



“Unearthing Potential Since 1907”



Roy Farms, Inc., a fourth generation family owned and operated farm in Moxee, WA is a premier grower of hops, blueberries and apples. Roughly 40% of our acreage is certified organic through Oregon Tilth, and close to 100% of our farmed land is certified Salmon-Safe.

With 112 years of farming in the Yakima Valley under our hats, Roy Farms has come to learn a thing or two about progressive, sustainable farming practices. Investments in cutting edge science-based irrigation, and customized nutrition technology help reduce volume and applications.

Selective cover crops planted in field rows such as rye, buckwheat and hairy vetch help reduce erosion and noxious weed growth. It also aids in stimulating microbial activity in the soil, attracts beneficials, and ultimately reduces and/or eliminates the need for high-risk pesticide application.

Routine scouting for both pests and beneficials, combined with leaf and soil analysis help determine the overall health of the soil and crop. Taking a proactive vs reactive approach at troubleshooting also aides in the need for high-risk pesticides. Roy Farms eliminated the use of glyphosate products farm-wide in 2018.

Meeting or exceeding 3rd party certifications hold us accountable to our commitment to sustainable farming practices and conserving natural resources. We are committed to reducing water and CO₂e consumption per lb of crops produced.

It is easier said than done to attempt to deliver the same quality of product and production, while lowering our overall environmental impact on hops. Our team of dedicated employees are working diligently to be industry leaders at accomplishing this goal.

Food/Human Safety & Sustainability on the Farm

"consistently improving agriculture for the good of all stakeholders, without compromise"

Global Food Safety Initiative (GFSI) certifications:

"GFSI organization is established and maintained by the international trade organization to benchmark food safety standards for manufacturers, as well as farm assurance standards."



- **GLOBALG.A.P.** – certified since 2005. First US hop farm to become certified. Developed the Hops sub-scope standard in 2017



- **SQF** – certified since 2014. First hop processing facility to be SQF certified

USDA Organic certification:

"USDA certified organic foods are grown and processed according to federal guidelines addressing soil quality, pest and weed control and the use of additives."



- **USDA Organic** – certified in hops since 2006. Blueberries certified in 2016

Kosher certification:

"Foods that are produced under the religious dietary practice that is rooted in Jewish tradition."



- **Circle K Kosher** certified in processing facilities since 2014

Salmon-Safe certification:

"A non-profit eco label certifying land management practices so Pacific salmon can thrive in West Coast watersheds"



- **Salmon-Safe** – First hop farm in WA to be certified in 2014. Blueberries becoming certified in 2017



Global Reporting Initiative (GRI):

"An international independent standards organization that helps businesses and governments understand and communicate their impacts on issues such as climate change, human rights and corruption."



- First Sustainability Report published in 2016 under the GRI guidelines

In Summary...

- A team of seven employees implement and maintain an efficient and robust food/human safety program – including training of over 800 employees annually
- In 2017 we anticipate participating in over 20 food safety/regulatory audits
- Created our own hands-on food/human safety videos that apply real life practices on our farm using our employees
- All farming practices undergo detailed risk assessments based on hazard analysis critical control points (HACCP); biological, chemical, physical and psychological (where necessary)
- HACCP Team consists of representatives from all departments, and meet monthly to review process flows and potential control/critical control points
- Mock Recalls are conducted annually
- Conduct job hazard analysis (JHA) on all job positions to assess potential risks and how they can be controlled through mechanical changes and PPE
- Partnering with GLOBALG.A.P. on the creation and implementation of a worldwide hop food safety standard
- Working closely with Hop Growers of America to petition to remove hops as produce from the FDA Food Safety Modernization Act (FSMA) - including inviting FDA to visit the farm to get a better overall understanding of hop production
- Partnering with BFI Native Seeds to catalog native species of plants and shrubs in our area to maintain and enhance biodiversity in non-producing sites
- Constant review of opportunities where improvements can be made on energy, biodiversity and employee health and welfare



DEVELOPMENT OF GLOBALGAP SUB-SCOPE:

In 2017, Roy Farms led the industry in the development of a GlobalGAP sub-scope specific to hop farming. Up until then, hops were certified as a “combinable crop”, where most of the checklist was N/A - and did not cover the drying or baling of hops.

Today, close to 50% of the US hop market is produced under GlobalGAP certification - a GFSI (Global Food Safety Initiative) scheme that includes sustainable farming practices through environmental stewardship and biodiversity enhancement.

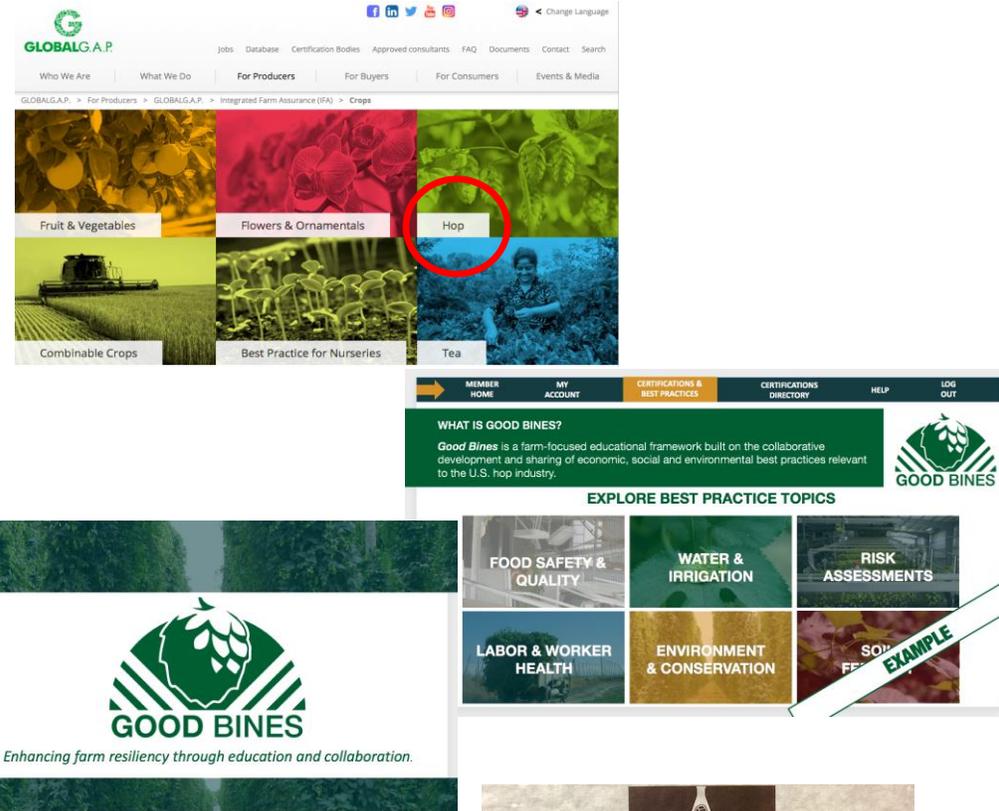
DEVELOPMENT OF HOP GROWERS OF AMERICA’S “GOOD BINES”:

Hop Growers of America’s Best Practice Committee – a collaborative group of hop growers, processors and brewers – developed a self assessment food safety and sustainability program “Good Bines.”

Modules include; food safety, sustainability, IPM, Soil & Fertility and Irrigation.

SALMON-SAFE & HOPS:

Roy Farms was the first WA hop farm to become Salmon-Safe certified in 2014. In 2015, three US major craft breweries publicly announce they would source 10% of their total hop purchases from hops certified under the Salmon-Safe program.



No such thing as a “one size fits all” standard for Ag that addresses food safety, sustainability, and environmental stewardship!

**graph taken from a 2014 presentation. Some information may not reflect current standard revisions.*

	16 Major Standards	GlobalGAP	Life Cycle Assessments	Salmon Safe	Rainforest A	SCS-001	Ethical Trading Initiative	Common Code for the Coffee Community	Marine Stewardship Council	Basel Criteria	Roundtable on Sust. Palm Oil	SA8000	Fair Trade Standards	IDF	SAI	EISA	Utz Certified
Environment	Ecosystems & Biodiversity	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓		✓	✓	✓
	Natural Resource Inputs	✓	✓	✓	✓	✓		✓		✓	✓		✓		✓		✓
	Manmade Inputs	✓	✓	✓	✓	✓		✓		✓			✓		✓		✓
	Energy Use & GHG Emissions	✓	✓					✓		✓			✓		✓		✓
	Waste Management	✓	✓	✓	✓	✓			✓	✓	✓		✓	✓	✓	✓	✓
	Production Practices	✓	✓	✓	✓	✓			✓	✓	✓		✓	✓	✓	✓	✓
Labor	Occupational Health & Safety	✓			✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓
	Terms of Employment				✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓
	Human Right in the Workplace				✓	✓	✓	✓		✓	✓	✓	✓		✓		✓
	General Employee/Family Welfare				✓	✓	✓	✓				✓	✓		✓	✓	✓
Economy & Community	Producers' Economic Viability					✓				✓	✓				✓		
	Flow of Economic Benefits				✓	✓				✓			✓		✓	✓	
	Social/Economic Rights of others				✓	✓		✓	✓	✓	✓						
	Business Ethics							✓		✓	✓						
	Education & Role-Modeling				✓						✓					✓	
Safety & Quality	Traceability	✓	✓		✓	✓		✓		✓					✓		✓
	Hygienic Production & Handling	✓				✓				✓				✓	✓	✓	✓
	Quality of Inputs	✓								✓				✓	✓		✓
	Quality Management Systems	✓				✓		✓					✓				✓