

CONFIDENTIAL



**Sysco SUSTAINABLE/
INTEGRATED PEST MANAGEMENT INITIATIVE**

**Improving Stewardship in
Canned and Frozen Fruit and Vegetable Production**

Sysco SUSTAINABLE/IPM STANDARD AUDIT v09.03

Revised 2/28/2017

Prepared for Sysco by:

The IPM Institute of North America, Inc.
211 S. Paterson St. Suite 380
Madison WI 53703
(608) 232-1410, Fax (608) 232-1440
info@ipminstitute.org; www.ipminstitute.org

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Audit Information

Auditor Name, Title, Company _____

Start Date and Time mm/dd/yyyy hh:mm am/pm _____

End Date and Time mm/dd/yyyy hh:mm am/pm _____

Foreman or Contact Person (and email) _____

City _____

State/Province _____

Country _____

Audit Summary _____

Crops

Crop

Name: _____

Number of years supplier has produced this crop for Sysco: _____

Total number of acres of this crop produced: _____

States/country where grown: _____

Crop represents what percent of production for Sysco: _____

Crop

Name: _____

Number of years supplier has produced this crop for Sysco: _____

Total number of acres of this crop produced: _____

States/country where grown: _____

Crop represents what percent of production for Sysco: _____

Crop

Name: _____

Number of years supplier has produced this crop for Sysco: _____

Total number of acres of this crop produced: _____

States/country where grown: _____

Crop represents what percent of production for Sysco: _____

Entities

Supplier to Sysco

Name: _____

Street Address: _____

City,State,Zip: _____

Processing Plant (If different from above.)

Name: _____

Street Address: _____

City,State,Zip: _____

Grower(s) (List only those growers audited.)

Name: _____

Street Address: _____

City, State, Zip: _____

Participant in Potato Sustainability Initiative? (Yes or No) _____

Categories

Preliminaries

1.01 Is production approved under another on-site environmental practice audit program? (This item is informational only and will not affect score.)

Yes No

Memo: _____

1.01 *Verify* Indicate other on-site environmental practice audit program(s) and view certificate or other documentation:

Cornell IPM Elements

Food Alliance

GLOBALG.A.P.

Protected Harvest

Rainforest Alliance

USDA Certified Organic

Potato Sustainability Initiative (If yes, USE PSI PROCESSING FACILITY AUDIT, NOT THIS AUDIT)

Other (specify)

Minimum standards

2.01 Biosolids are not used on fields within one year prior to planting a fruit or vegetable crop, unless permission has been requested by the supplier and granted in writing by Sysco Quality Assurance management. Untreated sewage is never used. To date, an exception has been granted for sweet corn grown in rotation with field corn, to which the application of biosolids is a common practice.

Pass Fail

Memo: _____

2.01 *Verify* Auditor viewed the following documents:

Supplier written policy statement

Supplier written requirement to sub-suppliers

Nutrient application records for randomly selected fields used to produce fruit or vegetable crops grown for Sysco

2.02 Genetically modified fruit and vegetable crops are not grown, unless permission has been requested by the supplier and granted in writing by Sysco Quality Assurance management. The use of genetic engineering with respect to certain raw materials including corn, soybeans and rice is widespread, and these products are accepted by Sysco Corporation. Products distributed by Sysco comply with all applicable federal and state laws and labeling regulations regarding genetically engineered food products.

Pass Fail

Memo: _____

2.02 *Verify* Auditor viewed the following documents:
Supplier written policy statement
Supplier written requirement to sub-suppliers
Seed supplier(s) written certification
Seed purchase records for randomly selected locations
Supplier product testing records for GMO content, if any

2.03 SUPPLIER and SUB-SUPPLIERS are aware of legal requirements pertaining to pesticide and nutrient applications, and employee health and safety, and have no open or unresolved violations.

Pass Fail

Memo: _____

2.03 *Verify* Auditor viewed the following evidence of compliance with applicable legal requirements:
Supplier written policy statement regarding compliance with legal requirements
Supplier written compliance requirement to sub-suppliers
Pesticide applicator licensing/certification for randomly selected applicators
Worker protection standard/right-to-know materials
Availability of personal protective equipment (PPE) for pesticides used

2.03-a1 Has the SUPPLIER been cited for violations since the previous audit or within the last two years if they are a new supplier? If yes, explain in detail including current status in memo. (Informational only, does not affect score.)

Yes No

Memo: _____

2.03-a1 *Verify* SUPPLIER violations may pertain to:

- Air pollution
- Wastewater disposal
- Water contamination
- Noise complaints
- Waste disposal
- Employee welfare and safety
- Other (describe)
- None

2.04 Complete, legible pesticide application records are available for the current season. These records may be with SUPPLIER or SUB-SUPPLIER and must be maintained for three years.

Pass Fail

Memo: _____

2.04 *Verify* FOR A PASS RATING, ALL of the following information must be included on pesticide application records:

- Time
- Date
- Location
- Target pest
- Material applied
- Rate
- Applicator
- Application method
- Weather conditions: estimated or measured wind speed and direction
- Weather conditions: estimated or measured temperature

2.05 Complete, legible nutrient application records are available for the current season. These records may be with SUPPLIER or SUB-SUPPLIER and must be maintained for three years.

Pass Fail

Memo: _____

2.05 *Verify* FOR A PASS RATING, ALL of the following non-optional information must be included on nutrient application records:

- Date
- Time (optional)
- Weather (optional)
- Location
- Material applied Rate
- Applicator
- Application method

Scored General Standards

3.01-a1 A map or list identifies environmentally sensitive areas at the PROCESSING PLANT.

Possible Score 10
Points Earned _____

Memo: _____

3.01-a1 *Verify* FOR FULL POINTS, ALL environmentally sensitive areas at or immediately adjacent to the PROCESSING PLANT must be identified. Specify sensitive areas identified at the PROCESSING PLANT:

- Aquifers
- Surface water bodies
- Wetlands
- Wellheads
- Endangered/threatened species habitat
- Chemical storage
- Storm drains
- Fuel tanks
- On site dwellings

Pollinator habitat
Other (describe)
None

3.01-a2 A map or list identifies environmentally sensitive areas at each FIELD PRODUCTION site.

Possible Score 10

Points Earned _____

Memo: _____

3.01-a2 *Verify* FOR FULL POINTS, ALL environmentally sensitive areas must be identified at or immediately adjacent to all FIELD PRODUCTION sites. Specify sensitive areas identified for FIELD PRODUCTION sites:

Aquifers
Surface water bodies
Wetlands
Wellheads
Endangered/threatened species habitat
Chemical storage
Storm drains
Fuel tanks
On site dwellings
Other (describe)
None

3.01-b New field production has NOT been established in sensitive areas since the previous audit, or within the past three years for new suppliers, except where production is related to the sensitive feature, e.g., cranberries, rice in wetlands, in which case special protective measures should be in place.

Possible Score 20

Points Earned _____

Memo: _____

3.01-c1 Adequate measures are in place to protect sensitive areas at the PROCESSING PLANT.

Possible Score 20

Points Earned _____

Memo: _____

3.01-c1 *Verify* Measures at the PROCESSING PLANT to protect sensitive areas include:

- Undeveloped reserves Filter strips
- Signage
- Fencing
- Buffers, details (e.g. size)
- Invasive plant removal
- Locked areas
- Adequate containment
- Other (describe)

3.01-c2 Adequate measures are in place to protect sensitive areas at FIELD PRODUCTION sites.

Possible Score 20
 Points Earned _____

Memo: _____

3.01-c2 *Verify* Measures at FIELD PRODUCTION sites to protect sensitive areas include:

- Undeveloped reserves Filter strips
- Signage
- Fencing
- Buffers, details (e.g. size)
- Invasive plant removal
- Locked areas
- Adequate containment
- Other (describe)

3.01-d Sensitive areas at the PROCESSING PLANT and FIELD PRODUCTION sites are visually monitored at least annually. Status and corrective actions taken are recorded in writing. Note frequency of monitoring in memo.

Possible Score 10
 Points Earned _____

Memo: _____

3.01-e Quantitative measures of the quality of sensitive areas at the PROCESSING PLANT and FIELD PRODUCTION sites are made and recorded, and improved over time.

Possible Score 10
 Points Earned _____

Memo: _____

3.01-e *Verify* Identify quantitative measures:

- Species present
- Water quality measures
- Incoming irrigation or processing water testing
- Outgoing runoff or wastewater testing
- Other (describe)

3.02-a SUPPLIER/SUB-SUPPLIERS create habitat and forage sources on the farm for pollinators.

Possible Score 40
Points Earned _____

Memo: _____

3.02-a *Verify* Strategies implemented to provide habitat and forage opportunities for pollinators may include:

- A variety of plant species attractive to pollinators are planted and/or existing plantings are maintained in non-cropped areas and planned to provide nectar and pollen sources throughout the foraging season
- Flowering cover crops with abundant pollen and nectar are planted
- Nesting sites are created such as areas of semi-bare, untilled ground for ground nesting bees and tube bundles and blocks for wood and cavity nesting bees
- Clean water sources are available on the farm for pollinators
- Other (describe)

3.03-a1 SUPPLIER has emergency contact information and staff procedures readily available in the event of possible emergencies.

Possible Score 20
Points Earned _____

Memo: _____

3.03-a2 SUB-SUPPLIERS have emergency contact information and staff procedures readily available in the event of possible emergencies.

Possible Score 20
Points Earned _____

Memo: _____

3.03-b1 SUPPLIER emergency management plans are written and readily accessible.

Possible Score 20
Points Earned _____

Memo: _____

3.03-b1 *Verify* FOR FULL POINTS, SUPPLIER emergency management plans must have at least the following elements:

- Potential emergencies and response
- Staff roles and responsibilities
- Training protocol for staff
- Resources for control/contain/cleanup
- Emergency contacts
- Other (describe)

3.03-b2 SUB-SUPPLIER emergency management plans are written and readily accessible.

Possible Score 20
Points Earned _____

Memo: _____

3.03-b2 *Verify* FOR FULL POINTS, SUB-SUPPLIER emergency management plans must have at least the following elements:

- Potential emergencies and response
- Staff roles and responsibilities
- Training protocol for staff
- Resources for control/contain/cleanup
- Emergency contacts
- Other (describe)

3.03-c1 SUPPLIER emergency management plans address potential emergencies.

Possible Score 10
Points Earned _____

Memo: _____

3.03-c1 *Verify* FOR FULL POINTS, SUPPLIER emergency management plans must address at least the first four emergencies below:

- Fuel spills
- Chemical spills
- Worker exposure
- Fire
- Other (describe)

3.03-c2 FOR FULL POINTS, SUB-SUPPLIER emergency management plans address potential emergencies.

Possible Score 10
Points Earned _____

Memo: _____

3.03-c2 *Verify* FOR FULL POINTS, SUB-SUPPLIER emergency management plans must address at least the first five emergencies below:

- Fire
- Fuel spills
- Pesticide spills
- Nutrient spills
- Worker exposure
- Other (describe)

3.03-d SUPPLIER or SUB-SUPPLIERS have experienced an environmental emergency since the previous audit or within three years if new supplier. If yes, describe the emergency and response in memo. (Informational only, does not affect score.)

Possible Score 0
Yes No

Memo: _____

3.04-a SUPPLIER and/or SUB-SUPPLIERS have emergency contact information and staff procedures readily available in the event of unexpected drift.

Possible Score 30
Points Earned _____

Memo: _____

3.04-b Application equipment is appropriate for the use. Calibration is current and written calibration records are available for at least the most recent calibration.

Possible Score 30
Points Earned _____

Memo: _____

3.04-c SUPPLIER and/or SUB-SUPPLIER drift management plans are written and readily accessible.

Possible Score 40
Points Earned _____

Memo: _____

3.04-c *Verify* FOR FULL POINTS, drift management plans must be available for all FIELD PRODUCTION sites where applications are made and have at least the following elements:

Staff roles and responsibilities

Training protocol for staff

Information to help applicator to determine when weather conditions are unsafe for specific types of pesticides

Information to help applicator select or adjust formulations, additives, equipment, techniques, or other options to reduce drift.

Contact information for those requiring notification if unexpected drift has occurred

3.04-d Have SUPPLIER or SUB-SUPPLIERS been cited for off-target application of agrochemicals since the previous audit, or within the last three years if a new supplier? If yes, describe situation and response in memo. (Informational only, does not affect score.)

Possible Score 0

Yes No

Memo: _____

3.05-a1 Visibly eroded areas around PROCESSING PLANT sites are not present or extremely limited in size and number with corrective measures in place.

Possible Score 20

Points Earned _____

Memo: _____

3.05-a2 Visibly eroded areas around FIELD PRODUCTION sites are not present or are extremely limited in size and number with corrective measures in place.

Possible Score 30

Points Earned _____

Memo: _____

3.05-b1 Protective measures are in place at the PROCESSING PLANT where the threat of soil erosion exists from wind or water.

Possible Score 20

Points Earned _____

Memo: _____

3.05-b1 *Verify* Protective measures at the PROCESSING PLANT include:

Terraces

Mulches

Manage drainage Buffer or filter strips

Established vegetation

Other (describe)

3.05-b2 Protective measures are in place at FIELD PRODUCTION sites where the threat of soil erosion exists from wind or water.

Possible Score 30

Points Earned _____

Memo: _____

3.05-b2 *Verify* Protective measures at FIELD PRODUCTION sites include:

Windbreaks (fencing, plantings)

Terraces

Cover crops

Mulches

Contours

Managed drainage

Buffer or filter strips

Limiting duration of bare soil, e.g., to periods when crop is competing with other vegetation for water, nutrients

Other (describe)

3.06-a1 SUPPLIERS and/or SUB-SUPPLIERS monitor and record basic soil health indicators for FIELD PRODUCTION sites.

Possible Score 30

Points Earned _____

Memo: _____

3.06-a1 *Verify* For full points, the following basic indicators must be monitored and recorded for all FIELD PRODUCTION sites.

Fertility (N, P, K) as per soil or tissue sample

pH

3.06-a2 SUPPLIERS and/or SUB-SUPPLIERS monitor and record advanced soil health indicators.

Possible Score 10

Points Earned _____

Memo: _____

3.06-a2 *Verify* FOR FULL POINTS, at least four of the following must be monitored and recorded for all FIELD PRODUCTION sites:

Compaction

Infiltration Rate

Soil respiration

Structure

Aggregate stability

Texture

Earthworm populations

Salinity

Available water capacity
Surface hardness
Organic matter
Active carbon
Potentially mineralizable N
Root health rating
Micronutrients

3.06-b SUPPLIERS and/or SUB-SUPPLIERS implement adequate protective/corrective measures to improve and maintain soil health.

Possible Score 40

Points Earned _____

Memo: _____

3.06-b *Verify* Protective/corrective measures have been implemented to maintain and improve soil health such as:

Reduced tillage
Cover crops/green manures
Flotation tires
Reduced tire air pressure
Dual wheels
Fixed travel lanes
Reduced trips across field
Soil amendments
Other (describe)

3.07-a1 SUPPLIER does not burn trash.

Possible Score 20

Points Earned _____

Memo: _____

3.07-a1 *Verify* SUPPLIER verification:

Burn piles are not used to dispose of debris (garbage, broken pallets) at processing plants or production sites
Burning vegetation is limited to crops where it is an accepted
Best Management Practice (BMP), e.g., Extension-recommended burning of infected plant material to reduce disease
inoculum. Describe BMP in memo.

3.07-a2 SUB-SUPPLIERS do not burn trash.

Possible Score 30

Points Earned _____

Memo: _____

3.07-a2 *Verify* SUB-SUPPLIER verification:

Burn piles are not used to dispose of debris (garbage, broken pallets) at processing plants or production sites.

Burning vegetation is limited to crops where it is an accepted.

Best Management Practice (BMP), e.g., Extension- recommended burning of infected plant material to reduce disease inoculum. Describe BMP in memo.

3.08-a SUPPLIER has formed a multidisciplinary IPM advisory team. (Only one team is required per supplier regardless of the number of crops produced.)

Possible Score 50

Points Earned _____

Memo: _____

3.08-a *Verify* FOR FULL POINTS, team must include the following:

Insect pest management expertise

Disease management expertise

Weed management expertise

Agronomy/horticulture expertise

Representative from Extension, NRCS, Soil & Water Conservation District (optional)

3.08-b Sustainable Ag/IPM team meets at least annually to review performance and identify and plan improvements. Note meeting frequency and date of last meeting in memo.

Possible Score 50

Points Earned _____

Memo: _____

3.09-a SUPPLIER implements measures to improve PROCESSING WATER use efficiency.

Possible Score 20

Points Earned _____

Memo: _____

3.09-a *Verify* Implemented measures may include:

Upgrading processing equipment (describe)

Water reuse

Water per unit of production

Monitor established water budget for plant

Low flow nozzles

Other (describe)

3.09-b SUPPLIER and/or SUB-SUPPLIERS implement measures to improve IRRIGATION WATER use efficiency.

Possible Score 20

Points Earned _____

Memo: _____

3.09-b *Verify* Implemented measures may include:

Drop nozzles installed on overhead irrigation

Furrow/flood irrigation replaced by overhead or drip

Laser leveling flood-irrigated fields

Shutoff devices triggered by rainfall

Flow meters on irrigation pumps

Water budget in place

Use of soil and plant moisture technologies such as soil probes, precipitation / evaporation monitoring

Other (describe)

3.09-c1 SUPPLIER measures and reports performance, e.g., processing water use per unit of production. Describe in memo.

Possible Score 10

Points Earned _____

Memo: _____

3.09-c2 SUB-SUPPLIERS measure and report performance, e.g., irrigation water use per unit of production. Describe in memo.

Possible Score 10

Points Earned _____

Memo: _____

3.09-d SUPPLIER and/or SUB-SUPPLIERS implemented measures to improve irrigation water quality.

Possible Score 20

Points Earned _____

Memo: _____

3.09-d *Verify* Implemented measures may include.

Sediment / drainage = establish vegetation cover (hedgerows, herbaceous barriers, windbreak/shelterbelts, vegetated field borders) in areas sensitive to erosion that drain into waterways; contour buffer strips/terracing; conservation tillage; mulching around crops and cover cropping; and cross wind trap strips/planting perpendicular to the prevailing wind direction.

Salinity = identify saline recharge and discharge areas by testing; manage irrigation water to minimize salt delivery to surface and ground water.

Nutrient management = establish minimum setback distance (approx. 35 feet) between application area and closest waterway (includes canals, ditches, sink holes, etc.)

Pest management = use "smart sprayer" and other technologies that improve application precision; minimum setback distance ((approx. 35 feet) between application area and closest waterway (includes canals, ditches, sink holes, etc.)

3.10-a1. SUPPLIER implements measures to reduce PROCESSING PLANT energy use.

Possible Score 20

Points Earned _____

Memo: _____

3.10-a1 *Verify* Implemented measures may include:

Improving energy efficiency of processing equipment

Undergoing an energy use audit and implementing recommendations

Electrical submetering to track energy use by areas of a facility

Other (describe)

3.10-a2 SUPPLIER and/or SUB-SUPPLIERS implement measures to reduce FIELD PRODUCTION energy use.

Possible Score 20

Points Earned _____

Memo: _____

3.10-a2 *Verify* Implemented measures may include:

Tractor auto-steering, reduced tillage or other practices to reduce trips cross the field

Improving energy efficiency of irrigation pumps

Reduction in petroleum based inputs (e.g., petroleum based fertilizers)

Undergoing energy use audit and implementing recommendations

Other (describe)

3.10-b1 SUPPLIER implements measures to reduce PROCESSING PLANT use of non-renewable energy.

Possible Score 20

Points Earned _____

Memo: _____

3.10-b1 *Verify* Implemented measures may include:

- Transition to bio-diesel
- Transition to ethanol
- Transition to wind energy
- Transition to solar energy
- Purchase of wind/solar energy
- Carbon credit
- NOx credit
- Other (describe)

3.10-b2 SUPPLIER and/or SUB-SUPPLIERS implement measures to reduce FIELD PRODUCTION use of non-renewable energy.

Possible Score 20
 Points Earned _____

Memo: _____

3.10-b2 *Verify* Implemented measures may include:

- Transition to bio-diesel
- Transition to ethanol
- Transition to wind energy
- Transition to solar energy
- Purchase of wind/solar energy
- Carbon credit
- NOx credit
- Other (describe)

3.10-c1 SUPPLIER measures and report performance, e.g., processing plant fuel use per unit of production or transition to renewable fuels. Describe in memo.

Possible Score 5
 Points Earned _____

Memo: _____

3.10-c2 SUB-SUPPLIERS measure and report performance, e.g., overall fuel use per unit of production or transition to renewable fuels. Describe in memo.

Possible Score 5
 Points Earned _____

Memo: _____

3.11-a1 SUPPLIER reuses resources onsite.

Possible Score 20

Points Earned _____

Memo: _____

3.11-a1 *Verify* FOR FULL POINTS, SUPPLIER should reuse all resources available for reuse. These may include:

Processing waste is land-spread or fed to animals

Processing water is reused for irrigation

Plant material from field operations is reused, e.g., prunings are chipped and returned to soil

Other (describe)

3.11-a2 SUB-SUPPLIER reuses resources onsite.

Possible Score 20

Points Earned _____

Memo: _____

3.11-a2 *Verify* FOR FULL POINTS, SUB-SUPPLIER should reuse all resources available for reuse. These may include:

Processing waste is land-spread or fed to animals

Processing water is reused for irrigation

Plant material from field operations is reused, e.g., prunings are chipped and returned to soil

Other (describe)

3.11-b1 SUPPLIER measures and records performance, e.g., types/amounts of on-site reuse of renewables. Describe in memo.

Possible Score 5

Points Earned _____

Memo: _____

3.11-c1 SUB-SUPPLIERS measure and record performance, e.g., types/amounts of on-site reuse of renewables. Describe in memo.

Possible Score 5

Points Earned _____

Memo: _____

3.12-a1 SUPPLIER recycles materials.

Possible Score 20

Points Earned _____

Memo: _____

3.12-a1 *Verify* FOR FULL POINTS, SUPPLIER should recycle all recyclable resources. These may include:

- Glass Metal Paper Plastics
- Batteries
- Computers
- Pesticide containers
- Other (describe)

3.12-a2 SUB-SUPPLIERS recycle materials.

Possible Score 20
Points Earned _____

Memo: _____

3.12-a2 *Verify* FOR FULL POINTS, SUB-SUPPLIERS should recycle all recyclable resources. These may include:

- Glass Metal Paper Plastics
- Batteries
- Computers
- Pesticide containers
- Other (describe)

3.12-b1 SUPPLIER measures and records performance, e.g., types/amounts recycled. Describe in memo.

Possible Score 5
Points Earned _____

Memo: _____

3.12-b2 SUB-SUPPLIERS measure and record performance, e.g., types/amounts recycled. Describe in memo.

Possible Score 5
Points Earned _____

Memo: _____

3.12-c1 SUPPLIER purchases product with recycled content and/or reduces waste.

Possible Score 10
Points Earned _____

Memo: _____

3.12-c1 *Verify* Implemented purchases may include:

- Recycled card board
- Recycled office paper
- Recycled pallets
- Recycled building supplies
- Other

3.13-a1 SUPPLIERS/SUB-SUPPLIERS maintain fair and open communications and mutual agreements with employees and trade partners.

Possible Score 20

Points Earned _____

Memo: _____

3.13-a1 *Verify* Implemented measures may include:

- Employee involvement in decision making
- Financial/other performance measures transparency
- Formal employee grievance procedures
- Trade/partner customer satisfaction surveys
- Other (describe)

3.13-b Has SUPPLIER been involved in significant disputes with customers, trade partners or employees (e.g., strikes, litigation) since the previous audit or within the previous three years if a new supplier? If yes, describe in memo. (Informational only, does not affect score.)

Possible Score 0

Yes No

Memo: _____

3.13-c Are any significant disputes open or unresolved? If yes, please explain in memo. (Informational only, does not affect score.)

Possible Score 0

Yes No

Memo: _____

3.14-a1 SUPPLIER provides opportunities for employee advancement.

Possible Score 20

Points Earned _____

Memo: _____

3.14-a1 *Verify* Advancement opportunities may include:

- Employee education and cost share
- Education leave
- Internal advancement policy vs. external hires
- In-house education and training
- Other (describe)

3.14-b1 SUPPLIER measures and records performance, e.g., employee participation rates, dollar investment, etc.

Possible Score 5
Points Earned _____

Memo: _____

3.15-a1 SUPPLIER provides rewards/incentives for innovation and improvement.

Possible Score 20
Points Earned _____

Memo: _____

3.15-a1 *Verify* Rewards/incentives may include:

- Profit sharing with employees/trade partners
- Incentive bonus for employees
- Quality bonus to suppliers
- Safety incentives
- Other (describe)

3.15-a2 SUB-SUPPLIERS provide rewards/incentives for innovation and improvement.

Possible Score 20
Points Earned _____

Memo: _____

3.15-a2 *Verify* Rewards/incentives may include:

- Profit sharing with employees/trade partners
- Incentive bonus for employees
- Quality bonus to suppliers
- Safety incentives
- Other (describe)

3.15-b1 SUPPLIER measures and reports performance, e.g., profit sharing results.

Possible Score 5

Points Earned _____

Memo: _____

3.15 c1 Supplier implements socially responsible employee practices.

Possible Score 20

Points Earned _____

Memo: _____

3.15-c1 *Verify* Implemented practices may include:

- Follows child labor laws
- Meals provided for labor
- Housing provided for labor
- Transportation provided to labor
- Safety program
- Retirement program
- Insurance plan
- Profit-sharing plan
- Other

3.15 d1 Sub-Supplier implements socially responsible employee practices.

Possible Score 20

Points Earned _____

Memo: _____

3.15-d1 *Verify* Implemented practices may include:

- Follows child labor laws
- Meals provided for labor
- Housing provided for labor
- Transportation provided to labor
- Safety program
- Retirement program
- Insurance plan
- Profit-sharing plan
- Other

3.16-a SUPPLIER has a written sustainability plan addressing company operations.

Possible Score 50

Points Earned _____

Memo: _____

3.16-a *Verify* Goals for improving sustainability indicators may include:

- Logistics
- Purchasing Practices
- Packaging
- Sensitive area/biodiversity protection
- Environmental emergency management

3.17-a SUPPLIER communicates improvements in stewardship indicators.

Possible Score 30

Points Earned _____

Memo: _____

3.17-a *Verify* Improvements in stewardship indicators and communication methods may include:

- Sensitive area/biodiversity protection
- Websites
- Soil erosion control/soil health improvement
- Water, energy use efficiency
- Reuse/recycling
- Employee/trade partner relations
- Employee communications
- Annual performance report
- Shareholder communications
- Other (describe)

3.17-b SUB-SUPPLIERS improvements in stewardship indicators are communicated by SUPPLIER or SUB-SUPPLIER.

Possible Score 20

Points Earned _____

Memo: _____

3.17-b *Verify* Improvements in stewardship indicators and communication methods may include:

- Sensitive area/biodiversity protection
- Websites
- Soil erosion control/soil health improvement
- Water, energy use efficiency
- Reuse/recycling
- Employee/trade partner relations
- Employee communications
- Annual performance report
- Shareholder communications
- Other (describe)

3.18-a On-farm research been conducted or supported financially or otherwise in past year. List and describe in memo.

Possible Score 25
Points Earned _____

Memo: _____

3.18-b Science-based procedures are used for on-farm research.

Possible Score 25
Points Earned _____

Memo: _____

3.18-b *Verify* Science-based procedures may include:

- Check or controls are used
- Quantitative results are documented in writing
- Other

Scored Crop-Specific Standards

4.01-a SUPPLIER has access to IPM information resources.

Possible Score 10
Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.02-a SUPPLIER identifies key pests (those which usually require action to prevent economic losses) and understands key pest biology.

Possible Score 100

Crop: _____

Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.02-a *Verify* FOR FULL POINTS, supplier should be able to identify pest life cycle in relation to crop growth stages, crop-damaging life stage and important behaviors related to pest management. Key pest lists may include:

Crop: _____

- Insect pests
- Diseases
- Weeds
- Other (describe)

Crop: _____

- Insect pests
- Diseases
- Weeds
- Other (describe)

4.03-a SUPPLIER identifies effective non-chemical and chemical strategies to prevent losses by each key pest.

Possible Score 100

Crop: _____

Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.03-a *Verify* FOR FULL POINTS, strategies should include both chemical and non-chemical options for each key pest, such as the following:

Crop: _____

- Cultural
- Mechanical
- Biological
- Chemical
- Other (describe)

Crop: _____
Cultural
Mechanical
Biological
Chemical
Other (describe)

4.04-a SUPPLIER/SUB-SUPPLIERS implements effective scouting, sampling and monitoring techniques for all key pests for which these techniques are available.
Possible Score 100

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.04-a *Verify* Strategies should include systemic application of one or more of the following for each key pest:

Crop: _____
Visual sampling
Insect traps, sweep nets
Weed mapping
Weather conditions
Extension crop/region pest alerts/forecast
Other (describe)

Crop: _____
Visual sampling
Insect traps, sweep nets
Weed mapping
Weather conditions
Extension crop/region pest alerts/forecast
Other (describe)

4.05-a SUPPLIER/SUB-SUPPLIERS use science-based action thresholds to determine when to take action for each key pest for which thresholds are available.
Possible Score 100

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____
Memo: _____

4.05-a *Verify* Thresholds may include the following:

Crop: _____
Visual sampling counts for pests or damage
Trap, sweep net counts
Specific weather conditions favorable to disease development
Economic Threshold
Other (describe)
Crop: _____
Visual sampling counts for pests or damage
Trap, sweep net counts
Specific weather conditions favorable to disease development
Economic Threshold
Other (describe)

4.06-a Pesticide applications are tied to a documented need.

Possible Score 40

Crop: _____
Points Earned _____
Memo: _____

Crop: _____
Points Earned _____
Memo: _____

4.06-a *Verify* Documented need may include the following:

Crop: _____
Pest over threshold based on scouting
Specific weather conditions favorable to disease
Written document supporting the need for preventative application
Extension regional pest alerts
Crop and site-specific history of pest problems
Other (describe)

Crop: _____
Pest over threshold based on scouting
Specific weather conditions favorable to disease
Written document supporting the need for preventative application
Extension regional pest alerts
Crop and site-specific history of pest problems
Other (describe)

4.06-b Total pesticide use, e.g., pounds of active ingredient, is measured and recorded.
Possible Score 20

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.06-c Pesticide use is tracked and reduced over time by transitioning to non-chemical strategies.
Possible Score 40

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.06-c *Verify* Non-chemical strategies may include:

Crop: _____
Application techniques: e.g., auto-steering, spot application
Cultural: e.g., insect trapping, barriers
Biological: conserving, importing beneficial insects
Other (describe)

Crop: _____
Application techniques: e.g., auto-steering, spot application
Cultural: e.g., insect trapping, barriers
Biological: conserving, importing beneficial insects
Other (describe)

4.07-a Nutrient application rates reflect available nutrients and projected crop need, i.e., by nutrient management planning.

Possible Score 40

Crop: _____

Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.07-a *Verify* FOR FULL POINTS, nutrient application rates must be determined by one or more of the following:

Crop: _____

- Soil sampling
- Foliar analysis
- Nutrient crediting from prior to concurrent crops
- Crop nutrient removal and requirements
- Other science-based techniques (describe)

Crop: _____

- Soil sampling
- Foliar analysis
- Nutrient crediting from prior to concurrent crops
- Crop nutrient removal and requirements
- Other science-based techniques (describe)

4.07-b Nutrient use efficiency, e.g., use per unit of production, is measured and recorded.

Possible Score 20

Crop: _____

Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.07-c Nutrient use efficiency is tracked and improved over time by transitioning to alternative strategies.

Possible Score 40

Crop: _____

Points Earned _____

Memo: _____

Crop: _____
Points Earned _____
Memo: _____

4.07-c *Verify* Strategies may include the following:

Crop: _____
Auto-steering
Variable rate application
Cover crops, green manures
Crop rotations with legumes
Reduced tillage
Timing application to match crop need, split applications
Other (describe)

Crop: _____
Auto-steering
Variable rate application
Cover crops, green manures
Crop rotations with legumes
Reduced tillage
Timing application to match crop need, split applications
Other (describe)

4.08-a SUPPLIER and/or SUB-SUPPLIERS meet minimum continuing education requirements for pesticide applicator licensing/certification.

Possible Score 20

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.08-b SUPPLIER and/or SUB-SUPPLIERS participated in IPM/sustainable ag training events in the previous year beyond minimum legal requirements.

Possible Score 40

Crop: _____
Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.08-b *Verify* FOR FULL POINTS, both SUPPLIER and SUB-SUPPLIER representatives must have participated in one or more events. Training events may include the following:

Crop: _____

Sustainable ag/IPM training sessions at industry association meetings

Field days held on farms in season

Certified web based training

Extension meetings

Other (describe)

Crop: _____

Sustainable ag/IPM training sessions at industry association meetings

Field days held on farms in season

Certified web based training

Extension meetings

Other (describe)

4.08-c Multiple IPM/sustainable ag topics were covered in training within the last year.

Possible Score 20

Crop: _____

Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.08-c *Verify* FOR FULL POINTS, training within the past year must include three or more topics. Training topics may include:

Crop: _____

Soil health/quality management

Biological controls

Scouting, monitoring and/or thresholds

New pests

Resistance management

Other (describe)

Crop: _____
Soil health/quality management
Biological controls
Scouting, monitoring and/or thresholds
New pests
Resistance management
Other (describe)

4.08-d Training records are written and include staff attending, name of session, topics addressed and date.
Possible Score 10

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.08-e SUPPLIER and/or SUB-SUPPLIERS provide, host or support events that include IPM/sustainable ag training.
Possible Score 10

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.09-a SUPPLIER/SUB-SUPPLIERS identify specific pesticide uses most at risk for pest resistance and can identify pesticides with different modes of action.
Possible Score 40

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.09-a *Verify* FOR FULL POINTS, both of the following should be true:

Crop: _____
Staff or consultant responsible for pesticide selection can group pesticides used by modes of action
These staff are aware of pesticide uses most at risk of resistance
Other (describe)

Crop: _____
Staff or consultant responsible for pesticide selection can group pesticides used by modes of action
These staff are aware of pesticide uses most at risk of resistance
Other (describe)

4.09-b In addition to reducing reliance on pesticides through scouting, monitoring, thresholds and/or spot treatments, other strategies are used to delay resistance.

Possible Score 50

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.09-b *Verify* Other strategies to delay resistance to pesticides may include:

Crop: _____
Rotate annual crops where appropriate
Establish refuges (untreated areas) where appropriate
Rotate or combine modes of action for pesticide uses most at risk of resistance
Use maximum application rates for pesticide uses most at risk where appropriate
Rotate chemical controls with non-chemical methods where appropriate
Biological control
Other (describe)

Crop: _____
Establish refuges (untreated areas) where appropriate
Rotate or combine modes of action for pesticide uses most at risk of resistance
Use maximum application rates for pesticide uses most at risk where appropriate
Rotate chemical controls with non-chemical methods where appropriate
Biological control
Other (describe)

4.09-c SUPPLIER/SUB-SUPPLIERS formally assess performance of pesticides most at risk of resistance to detect and report problems early.

Possible Score 10

Crop: _____

Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.09-c *Verify* Performance assessment may include:

Crop: _____

- In-field check or comparison strips
- Post-treatment pest counts in field
- Laboratory testing of samples collected on site
- Other (describe)

Crop: _____

- In-field check or comparison strips
- Post-treatment pest counts in field
- Laboratory testing of samples collected on site
- Other (describe)

4.10-a SUPPLIER/SUB-SUPPLIERS rank pesticides used by potential for residue on crop at harvest or post-harvest, and reduce/restrict use of those with greatest residue potential.

Possible Score 20

Crop: _____

Points Earned _____

Memo: _____

Crop: _____

Points Earned _____

Memo: _____

4.10-b SUPPLIER/SUB-SUPPLIERS rank pesticides used by acute toxicity to mammals and reduce use of most toxic.

Possible Score 20

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.10-b *Verify* Pesticide ranking by acute toxicity to mammals includes:

Crop: _____
Using signal word on product label, "Caution" signifying least-toxic
Other (describe)

Crop: _____
Using signal word on product label, "Caution" signifying least-toxic
Other (describe)

4.10-c SUPPLIER/SUB-SUPPLIERS rank pesticides used by toxicity to beneficials, including pollinators, and reduce use of most toxic.

Possible Score 20

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.10-c *Verify* Pesticide ranking by toxicity to beneficial insects, including pollinators, is based on:

- Pollinator safety information on pesticide labels and/or EPA Pollinator Protection Box
- New York State IPM Environmental Impact Quotient (EIQ) Calculator output
- How to Reduce Bee Poisoning from Pesticides* (Table 4), Pacific Northwest Extension Publication
- Wild Pollinators of Eastern Apple Orchards and How to Conserve Them* (page 17), Northeastern IPM Center, Cornell University, Penn State University, Xerces Society for Invertebrate Conservation
- The Pesticide Manual* by the British Crop Production Council
- Windows Pesticide Screening Tool: Win-PST (<http://go.usa.gov/Kok>)
- Pesticide Risk Tool (www.pesticiderisk.org)
- Other (describe)

4.10-d SUPPLIER/SUB-SUPPLIER rank pesticides used by chronic toxicity to mammals and reduce use of most toxic.

Possible Score 20

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.10-d *Verify* Pesticide ranking by chronic toxicity to mammals may include:

Crop: _____
SDS information on chronic hazards
Carcinogenicity rating by US EPA, international agency for research on cancer and/or California Proposition 65
Reproductive/developmental toxicity (EPA, CA Prop 65)
Endocrine system hazard rating
Other (describe)

Crop: _____
SDS information on chronic hazards
Carcinogenicity rating by US EPA, international agency for research on cancer and/or California Proposition 65
Reproductive/developmental toxicity (EPA, CA Prop 65)
Endocrine system hazard rating
Other (describe)

4.10-e SUPPLIER/SUB-SUPPLIERS rank pesticides used by eco-toxicity and reduce use of those with greatest hazards.

Possible Score 20

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.10-e *Verify* Pesticide ranking by eco-toxicity hazards may include:

Crop: _____
Groundwater contamination
Surface water contamination
Birds
Aquatic organisms
Amphibians

Ozone depleter
Volatile organic compounds (VOCs)
Other (describe)

Crop: _____
Groundwater contamination
Surface water contamination
Birds
Aquatic organisms
Amphibians
Ozone depleter
Volatile organic compounds (VOCs)
Other (describe)

4.11-a SUPPLIER/SUB-SUPPLIERS protect bees and other pollinators from pesticide applications.
Possible Score 40

Crop: _____
Points Earned _____

Memo: _____

Crop: _____
Points Earned _____

Memo: _____

4.11-a *Verify* Strategies to protect pollinators from pesticide applications may include:

- IPM practices are implemented to minimize pesticide use and risk to pollinators
- Pesticides toxic to bees are not applied to crops in bloom
- Pesticides are not allowed to drift onto adjacent blooming plants that are attractive to pollinators
- Pollinator habitat outside of cropped areas is identified, and if present, ≥ 20 ft. buffers are maintained around habitat to reduce risk from pesticide drift
- Forecasted low temperatures or dew are considered when applying pesticides toxic to bees to cropped areas where bees are expect to be foraging; residues may remain toxic to bees at least twice as long under these conditions
- Pesticides toxic to bees are applied when most pollinators are less active, e.g., evening, night
- When managed hives are present on the farm, beekeepers are informed when, where, how and what pesticide(s) are being applied
- Apiaries and sites on the farm containing crops sensitive to pesticide drift and are registered online at www.driftwatch.org or a similar system by the supplier/sub-supplier to enhance communication between growers and pesticide applicators to reduce drift incidents
- Other (describe)