for disease outbreaks, or systematic inventory of shellfis infectious diseases.
 Producer/manager does not have, or cannot communicate, knowledge of disease signs or identification of moribund shellfish.
☐ Farm records, if records kept, do not refer to shellfish infectious diseases.

Level 2: Producer/manager communicates some knowledge of potential diseases and can identify most common disease signs visually. Producer/manager also complies with federal and state/provincial transfer rules. Purchased seed only comes from nursery or hatcheries that have all required state/provincial and federal certification records. Control of disease involves the limited prevention strategies below. At least 2 of the following apply:

tegies below. At least 2 of the following apply.
☐ Producer/manager not only abides by but also can describe the following state/provincial and
federal laws and management practices. All the following apply:
☐ State/provincial and/or federal transfer permits requirements.
□ New existing species source or new species importation requirements.
☐ Brood stocks or seed stocks, as applicable, are examined for state/provincial or federal
reportable diseases on a regular basis in compliance with applicable regulations.
\square All materials used in the aquatic environment (bags, shell, etc.) are properly dried and cleaned on
an upland site prior to transfer to a different disease control area or disposal site.
☐ Producer/manager has unwritten plans for response to infectious shellfish disease outbreaks.

☐ Other (please specify):

reportable shellfish infectious diseases in the region, their risks and ways to reduce those risks. Other (please specify):
 Level 3: As per Level 2 and a total of at least 4 options from Level 2 apply and actively prevents introduction and spread of invasive species and disease. At least 3 of the following apply: Producer/manager establishes a written policy or protocol designed to prevent establishment of applicable state/provincial and federal reportable shellfish diseases. Producer/manager and/or key staff participate in training, seminars or certification courses that deal with disease prevention and management. Producer/manager communicates knowledge base of infectious shellfish diseases in the area and can identify disease signs that are recognizable by visual examination, with some knowledge of disease risk factors. Producer/manager maintains stock certification and mortality records indefinitely. Producer/manager utilizes veterinary or other applicable shellfish health management professional service to support shellfish infectious disease control program. Producer/manager discusses problems with neighbors to increase effectiveness of the control effort. Other (please specify):
 Level 4: As per Level 3, and producer/manager has an advanced understanding of, and clearly manages the operation to prevent the establishment of disease. At least 3 of the following apply:
☐ Other (please specify): Score:
Verification methods and notes:
Transportation (nursery and growout)

Note: This covers on-farm and farm to market transport.

Level 1: Transportation equipment is in good repair to prevent injury and comply with regulations. Loading/transport equipment is managed to prevent injury. All the following apply:

 Overloading that will injure animals is prevented. Time to temperature requirements are followed and documented.
Level 2: As per Level 1 and temperature and weather conditions are factored into transportation to reduce thermal stress. Producer/manager can describe industry norms for transportation conditions.
Level 3: As per Level 2, and loading densities are closely managed so shellfish are not contained in densities that cause stresses (e.g., shell gape, mortality). Transportation temperatures are monitored (e.g., temperature logger/exposure tag in shipment) and noted/recorded.
 Level 4: As per Level 3 and producer/manager has written records of animal transportation to processing facilities including dates, numbers of animals transported, and conditions. Impacts of transportation on animals and the environment are minimized. At least 2 of the following apply: Transportation records are kept on site. On-farm production and direct marketing is promoted. Animal transport coordinated with other regional producers. Transport vehicles use sustainable bio-based fuels. Use is documented by transportation provider. Other (please specify):
Score:
Verification methods and notes:
Verification methods and notes: Hazard Reduction and Sanitation (growout) Note: This criterion covers Interstate Shellfish Sanitation Conference (ISSC) and subsequent National Shellfish Sanitation Program (NSSP) issues such as rainfall and biotoxin closures along with other health and sanitation issues.
Hazard Reduction and Sanitation (growout) Note: This criterion covers Interstate Shellfish Sanitation Conference (ISSC) and subsequent National Shellfish Sanitation Program (NSSP) issues such as rainfall and biotoxin closures along with other health

Level 3: As per Level 2 and access to some facilities (where appropriate), equipment, medicine, fuel, and

pesticide stores is limited to appropriate persons. All the following apply (where applicable):
 Pesticide and fuel storage is locked. Entrances to farm and facilities are appropriately marked and patrolled to discourage/prevent
unauthorized entry and/or movement of disease or contaminants into sensitive areas. (This
information is available in the HAACP plan.) □ Pesticide and/or fuel use is tracked in such a manner to ensure unauthorized use or spillage is
detected.
 Biosecurity measures are in place to prevent diseases from being transferred between farm holding facilities or to other farms and is available for review. Other (please specify):
— Other (pieuse specify).
Level 4: As per Level 3 and on-farm storage of hazardous materials is minimal or non-existent. At least 2 of the following apply:
 Animal health and preventative pest management is exceptional and very little pesticides are used.
 Producer/manager is involved in the ISSC program (attends meetings, reviews updates, is a committee member, etc.).
☐ Producer/manager actively participates in bacterial, biotoxin, or other forms of water quality and animal health sampling.
☐ Other (please specify):
Score:
Verification methods and notes:
Shared Resource Management
Note: These criteria are written to further improve cooperation and relations between upland owners (private, public and tribal) and aquatic farm managers, in addition to providing a clean and safe farm environment.
User Relations
Level 1: No effort is made to improve relations with other upland and water users.
Level 2: Producer/manager follows all treaty settlements and cooperates with local tribal agencies. Adjacent landowners and local Tribal agencies are notified of significant farming activities and relations are improved by following at least one low-impact and at least 3 high-impact management practices. Check all that apply:
Low Impact: □ Farm materials are of a color neutral or matching the environment unless these colors pose a risk to navigational safety.
□ Vessel speeds are reduced while near residences to reduce noise levels.

High Impact: ☐ Farm sites are monitored for excessive debris and debris is removed on a minimum quarterly basis. ☐ Large farm materials are marked to denote owner. ☐ Farm materials are de-fouled at remote locations to reduce the risk of odors affecting other users. ☐ Verbal communication and recreational radios are limited near residences. Farms display an appearance of being clean and orderly at upland, inter-tidal, and water-based areas. ☐ Upland parking of farm/employee vehicles is restricted to owned or owner-approved sites. ☐ Other (please specify):
 Level 3: As per Level 3 a plan is in place to clear debris from abandoned farm sites in a legally allowable manner, and producer/manager can describe plan and/or show documentation of plan. A total of 4 high-impact and 2 low-impact practices are used from Level 2. Additionally, plans are in place that include at least 2 of the following: Debris cleanup activities are organized on an annual to biannual basis. Adjacent properties are monitored for farm debris, and, where entry permission is granted, debris is removed in a timely manner. Farm tours are created for neighbors and the nearby community.
 □ Producer/managers allow upland neighbors direct beach/water access. □ Producer/managers allow neighbors to harvest managed/unmanaged stocks for consumption. □ Equipment noise reduction plans/procedures are put into place (sound suppression devices) □ Producer/manager contact information is easily accessible to the local community by farm signage or increased visibility at community events/meetings. □ Local agencies are notified that farm employees/vessels are available for assistance in times of marine emergencies. □ Crew-user relations training is provided via in-house or outside seminars, classes or workshops. □ Other (please specify):
Level 4: A total of 5 high impact and 3 low-impact practices from Level 2 apply. Additionally, a total of 4 practices are used from Level 3, and producer/managers attend and/or organize neighborhood/local meetings/events to address local concerns. Producer/managers can describe meeting objectives and results.
Score:
Verification methods and notes:
Farm-site Boundaries
Level 4. Little is done to accure former are incide level be under its

Level 1: Little is done to assure farms are inside legal boundaries.

Level 2: Copies of lease or ownership records of farm properties are held on site, and producer/manager consults those records to define farm boundaries.

Level 3: As per level 2 and farm boundaries are set using the most current and detailed descriptions/maps.

Level 4: As per Level 3 and modern survey methods such as GPS are employed to assess farm boundary locations.

Score:
Verification methods and notes:
Marine Operations and Navigation
Level 1: Producer/manager can show they comply with federal (Coast Guard) and state/provincial navigational standards/rules.
Level 2: As per Level 1, additional measures are employed to ensure safe navigation. Check all that apply: Plans are in place to provide rapid assistance for when vessels/watercraft breakdown. Anchors are properly sized and set to decrease movement of floating structures during normal and adverse weather conditions. Raised bottom culture activities are clearly marked to prevent crop, vessel, and personal injuries. Floating structures and shallow submerged items are clearly marked and maintained in an orderly and grouped fashion to reduce accidents during normal and adverse visibility conditions. Storm damaged structures are secured and remedied as quickly and safe as possible. Ground culture protection devices are properly secured to prevent loss and potential entanglement. Farm crews observe speed limits and reduce speeds near shores, other vessels, and users to avoid dangerous wave/wake conditions. Anchor lines are clearly marked or submerged. Other (please specify):
Level 3: A total of at least 3 apply from Level 2, and one or more of the following apply (if applicable): ☐ Speed limits are posted around floating facilities. ☐ Local/National safety agencies (that provide liability coverage) are notified that farm employees/vessels are available for assistance in times of marine emergencies.
Level 4: As per Level 3, and both options from Level 3 apply.
Score:
Verification methods and notes:
Farm Equipment Maintenance and Material Reduction
Level 1: Maintenance of farm equipment is done as problems occur, and material reduction is not a priority.
Level 2: Farm equipment is maintained on a regular basis and equipment and materials are managed by the following methods. At least 4 of the following apply: ☐ Materials are selected for their ease of reuse and durability. ☐ Prompt removal and proper upland disposal of unused and derelict culture materials. ☐ Equipment/Materials are secured to withstand severe weather events.

 □ Equipment is maintained to prevent spills and leaks and to improve efficiency. □ Materials/structures do not contain substances identified by the EPA as containing materials that can readily enter and harm the marine environment. (Pre-existing structures such as creosote pilings/dikes are exempt if put into place before 2008.) □ Treated lumber is not used in the construction of farm grow out or harvest structures. □ Plans are in place to provide rapid assistance for when vehicles/vessels/watercraft breakdown. □ Synthetic materials are collected during the harvest process and not left to re-enter the marine environment.
 Level 3: As per Level 2 and a total of at least 5 options from Level 2 apply, and at least 3 of following apply: Equipment is purchased based on its high efficiency, low emissions, and ease of maintenance. Plans are in place to address non-farm related spills to reduce the risk of adverse farm and environmental interactions. Biodegradable or food grade oils are used whenever possible/feasible. Composting of suitable wastes is employed whenever possible/feasible. Rechargeable battery use is encouraged in electronic devices and headlamps. Recycling programs are in place to reduce landfill waste. If antifouling paints are used, they do not contain marine toxins such as copper or organotin compounds.
Level 4: As per Level 3 with a total of at least 4 options from Level 3 apply. Farm efficiency is tracked to reduce the amount of resources and energy needed for production.
Score:
Verification methods and notes:
Soil and Water Conservation
Note: For the purposes of this evaluation criteria, the term "soil" is broadly defined as all aquatic sediments and tidelands as well as upland soils. Continuing Education for Soil and Water Resource Conservation
Continuing Education for Con and Water Resource Conscivation
Level 1: Producer/manager demonstrates little or no knowledge about soil and water resource conservation. Current operation reflects this knowledge gap, with no special planning or action considered to address carrying capacity, conserve uplands, protect water quality, and increase positive relations with other user groups.
Level 2: Producer/manager relies on general interest shellfish publications (newspapers and general newsletters, etc.) to learn resource conservation. Producer/manager demonstrates a basic understanding of soil and water resource conservation.
Level 3: Producer/manager uses technical, subject matter-specific information sources to aid in resource conservation. Producer/manager has a written farm plan or can verbally communicate technical knowledge of the following resource conservation issues. At least seven of the following apply: Bulkhead and pile type and methods to mitigate Carrying capacity and farm production

 □ Precision seeding/stock densities □ Water quality and environmental health □ Submerged aquatic vegetation (SAV) habitat and buffer zones
 □ Nutrient uptake and sequestration in soils and shellfish □ Upland and riparian vegetation conservation □ Benthic and pelagic ecology □ Benthic and pelagic biota in the farm area □ TSS/turbidity/siltation reduction measures □ Farm materials reduction and recycling □ Understanding/knowledge of applicable regulations and permits □ Other (please specify):
Level 4: As per Level 3, and producer/manager participates (or has participated in the last 5 years) in either on-farm testing of resource conservation strategies to evaluate their usefulness, and/or participates in local or regional water quality or resource enhancement/management council or organization. Producer/manager also documents performance of on-farm resource conservation practices.
Score:
Verification methods and notes:
Buffer Strips/Sensitive Habitats
Note: SAV avoidance/buffers may not be practical for established farms in certain growing regions (e.g.,

Note: SAV avoidance/buffers may not be practical for established farms in certain growing regions (e.g., Willapa Bay); practices may be developed to avoid major impacts (e.g., reducing high impact practices such as intensive dredging on SAV during SAV growth seasons).

Level 1: Buffer strips between sensitive habitats are not utilized or documented.

Level 2: Buffer strips of 10 feet (3m) or more are put in place between newly positioned farm operations and sensitive habitats (e.g., SAV, surf smelt and sand lance spawning grounds). As documented by a preinstallation underwater survey, new floating aquaculture systems are not located above existing SAV. (Survey information can be provided by previous federal, state/provincial, private or contracted studies.)

Level 3: As per level 2, and sensitive habitats are photographed, mapped or tracked at least every 2 years to determine localized increases or decreases adjacent to or within the farm site. Level 3 requires producer/manager to document buffers, not necessarily move buffers. These surveys could be used to locate buffer strips of newly positioned farms.

Level 4: As per Level 3, and sensitive habitats are plotted yearly via detailed maps and accompanied with site photography and qualitative sampling.

Score:

Verification methods and notes:

Upland/Near-Shore Resource Management

- **Level 1:** Producer/manager can show that all local, state/provincial, and federal laws and regulations are followed in regards to near-shore and upland uses where applicable permits and documentation can support.
- **Level 2:** As per Level 1, and producer/managers that have control over the uplands reduce the reliance of hardened bulkhead structures at farm sites, and maintain upland vegetation that interacts with the near-shore environment in areas that they own/manage.
- **Level 3:** As per Level 2, and producer/managers actively seek alternatives to upland and near-shore modifications. Modifications are limited to high traffic access points. Native upland vegetation is promoted to increase stability of the uplands and shading of the near-shore.
- **Level 4:** As per Level 3, and producer/managers participate in local/regional community events/ projects to protect upland vegetation and reduce bulkhead/impermeable surface/development effects.

Score:

Verification methods and notes:

Integrated Pest, Disease and Weed Management, and Pesticide Risk Reduction²

Note: This section applies to the use of herbicides for both land-based and aquatic applications, and other pesticides for land-based operations only.

Herbicides have been widely used for the eradication of *Spartina* on the west coast of the United States and will be used for spot treatments in the foreseeable future. Eradication of *Spartina* is mandatory and is strictly monitored by State and Federal permitting agencies. County and state agencies have primary responsibility for applying herbicides to eradicate *Spartina*; this includes private and public shellfish lands.

Aquatic applications are restricted to burrowing shrimp control and eradication of *Spartina* (an invasive grass). Criteria for aquatic pesticide use (e.g. burrowing shrimp control) are housed in the Oyster Inspection Tool as other aquatic pesticides (non-herbicides) are prohibited in all other forms of shellfish aquaculture.

 \square N/A: This farm uses no pesticides on upland or aquatic areas.

Continuing Education for Reducing Pesticide/Herbicide Usage (upland and aquatic)

- **Level 1:** No continuing education occurs.
- **Level 2:** Crop-specific or pesticide-specific publications are purchased or accessed by web site to aid in management decisions.
- **Level 3:** As per Level 2, and where operation uses restricted materials, producer/manager or contractor is a licensed private applicator and meets all continuing education requirements for licensed private applicators. (Producer/manager need not be a licensed private applicator if the only herbicide use is for controlling *Spartina* and a county or state agency is the herbicide applicator.) Producer/manager consults

Level 4. As per Level 3, and a total of 4 options from Level 2 apply.

Level 3. As per Level 2, and the plan is written. A total of 3 options from Level 2 apply.

Score:
Verification methods and notes:
Site Monitoring / Field Scouting (upland)
Level 1.: Upland areas are not monitored for nuisance species (weeds, rodents etc.).
Level 2: Records are maintained of pesticide use around and inside the upland staging areas and facilities.
 Level 3: As per Level 2 and problem areas are scouted at least twice per year. All the following apply: ☐ Scouting records are collected and maintained. ☐ Scouting records include GPS-based maps or other detailed maps of problem areas with precise locations of differing pest densities. ☐ Records are reviewed and used to inform and improve pest management strategies and scouting methods in subsequent seasons.
Level 4: As per Level 3, plus yearly monitoring is conducted for recently recruited pests inside and near upland staging areas and facilities.
Score:
Verification methods and notes:
Weather Monitoring
Level 1: Weather is not monitored.
Level 2: Important weather parameters are monitored on site or a site-specific weather service is employed. Pesticides are not applied when weather conditions are not appropriate (e.g., wind or precipitation episodes are expected.).
Lovel 2: As par Lovel 2, and weather data is used to schedule posticide applications for weather

Level 4: As per Level 3, efficacy and weather data are collected and available to outside entities (e.g.,

Score:

researchers).

Verification methods and notes:

dependent pests (phenology or degree-day models).

Lowest Effective Application Rates/Reducing Application Rates (upland)

Level 1: Pesticide application rates are selected according to manufacturer's label. Level 2: As per Level 1 and reduced dosage strategies are employed when the target pest does not require complete coverage. Level 3: As per Level 2, and applications are chosen with a goal of reducing pesticide usage by: (at least 3 of the following apply.) ☐ Matching density and severity of the pest problem. ☐ Preserving beneficial organisms. ☐ Border spraying. ☐ Tracking the number/frequency of applications made. ☐ Using novel spray technology. \square Using spot applications. ☐ Using GPS-based and/or surveyed and detailed maps of beds and associated pest population. ☐ Other (please specify): Level 4: As per Level 3 and a total of at least 4 from Level 3 apply. Synthetic pesticides are not used. All pesticide (synthetic and organic) toxicity rankings are maintained with pesticide records and tabulated annually to indicate progress in reducing overall use of high toxicity pesticides.

Score:

Verification methods and notes:

Pesticide Selection and Justification (upland)

Level 1: All the following apply:

- ☐ Producer/manager/contactor can show that only pesticides registered in the state/province as approved for target pests and crop are used.
- $\hfill\square$ Pesticide mixtures prohibited by the label are not used.

Level 2: For applications covering larger areas are made using equipment, i.e., aerial applications, pesticide selections and recommendations are made by licensed applicators and/or licensed consultants. (N/A for spot applications of non-RU pesticides.)

Level 3: As per Level 2, and the timing of applications and selection of pesticide materials correspond with scouting records or monitoring. No materials labeled "Danger" are used to control pests.

Level 4: When a control measure is deemed necessary, every effort is made to use beneficial organisms, and/or cultural controls. Where pesticides are used, reduced toxicity pesticides (i.e., no materials labeled "Danger or "Warning") are used.

Score:

Verification methods and notes:

Pesticide Record Keeping

Note: Pesticide records are a key element of the inspection process and are the only way inspectors can verify activities of the past. Certain products will not be able to be calibrated (e.g., upland applications of Roundup).

Level 1: Producer/manager/contractor can show that all legal requirements for pesticide record-keeping are met. (USDA requires, and states enforce, the following records for all applications of restricted use pesticides: name of applicator, date, field location or area, area treated including GPS based maps of bed location, pesticide name and EPA registration number, total amount applied, and crop.)

rocation, pesticide name and El Aregistration number, total amount applica, and crop.
Level 2: As per Level 1, and copies of pesticide application records taken by a commercial company, government agency or the owner-producer/manager are maintained on site and include all the following: Crop growth stage. Pest growth stage including densities. Purpose of the pesticide treatment, i.e., target pest. Threshold used to guide pesticide treatment. Current weather data, e.g., weather conditions on day of application. Effectiveness of pesticide treatment. Current weather data during treatment. Calibration records are maintained for upland applications and are available from the commercial applicator. If commercial companies or government agencies apply pesticides on this operation, copies of those records are requested and maintained on site.
Level 3: As per Level 2, and pesticide records are kept for longer than 3 years. Producer/manager/contractor can demonstrate how records are used year-to-year to examine trends and aid management decisions.
Level 4: As per Level 3, and pesticide records include detailed GPS-based maps of all beds in cultivation, as described under crop monitoring. Producer/manager/contractor can relate any changes or trials in pesticide use, such as reduction, elimination, alternative pesticide or alternative application techniques.
Score:
Verification methods and notes:
Calibration of Application Equipment and Pesticide Drift
Level 1: Application equipment that can be calibrated (insecticide, fungicide, herbicide application equipment) is calibrated less than once per year. Applications are made only with equipment designed for that use. Nozzles are checked and replaced when necessary.
Level 2: As per Level 1 and all the following apply: ☐ Products are mixed according to label directions. ☐ Application equipment is calibrated at the start of each season, if designed to be calibrated. ☐ Surfactants are used to minimize drift when recommended by the label. ☐ Applications are made only under weather conditions that minimize off-site movement (e.g., low wind speed, not raining).

calibration records <i>or</i> verbal description. Spot applications are used exclusively, or all the following apply:
 Buffer areas are established around fields to help reduce drift. Commercial application companies are hired on this operation and records are obtained by the producer/manager.
Note: Inspectors must feel confident that the method of calibration is adequate. Provide notation as to calibration methods used.
 Level 4: As per Level 3, and at least one of the following apply: □ Application equipment is calibrated more than once per season or uses technology that continuously calibrates. □ Technology is employed to keep particle size above 150 microns depending on the type of equipment and pesticide used. □ Pesticide application equipment is selected and maintained for site-specific conditions.
Score:
Verification methods and notes:
Hazardous Material Storage (upland)
Note: Storage facilities may be operated by producer/manager or other entity (e.g., other producer/manager, applicator) and be located on the grower's facility/property or off site.
Level 1: Storage facilities for hazardous materials (pesticides, fertilizers, fuel, lubricants) meet legal requirements (where applicable). Hazardous materials are stored in original, clearly labeled containers.
Level 2: Long-term storage is at least 150 ft. away from wells and 200 ft. away from surface water or sources of flame. Four of the following apply: Storage size and organization is adequate to separate flammables from other materials. Pesticides are organized by insecticides, herbicides, etc. Containers are organized to prevent spillage when storing/removing materials. Hazardous materials are stored away from shellfish seed and other materials/inputs that may come in contact with the marine environment. Storage area is clearly marked on the outside with warning signs. Flammables are kept out of direct sunlight. Dry materials are stored above liquids. Other (please specify):
Level 3: As per Level 2 with a total of 5 items checked from Level 2, and 4 of the following apply: □ Storage area is locked. □ Storage area has a sealed floor. □ Storage area is well ventilated (no strong chemical smell). □ Inventory is managed on a first-in, first-out basis. □ A current written inventory is maintained and accessible in the event of an emergency. □ Empty hazardous material containers are triple-rinsed before return to supplier or disposal in an approved recycling program or licensed landfill. □ Tank rinsate is sprayed on labeled crops at labeled rate or less.

Level 3: As per Level 2, and the method of calibration is communicated to the inspector via written

Level 4: Hazardous wastes are limited due to success in eliminating use of chemicals labeled "Danger" or
"Warning," or, as per Level 3 and storage area is "state of the art". All the following apply:
\square The storage area is located in a separate facility or building.
☐ The storage area is diked/curbed to contain spills.
\square Capacity of the diking system is at least 125% of the largest quantity stored.
\square Shelves are lipped and of an impermeable material.
\square Road access is adequate for delivery and emergency vehicles.
☐ Lock allows free exit from within when locked.
\square Valves on (large) storage tanks are locked when not in use (if applicable).
\square Storage is downwind (prevailing wind) from housing, play or processing areas.
\square An emergency plan is posted, directing people what to do in case of an emergency.
Score:

Verification methods and notes:

Class Ia and Ib pesticides registered for use by the USEPA (See: The WHO recommended classification of pesticides by hazard and guidelines to classification: 2009.)

EPA Reg No.	Product Name	WHO Mixture Class	Chemical Name
5481-448	AMVAC BIDRIN 8 WATER MISCIBLE INSECTICIDE	lb	Dicrotophos
10163-95	AZINPHOS METHYL TECHNICAL	lb	Azinphos-methyl
66330-233	AZINPHOSMETHYL 50W	lb	Azinphos-methyl
5481-9032	AZTEC 3.78% GRANULAR INSECTICIDE	lb	Phostebupirim
5481-9028	AZTEC 4.67% GRANULAR	lb	Phostebupirim
5481-552	BIDRIN XP	lb	Dicrotophos
100-987	BRODIFACOUM TECHNICAL	la	Brodifacoum
270-371	BROMADIOLONE 2.5% CONCENTRATE	lb	Bromadiolone
270-374	BROMADIOLONE TECHNICAL	la	Bromadiolone
47629-9	BROMETHALIN TECHNICAL	la	Bromethalin
279-3060	CARBOFURAN TECHNICAL	lb	Carbofuran
67760-43	CHEMINOVA METHYL PARATHION 4 EC	lb	Methyl parathion
4787-33	CHEMINOVA METHYL PARATHION TECHNICAL	lb	Methyl parathion
34704-259	CLEAN CROP PHORATE 20G	lb	Phorate
13808-7	COMPOUND 1080 LIVESTOCK PROTECTION COLLAR	lb	1080
56228-26	COMPOUND 1080 TECHNICAL (LPC)	la	1080
47000-144	CO-RAL COUMAPHOS 25% DUST BASE	lb	Coumaphos
11556-98	CO-RAL COUMAPHOS FLOWABLE INSECTICIDE	lb	Coumaphos
11556-123	CO-RAL PLUS INSECTICIDE CATTLE EAR TAG	lb	Coumaphos
11556-148	CORATHON	lb	Coumaphos
11678-53	COTNION-METHYL	lb	Azinphos-methyl
66222-11	COTNION-METHYL AZINPHOS METHYL 50W	lb	Azinphos-methyl
11556-11	COUMAPHOS TECHNICAL	lb	Coumaphos
5481-545	COUNTER 15G SYSTEMIC INSECTICIDE-NEMATICIDE	lb	Terbufos
5481-562	COUNTER 20G	lb	Terbufos
5481-547	COUNTER CR	lb	Terbufos
5481-546	COUNTER TECHNICAL POISON SOIL INSECTICIDE	la	Terbufos
5481-447	DICROTOPHOS TECHNICAL	lb	Dicrotophos
47629-12	DIFENACOUM TECHNICAL	la	Difenacoum
7173-204	DIFETHIALONE TECHNICAL	la	Difethialone
61282-5	DIPHACINONE, TECHNICAL GRADE FOR MANUFACTURING ONLY	la	Diphacinone
352-361	DU PONT METHOMYL COMPOSITION	lb	Methomyl
5481-492	DUPONT FORTRESS TECHNICAL	la	Chlorethoxyphos
352-342	DUPONT LANNATE SP INSECTICIDE	lb	Methomyl

EPA Reg No.	Product Name	WHO Mixture Class	Chemical Name
352-366	DUPONT METHOMYL TECHNICAL	Ib	Methomyl
352-400	DUPONT OXAMYL TECHNICAL 42 INSECTICIDE/NEMATICIDE	lb	Oxamyl
5481-9043	ETHOPROP TECHNICAL	Ib	Ethoprop
5481-493	FORTRESS 5G GRANULAR INSECTICIDE	Ib	Chlorethoxyphos
279-2876	FURADAN 4F INSECTICIDE/NEMATICIDE	lb	Carbofuran
279-3038	FURADAN 85 DB	lb	Carbofuran
279-3310	FURADAN LFR INSECTICIDE/NEMATICIDE	lb	Carbofuran
10163-78	GOWAN AZINPHOS-M 50 WSB	Ib	Azinphos-methyl
66222-162	GUTHION SOLUPAK 50% WETTABLE POWDER INSECTICIDE	Ib	Azinphos-methyl
11678-70	GUTHION TECHNICAL INSECTICIDE	Ib	Azinphos-methyl
61282-38	HOPKINS COV-R-TOX ENCAPSULATED WARFARIN - 50% TECHNICAL	Ib	Warfarin
61282-39	HOPKINS WARFARIN TECHNICAL RODENTICIDE	Ib	Warfarin
13808-8	M-44 CYANIDE CAPSULES	Ib	Sodium cyanide
33858-2	M-44 CYANIDE CAPSULES	Ib	Sodium cyanide
35975-2	M-44 CYANIDE CAPSULES	lb	Sodium cyanide
35978-1	M-44 CYANIDE CAPSULES	lb	Sodium cyanide
39260-1	M-44 CYANIDE CAPSULES	lb	Sodium cyanide
39508-1	M-44 CYANIDE CAPSULES	lb	Sodium cyanide
56228-15	M-44 CYANIDE CAPSULES	lb	Sodium cyanide
56228-32	M-44 CYANIDE CAPSULES ARCTIC FOX	lb	Sodium cyanide
10707-10	MAGNACIDE B MICROBIOCIDE	lb	Acrolein
10707-9	MAGNACIDE H HERBICIDE	lb	Acrolein
7173-174	MAKI TECHNICAL	la	Bromadiolone
7946-11	MAUGET INJECT-A-CIDE B	lb	Dicrotophos
10163-252	MESUROL 75 WDG	Ib	Methiocarb
10163-229	MESUROL 75% CONCENTRATE	lb	Methiocarb
56228-33	MESUROL 75% WETTABLE POWDER AVERSIVE CONDITIONING EGG TREATMENT	lb	Methiocarb
10163-231	MESUROL 75-W	lb	Methiocarb
10163-230	MESUROL TECHNICAL INSECTICIDE	lb	Methiocarb
100-530	METHIDATHION TECHNICAL	lb	Methidathion
10163-245	METHIDATHION TECHNICAL	lb	Methidathion
5481-9041	MOCAP EC NEMATICIDE - INSECTICIDE	lb	Ethoprop
279-2862	NIAGARA FURADAN 75 BASE	lb	Carbofuran
5481-8980	PHORATE 20 G	Ib	Phorate
9779-293	PHORATE 20-G	Ib	Phorate
5481-8979	PHORATE TECHNICAL INSECTICIDE	la	Phorate
83100-28	ROTAM METHOMYL 90SP INSECTICIDE	Ib	Methomyl
81598-9	ROTAM METHOMYL TECHNICAL	lb	Methomyl

EPA Reg No.	Product Name	WHO Mixture Class	Chemical Name
7173-75	ROZOL RODENTICIDE TECHNICAL POWDER	la	Chlorophacinone
72500-15	SLN PHARMACHEM WARFARIN	Ib	Warfarin
5481-561	SMARTCHOICE 5G	Ib	Chlorethoxyphos
35975-4	SODIUM FLUOROACETATE (COMPOUND 1080) LIVESTOCK PROTECTION COLLAR	Ib	1080
35978-8	SODIUM FLUOROACETATE (COMPOUND 1080) LIVESTOCK PROTECTION COLLAR	lb	1080
39508-2	SODIUM FLUOROACETATE (COMPOUND 1080) LIVESTOCK PROTECTION COLLAR	lb	1080
46779-1	SODIUM FLUOROACETATE (COMPOUND 1080) LIVESTOCK PROTECTION COLLAR	lb	1080
56228-22	SODIUM FLUOROACETATE (COMPOUND 1080) LIVESTOCK PROTECTION COLLAR	lb	1080
36029-14	STRYCHNINE ALKALOID N.F.	lb	Strychnine
27995-1	STRYCHNINE ALKALOID N.F. POWDER	lb	Strychnine
37259-1	STRYCHNINE ALKALOID NFX	Ib	Strychnine
5481-9031	TEBUPIRIMPHOS TECHNICAL	la	Phostebupirim
12455-88	TECHNICAL BRODIFACOUM	la	Brodifacoum
12455-70	TECHNICAL BROMADIOLONE	la	Bromadiolone
12455-92	TECHNICAL BROMETHALIN	la	Bromethalin
12455-25	TECHNICAL DIPHACINONE	la	Diphacinone
61282-1	TECHNICAL DIPHACINONE	la	Diphacinone
12455-26	TECHNICAL WARFARIN	Ib	Warfarin
100-1015	TEFLUTHRIN TECHNICAL	Ib	Tefluthrin
264-330	TEMIK BRAND 15G ALDICARB PESTICIDE	Ib	Aldicarb
5481-526	THIMET 10-G SOIL AND SYSTEMIC INSECTICIDE	Ib	Phorate
5481-527	THIMET 15-G SOIL AND SYSTEMIC INSECTICIDE	Ib	Phorate
5481-530	THIMET 20-G	Ib	Phorate
5481-528	THIMET MC - 85 FOR MANUFACTURING PURPOSES ONLY	la	Phorate
5481-529	THIMET TECHNICAL FOR MANUFACTURING PURPOSES ONLY	la	Phorate
352-532	VYDATE C-LV INSECTICIDE/NEMATICIDE	Ib	Oxamyl
352-372	VYDATE L INSECTICIDE/NEMATICIDE	Ib	Oxamyl
69826-1	WARFARIN TECHNICAL	Ib	Warfarin
3282-32	WINCON WARFARIN TECHNICAL	Ib	Warfarin
61282-3	ZINC PHOSPHIDE 93	Ib	Zinc phosphide

NOTE: WHO classification is based on acute risks to human health.

Class Ia = extremely hazardous, Class Ib = highly hazardous.

Safe and Fair Working Conditions

Note: All local, state, and federal employment labor laws are followed in all Food Alliance certified operations.

Minors, Children and Family Members in the Workplace
Level 1: Employer can show they comply with laws regarding employment of minors. Check if applicable: ☐ Employer has no policy or procedure regulating non-employees access to the workplace.
Level 2: Employer can show they comply with laws regarding employment of minors. Family members may visit the workplace, if deemed safe. Producer/manager can describe the means of providing a safe environment for children under 12.
Level 3: A written policy is in place supporting the ability of family members to visit the workplace if deemed safe; however, the policy states that children of the farm family (under age of 12) must be supervised when around the workplace area and fields. At least 2 of the following apply: Employer only employs legal minors during non-school hours. Employer has special training for minors and/or farm family's children. Employer communicates with parents of minors regarding the employment of their children. Employer provides childcare for employees' children. Trains supervisors on the special management needs of minors. Other (please specify):
Note: If the operation does not employ minors, that can count as 2 items under "Other".
Level 4: As per Level 3 and a total of 4 from Level 3 apply.
Score:
Verification methods and notes:
Grievance Procedures and Policies
Level 1: Management has no policy and makes no suggestions to employees that they may raise grievances.
 Level 2: A management policy exists that allows/encourages employees to raise concerns, safety issues, or grievances without fear of termination. At least one of the following apply: □ The policy is verbally communicated to employees either at the time of hire or implementation. □ Employees are directed to a designated individual with whom to raise concerns/ grievances. □ If needed, employer can speak with employee in native language, or someone on staff is available to translate.

Level 3: As per Level 2 and at least 2 options from Level 2 apply, and the policies are communicated in

 \Box The policy is accompanied by a set of procedures that describes how grievances or concerns will be

writing. All the following apply:

handled.

$\hfill\square$ Employees are given the name of the person with whom to file the grievance.
Level 4: As per Level 3, and the employer takes steps to encourage and get feedback regularly from employees. Employer schedules meetings to communicate with employees about their concerns or has an open-door policy in writing.
Score:
Verification methods and notes:
Recognizing and Supporting Employee Input for Workplace Improvement.
Note: Inspectors can give half points here if employer is encouraging employee input, but the policy is not necessarily in writing. Provide notation.
Level 1: Employer or producer/manager discourages employees from forming groups or discussing issues.
Level 2: Employer or producer/manager verbally encourages employees to discuss work place issues.
Level 3: As per Level 2, and employer or producer/manager has a policy in writing encouraging employees to develop ideas for improving the workplace.
Level 4: As per Level 3, and the operator supports group activities with space for meeting and/or time set aside during the workday for meetings.
Score:
Verification methods and notes:
Farm Worker Support Services
Level 1: When approached by employees or third-party representatives, employer is not receptive. Employer communicates this non-receptiveness to the inspector.
Level 2: Employer works with groups of employees or third-party representatives (any person representing a group or organization dedicated to welfare, safety, labor unions, legal services, etc.) to improve workplace conditions. At least 2 of the following apply: Employer meets with union representatives when asked to do so by the employees. Employer meets with community groups to discuss health and welfare. Employer cooperates with groups to build workplace productivity. Employer cooperates with groups to identify training needs. Employer cooperates with groups to identify safety concerns. Employer has addressed the recommendations of third-party representatives. Other

Level 3: Employer has a written policy communicating openness to working with third party representatives and/or groups of employees. Level 4: As per Level 3, and the policy describes a timeline or process for responding to recommendations made by third party representatives. Score: Verification methods and notes: **Discipline Process** Level 1: There is no policy or procedure in place requiring a uniform disciplinary process that maps out the steps that may lead to termination. When terminations occur, it involves no process of coaching to improve performance. Level 2: There is a written policy in place but is not distributed to producer/managers. Firing may take place at the will and by the terms of the producer/manager. Level 3: As per Level 2 and written policy is distributed to new hires and given to all producer/ managers. Firing of an employee comes at the end of a stepped, progressive discipline process. Level 4: As per Level 3, and all producers/managers are trained to implement policy uniformly. The policy must describe a process to improve performance problems. Score: Verification methods and notes: **Nondiscrimination Policy** Level 1: Employer has no written policy claiming non-discrimination practices consistent with the law are in effect. Level 2: Employer has a written policy describing non-discrimination practices consistent with the law. The following items are discussed (at least 2 of the following apply): ☐ Age ☐ Race ☐ Third party affiliation

 □ Religion □ Gender □ Sexual orientation □ National origin □ Disability □ Other (please specify):
Level 3: As per Level 2 and a total of at least 4 options from Level 2 apply, and employer provides training for producer/managers for implementing non-discrimination policy.
Note: If an owner is also the producer/manager, his/her own training applies here.
Level 4: As per Level 3 and employer extends training to employees.
Score:
Verification methods and notes:
Hiring Practices and Communication of Expectations and Policies
Level 1: Employer does not communicate with employees about job expectations or workplace policies.
Level 2: Employer verbally communicates job expectations and policies at the time of hire.
Level 3: Employer gives new hires a workplace policies document. At least 3 of the following apply: This written document is in both English and applicable language for non-English speakers. New employees are given a sign-off sheet acknowledging receipt of the policies. New employees are given a sign-off sheet describing job expectations. New employees are given a sign-off sheet detailing the terms of employment (pay rate, work day, and length of employment). Employer gives some limited job training and orientation specific to the task. Employer has an orientation checklist that is kept on file to keep a record of the orientation/training activity. Shows educational materials such as videos, manuals, etc., for safety and/or tasks specific to the jobs. Employer has taken a cultural sensitivity class in order to better relate with employees. Other (please specify):
Level 4: As per Level 3, and a total of at least 5 options from Level 3 apply. Employer offers employees a written employee contract detailing terms and conditions of employment.
Score:
Verification methods and notes:

Work Force Development and New Skills Training

Note: For seasonal laborers doing unskilled tasks, this criterion is non-applicable. It does apply for seasonal laborers performing skilled tasks.

- **Level 1:** Employer provides no training opportunities for employees.
- Level 2: Employer allows limited unpaid leave for employees to pursue training.
- **Level 3:** Employer encourages workplace training by providing direct pay or paid time off or tuition for job related educational activities.
- **Level 4:** As per Level 3, and employer offers direct pay or paid leave and tuition to employees for training relevant to required tasks.

Score:

Verification methods and notes:

Compensation Practices

Level 1: Employer can show they meet federal laws for pay period at least every month and meets minimum wage laws where applicable required documentation can support. Employer has a system to track piece rate to ensure minimum wage is met. Employer keeps records on each employee.

Level 2: As per Level 1 and employer has a progressive compensation system. At least 1 of the following applies:

Employer adjusts piece rates to reward seniority or performance, or changing crop conditions.
Employer gives bonuses to reward productivity of the group.
Employer shares profits.
Employer distributes work opportunities fairly, not giving favorite workers best opportunities.
Average wage for non-management employees is above minimum wage.
Employer conducts regular performance evaluations, rewarding good performance with pay raises
If employer gives pay advances to employees, they have system to communicate the expectations
to prevent confusion on the part of the employee.
Employer gives bonus wages to reward excellent work.
Other (please specify):

Level 3: As per Level 2, and employer uses a total of 4 options from Level 2.

Level 4: As per Level 3, and employer uses 5 or more options from Level 2.

Score:

Verification methods and notes:

Employee Benefits
Note: Non-applicable for seasonal-only labor. Seasonal-only labor must be verified.
Level 1: Employer provides unemployment and/or workers compensation insurance.
Level 2: Employer provides at least 2 of the following benefits: Health insurance
Level 3: Employer provides a total of at least 4 benefits from Level 2.
Level 4: Employer provides a total of at least 5 benefits from Level 2.
Score:
Verification methods and notes:
Family Support Services and Worker Housing
Level 1: Employer provides no referrals, services, and/or housing to employees.
 Level 2: Employer provides housing and housing meets legal standards, and/or employer refers workers to community resources for information concerning health and welfare, housing, and/or other social services information. At least 1 of the following applies: Employer keeps a list of community resources to give to employees. Employer keeps a list of housing opportunities to give to employees. Employer offers childcare services or stipend. Employer participates at a high level (leadership, donations, etc.) in community groups dedicated to increasing housing opportunities. Employer donates money and other resources to local housing groups. Other (please specify):

FA-ET-03 Whole Shellfish Farm Evaluation Tool Oct 2022

Level 3: As per Level 2 and a total of 2 items from Level 2 apply, if housing not provided.

Level 4: As per Level 3 and at least 3 items from Level 2 apply, if housing not provided.

Score:
Verification methods and notes:
Pesticide Handler/Applicator Safety
Note: If pesticides and solvents are not used this criterion is scored as N/A.
Level 1: Producer/manager can show that all legal requirements are met for protection of handler/applicators and others who handle hazardous materials including pesticides, fuel, lubricants, solvents, etc., including protective equipment, re-entry and pre-harvest intervals and posting appropriate signage.
Level 2: As per Level 1 and all the following apply for pesticide applicators: (Level 2 automatically attained if no pesticides are used.) ☐ All workers are closely supervised by a licensed pesticide applicator. ☐ All workers have taken a pesticide application training course.
Level 3: As per Level 2 and at least 3 of the following apply: ☐ Emergency eye washing facilities are provided near storage, mixing/loading, and/or application sites. ☐ Showers and changing rooms are provided near storage, mixing/loading, and/or application sites. ☐ Spare clean clothing is provided near storage, mixing/loading, and/or application sites. ☐ Protective clothing is used and cared for properly (e.g., laundered as soon after use as possible, laundered separately from household wash). ☐ Respirator training and fitting. ☐ Respirators/cartridges are kept in protective packaging. ☐ Respirator pads/cartridges are changed regularly. ☐ Pesticide applicators applying highly toxic chemicals (e.g., pesticides labeled "Danger") are equipped with powered filtered-air respirator systems and/or positive pressure caps. ☐ When applicable, workers handling solvents etc., with potential to cause injury, are provided appropriate safety equipment. ☐ Other (please specify):
Level 4: As per Level 3 and at least 4 options from Level 3 apply.
Score:
Verification methods and notes:

Hazardous Materials Emergency Management

Note: Inspectors need to know how spills are handled. Provide notation. Supplies needed include absorbents, booming materials, trash bags, rubber boots and gloves, eye protection, and/or respirators.

Level 1: Producer/manager can show that all state/provincial, federal, and local legal requirements (if applicable) are met for emergency management of spills, fires, or other emergencies related to hazardous materials.

Level 2: As per Level 1 and any spills in storage, mixing/loading, vessels, or application sites are cleaned up promptly. As an indicator, spill response kits/equipment (can be as simple as absorbent materials, i.e., kitty litter in upland areas, bilge pads, and extra absorbent pads in vessels) are readily available where hazardous materials are stored, mixed, or used. Materials used to clean up spills are disposed of properly.

Level 3: As per Level 2, and emergency washing facilities (this can include the operator's home) such as showers, eyewash, and spare clean clothing are provided near storage, mixing/loading, and application sites. Two of the following apply:
 Producer/managers have current HAZWOPER (Hazardous Waste Operations and Emergency Response Standard) certification or demonstrate similar training.
 Spill kits and plans are in place to address farm spills/leaks to prevent substances entering the environment.
 Hazardous materials are promptly and properly disposed of (e.g., materials in derelict/defunct equipment).
Level 4: As per Level 3, and a written emergency management plan (see farm safety policy) is available. Plan includes at least 5 of the following:
 ☐ Identification and phone numbers for persons who should be contacted. ☐ Procedures and equipment to be used.
 □ Copies of complete labels and MSDS sheets of hazardous materials used. □ Location of fixed storage sites.
 □ Policies requiring training for those who work with or around hazardous materials. □ Location of booming and other marine spill containment devices/resources.
☐ Other (please specify):
Score:
Verification methods and notes:

Note: For operations relying on boat access the following is only needed in shop areas, at company-controlled boat access points and at floating facilities where workers are expected to stay for extended periods (+3 hours). Marine portable toilets and hand sanitizers are acceptable on floating structures.

Level 1: Producer/manager can show that employees follow all state/provincial and federal upland and marine sanitation laws and regulations, and all the following apply:

Sanitation

 Employers provide clean drinking water and clean latrines with hand washing stations to workers. Hand washing stations or facilities have soap and water or hand sanitizer. If holding tanks are used, they are pumped out according to by law. Upon inspection, all facilities are clean.
 Level 2: As per Level 1 and 1 of the following applies: □ Employer provides a shower facility with warm water for employees to wash and change after the workday. (This can include the operator's home.) □ Hand washing stations or facilities have hot water and soap. □ Employer maintains a checklist of station/facility cleaning at least weekly. □ Other (please specify):
Level 3: As per Level 2 and at least 2 options from Level 2 apply.
Level 4: As per Level 3 and at least 3 options from Level 2 apply.
Score:
Verification methods and notes:
General Safety
Level 1: Producer/manager can describe how employees follow all state/provincial and federal upland and marine safety laws (including diving) and regulations and all the following apply:
Level 1: Producer/manager can describe how employees follow all state/provincial and federal upland and marine safety laws (including diving) and regulations and all the following apply: □ Employers provide safety training. □ Overtime and number of days worked continuously are limited by safety considerations. □ Employees wear a personal floating device (PFD) while on floating systems or vessels.
Level 1: Producer/manager can describe how employees follow all state/provincial and federal upland and marine safety laws (including diving) and regulations and all the following apply: Employers provide safety training. Overtime and number of days worked continuously are limited by safety considerations. Employees wear a personal floating device (PFD) while on floating systems or vessels. Vessels are properly lit during nighttime operations. Employees are equipped with communications devices (e.g., cell phones, VHF radios) while on vessels/floating systems that can be used at and in transit to work sites.
Level 1: Producer/manager can describe how employees follow all state/provincial and federal upland and marine safety laws (including diving) and regulations and all the following apply: Employers provide safety training. Overtime and number of days worked continuously are limited by safety considerations. Employees wear a personal floating device (PFD) while on floating systems or vessels. Vessels are properly lit during nighttime operations. Employees are equipped with communications devices (e.g., cell phones, VHF radios) while on
Level 1: Producer/manager can describe how employees follow all state/provincial and federal upland and marine safety laws (including diving) and regulations and all the following apply: Employers provide safety training. Overtime and number of days worked continuously are limited by safety considerations. Employees wear a personal floating device (PFD) while on floating systems or vessels. Vessels are properly lit during nighttime operations. Employees are equipped with communications devices (e.g., cell phones, VHF radios) while on vessels/floating systems that can be used at and in transit to work sites. At sites only accessed via vessel, a vessel is left with employees while they are at the site. Crews are trained to manage overboard and onboard emergencies. Level 2: As per Level 1, PFD's are checked by owner's manual specifications, first aid kits are available, and 1 of the following applies:
Level 1: Producer/manager can describe how employees follow all state/provincial and federal upland and marine safety laws (including diving) and regulations and all the following apply: Employers provide safety training. Overtime and number of days worked continuously are limited by safety considerations. Employees wear a personal floating device (PFD) while on floating systems or vessels. Vessels are properly lit during nighttime operations. Employees are equipped with communications devices (e.g., cell phones, VHF radios) while on vessels/floating systems that can be used at and in transit to work sites. At sites only accessed via vessel, a vessel is left with employees while they are at the site. Crews are trained to manage overboard and onboard emergencies. Level 2: As per Level 1, PFD's are checked by owner's manual specifications, first aid kits are available, and 1 of the following applies: Employer contracts with professional firms to provide safety/first aid training. Training can be documented. Employer has developed training checklists specific to jobs to ensure each employee gets training.
Level 1: Producer/manager can describe how employees follow all state/provincial and federal upland and marine safety laws (including diving) and regulations and all the following apply: Employers provide safety training. Overtime and number of days worked continuously are limited by safety considerations. Employees wear a personal floating device (PFD) while on floating systems or vessels. Vessels are properly lit during nighttime operations. Employees are equipped with communications devices (e.g., cell phones, VHF radios) while on vessels/floating systems that can be used at and in transit to work sites. At sites only accessed via vessel, a vessel is left with employees while they are at the site. Crews are trained to manage overboard and onboard emergencies. Level 2: As per Level 1, PFD's are checked by owner's manual specifications, first aid kits are available, and 1 of the following applies: Employer contracts with professional firms to provide safety/first aid training. Training can be documented.

Level 3: As per Level 2 and at least 2 options from Level 2 apply.

Level 4: As per Level 3 and at least 3 options from Level 2 apply.

Score:

Verification methods and notes:

SCORECARD

Fish and Wildlife Habitat Conservation	Score/Level
Continuing education for fish and wildlife habitat conservation	
Habitat conservation improvements	
Invasive species management	
Nuisance species management	
Threatened and endangered species protection (upland and aquatic)	
Fish and wildlife food, cover, habitat structure and water	
Linking individual wildlife habitat conservation activities together	
Total points earned	
Total points available	28
Total points N/A	
Total applicable points	
Average score	

Healthy and Humane Care for Shellstock	Score/Level
Planting and production plan	
Carrying capacity management	
Disease prevention and management	
Transportation (nursery and growout)	
Hazard reduction and sanitation (growout)	
Total points earned	
Total points available	20
Total points N/A	
(Total points available) – (Total points N/A) = Total applicable points	
(Total points earned)/(Total applicable points) = Average score	

Shared Resource management	Score/Level
User relations	
Farm-site boundaries	
Marine operations and navigation	
Farm equipment maintenance and material reduction	
Total points earned	
Total points available	16
Total points N/A	
(Total points available) – (Total points N/A) = Total applicable points	
(Total points earned)/(Total applicable points) = Average score	

Soil and Water Conservation	Score/Level
Continuing education for soil and water conservation	
Buffer strips and sensitive habitats	
Upland/near-shore resource management	
Total points earned	
Total points available	12
Total points N/A	
(Total points available) – (Total points N/A) = Total applicable points	
(Total points earned)/ (Total applicable points) = Average score	

Integrated Pest, Disease and Weed Management, and Pesticide Risk Reduction	Score/Level
Continuing education for reducing pesticide usage	
IPM planning (upland)	
Site monitoring/field scouting (upland)	
Weather monitoring	
Lowest effective application rates/reducing application rates (upland)	
Pesticide selection and justification (upland)	
Pesticide recordkeeping	
Application equipment calibration and pesticide drift management	
Hazardous material storage	
Total points earned	
Total points available	36
Total points N/A	
(Total points available) – (Total points N/A) = Total applicable points	
(Total points earned)/(Total applicable points) = Average score	

Safe and Fair Working Conditions	Score/Level
Minors, children and family members in the workplace	
Grievance procedures and policies	
Recognizing and supporting employee input for workplace improvement	
Farm worker support services	
Discipline process	
Nondiscrimination policy	
Hiring practices, and communicating expectations and polices	
Workforce development and new skills training	
Compensation practices	
Employee benefits	
Worker housing and family support services	
Pesticide handler/applicator safety	
Hazardous materials emergency management	
Sanitation	
General safety	
Total points earned	
Total points available	60
Total points N/A	
(Total points available) - (Total points N/A) = Total applicable points	
(Total points earned)/(Total applicable points) = Average score	

Evaluation Summary

No GMO breeds or cloned animals are used	☐ compliance verified
No Prohibited Pesticides are used	\square compliance verified
No hormones are used	\square compliance verified
No sub-therapeutic antibiotics are used	\square compliance verified
Continual improvement (re-applicants only)	\square compliance verified
Fish and Wildlife Habitat Conservation	Score:
Healthy and Humane Care for Shellstock	Score:
Shared Resource Management	Score:
Soil and Water Conservation	Score:
Reducing Pesticide Usage	Score:
Safe and Fair Working Conditions	Score:

Acknowledgements

The evaluation criteria included in this inspection tool were developed using information from many sources, including*:

- British Columbia Ministry of Agriculture, Food and Fisheries, "BC Shellfish Aquaculture Code of Practice", Final Submission, July 03, 2002.
- National Organic Standards Board (NOSB), Livestock Committee, "Recommendation on 205.257 Molluscan Shellfish Standards," Sept 9, 2009.
- Pacific Coast Shellfish Grower's Association" Environmental Codes of Practice for the Pacific Coast Shellfish Farmers", Jan 2009.
- Sustainable Shellfish, "Recommendations for responsible aquaculture", Heather Deal, David Suzuki Foundation, 2005.
- Taylor Shellfish, "Environmental Codes of Practice", December 19, 2008.
- U. S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, "Endangered Species Act Section 7 Programmatic Consultation Biological and Conference Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation, Nationwide Permit 48 Washington" (State), April 28, 2009.
- United States Fish and Wildlife Service, "Endangered Species Act -Section 7 Consultation, Biological Opinion, U.S. Fish and Wildlife Service Reference: 13410-2008-F-0461, Nationwide Permit #48 for Shellfish Aquaculture, State of Washington", March 2009.
- Aquaculture on State Owned Aquatic Lands in Washington State, June 13, 2006.
- WA Dept. of Ecology's Shellfish Aquaculture Regulatory Committee, "Guidelines for Geoduck Aquatic Operations", Developed under the Authority of Section 4 of Second Substitute House Bill 2220 Chapt 216, Laws of 2007, Jan 2009, Publication #09-06-001.
- Washington Department of Natural Resources, "Best Management practices for Geoduck.
- World Wildlife Fund' "Draft Environmental and Social Standards for Bivalve Aquaculture," February 1, 2010.

These evaluation criteria were developed in collaboration with Andrew D. Suhrbier, Senior Biologist with the Pacific Shellfish Institute, Olympia, WA., suhrbier@pacshell.org

The following individuals reviewed and provided comment on the evaluation criteria**:

- 1. Lisa Bishop, Little Skookum Shellfish
- 2. Colin Brannen, Aquaculture Program Officer, World Wildlife Fund
- 3. Dr. Dan Chenev, Senior Scientist, Pacific Shellfish Institute
- 4. John Finger, Hog Island Oyster Co.
- 5. Dr. Becky Goldburg, Director of Marine Science, Pew Environmental Group, Pew Memorial Trust
- 6. Brian Kingzett, Blue Revolution Consulting Group
- 7. Marco Pinchot, Community Relations and Sustainability Manager, Taylor Shellfish Co.
- 8. John Lentz, Chelsea Farms, LLC.
- 9. Dr. Sandy Shumway, University of Connecticut, Department of Marine Sciences

^{*}Not all practices from these sources were incorporated into the final draft of these evaluation criteria, so acknowledgement of their use does not constitute an endorsement of these criteria.

^{**}Not all reviewer comments and suggestions were incorporated in the final draft of these evaluation criteria, so recognition of their contribution does not constitute an endorsement.

Document Review:

11/9/2018	Complete document review, removed copyright notation,	Completed by Shaila Cook,
	removed fillable form function, updated footer.	Certification Manager
10/18/2022	Complete document review, updated footer, corrected spacing/	Completed by Shaila Cook,
	white space, converted to pdf fillable, added document review table.	Certification Manager