CANADIAN SOYBEAN QUALITY

Jason McNaughton
Vice-Chair - Board of Directors, Soy Canada
Food Products Marketing Manager, Hensall District Co-operative

February 16th, 2017

CANADIAN SOYBEAN QUALITY

- Global leader in producing top-quality soybeans for world markets
- Careful testing and monitoring by the Canadian Grain Commission (CGC) assures high quality, safety and compliance with the biotechnology approval processes of importing countries
- One of CGC's services is the Harvest sample program, an annual evaluation of the harvest quality of soybeans grown in Canada
- Canadian Food-Grade Database - GoSoy.ca
- Unmatched record for tracking the production and handling of food-grade and specialty trait soybeans, and assuring their delivery to the right customers

2020 HARVEST SAMPLE PROGRAM

Food Grade Protein

	2020*			2019	2018	2017	2016	2015
	Minimum	Maximum	Mean	Mean	Mean	Mean	Mean	Mean
Quebec	38.4	48.4	42.0	41.0	41.3	42.5	42.6	43.6
Ontario	33.6	46.5	41.5	41.4	42.0	41.0	42.1	41.2
Prairies	35.9	42.7	39.2	39.2	38.0	38.7	36.4	-
Canada	33.6	48.4	41.4	41.2	41.8	41.4	42.2	41.9

Source: Canadian Grain Commission Harvest Sample Program

Food Grade Oil

	2020*			2019	2018	2017	2016	2015
	Minimum	Maximum	Mean	Mean	Mean	Mean	Mean	Mean
Quebec	18.2	22.7	20.8	20.7	22.0	19.9	21.5	21.1
Ontario	18.3	24.5	21.3	20.7	21.8	20.4	21.8	21.7
Prairies	18.9	22.6	20.8	20.7	21.2	21.2	22.5	-
Canada	18.2	24.5	21.1	20.7	21.8	20.3	21.7	21.5

Source: Canadian Grain Commission

- *** Preliminary quality data of Canadian food-type soybeans 2020"**
- **"Quality of Canadian food-type soybeans" 2015, 2016, 2017, 2018, 2019**

GOSOY.CA


OSACC
Information
Performance
Food Grade Data
Downloads
Canola
Login
OSACC
Ontario Soybean And Canola Committee
Canadian Food-Grade Soybean Database
Frequently Asked Questions
Download a full PDF report
Search the database
Search by variety

GOSOY.CA

Canadian Food-Grade Soybean Database

OSACC
Ontario Soybean And Canola Committee

Search criteria: 1 selected variety.

All data was obtained from analyses of Canadian soybeans grown in the Ontario Soybean Variety Trials. Average values are shown in the table. Mouse over the average value to show the range. Table can be sorted in ascending or descending order by clicking on the field headings. To sort on multiple fields, hold the shift key down.

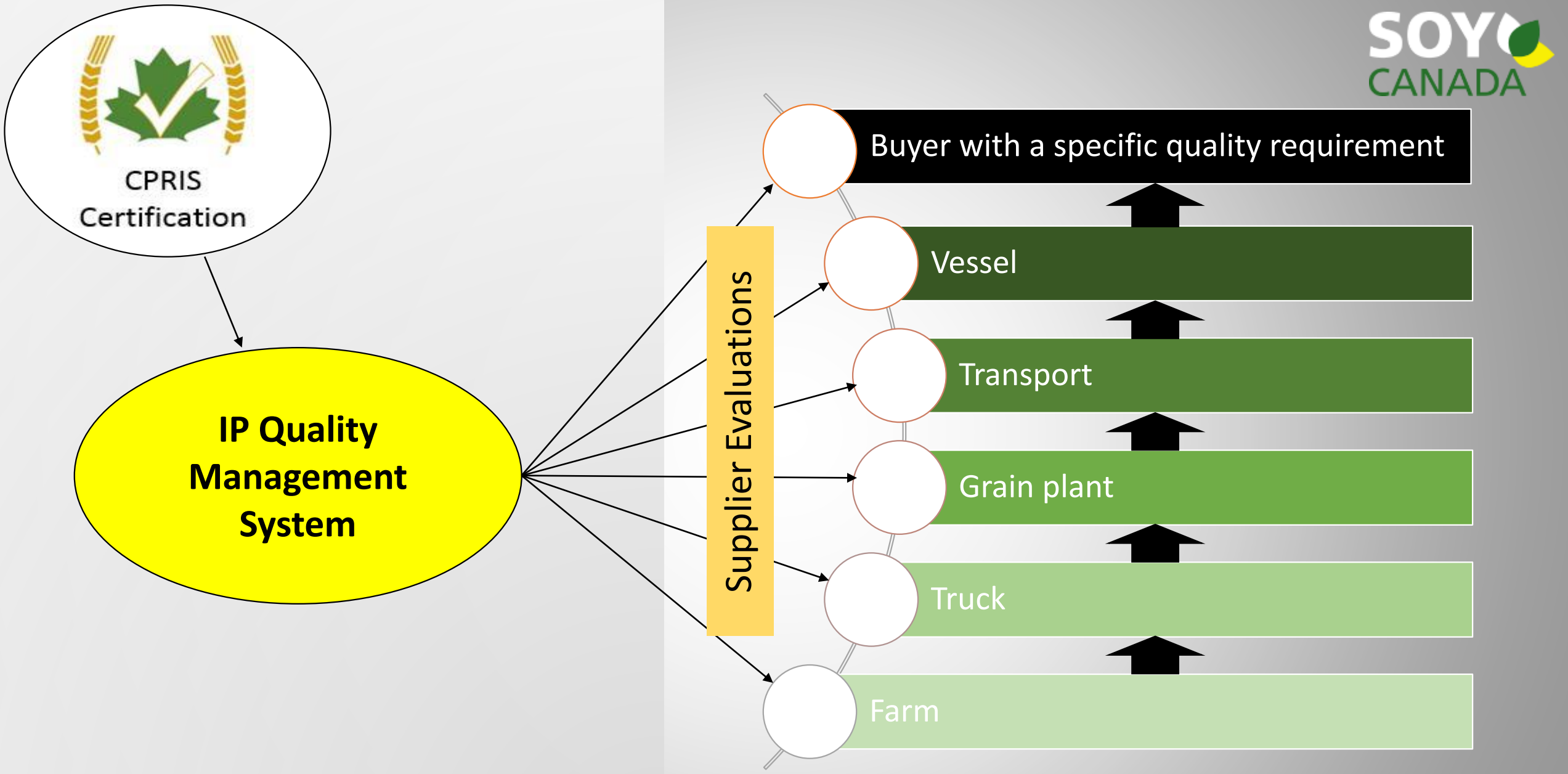
Sources of Canadian food grade soybeans for export or planting.

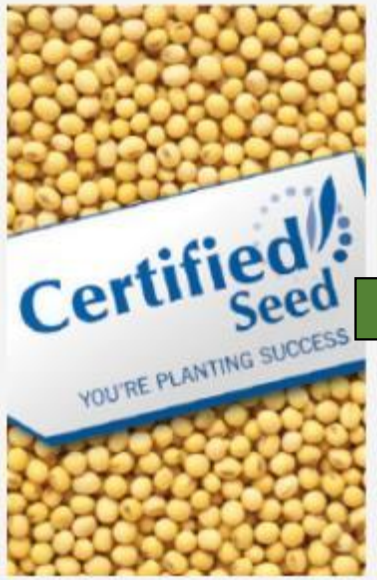
Years	Variety	Test Area[7]	Hilum Colour	Seed Size (g/100 seeds)	Protein (% DM)[1]	Oil (% DM)	Sucrose (% DM)	Oligo-saccharides[2] (% DM)	Free Sugars[3] (% DM)	Total Carbohydrate[4] (% DM)	Total Isoflavones[5] (ppm)[6]
2016	Harovinton	MG 2 Early	Y	25.6	47.6	19.0	5.3	4.9	10.6	17.3	1590
2016	Harovinton	MG 2 Late	Y	27.2	45.9	20.4	5.3	4.7	10.5	17.0	1840
2006	Harovinton	MG 2 Early	Y	23.8	47.1	18.0	5.8	4.3	10.6	17.5	2760
2006	Harovinton	MG 2 Late	Y	21.7	44.0	19.5	6.4	4.4	11.2	17.9	3030
2005	Harovinton	MG 2 Early	Y	22.6	46.1	19.5	5.1	5.4	11.1	17.4	1810
2005	Harovinton	MG 2 Late	Y	22.4	45.2	20.0	5.8	5.0	11.2	18.3	2160

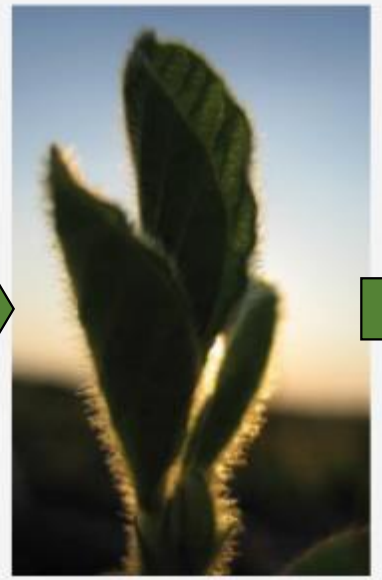
[1] % of dry matter basis. To convert from composition on a dry matter basis to composition at 13% moisture, multiply the value by 0.87.
[2] stachyose and raffinose
[3] includes all soluble sugars
[4] includes soluble and non-soluble sugars
[5] the sum of genistein, daidzein and glycitein aglycone equivalents
[6] parts per million (equivalent to mg/kg or µg/g)
[7] maturity group for the test sites at which the variety was grown

CANADIAN IDENTITY PRESERVED RECOGNITION SYSTEM (CIPRS)

- Volunteer system to verify and certify identity preserved (IP) programs
- Created through a close partnership of the Canadian Grain Commission (CGC) and the Canadian industry in consultation with global buyers
  - CGC oversight and administered certification
- National standard for IP programs and traceability
- Audits by 3rd party private sector accredited auditors


CPRIS
Certification
IP Quality Management System
Supplier Evaluations
Buyer with a specific quality requirement
Vessel
Transport
Grain plant
Truck
Farm





Seed growers provide certified seed that ensures variety purity.

To qualify for CIPRS, soybeans must be traceable right back to a certified seed grower.

Throughout the growing season
IP soybean crops are managed according to the grain elevator's specifications . Farmers clean equipment meticulously to prevent contamination

At harvest
Farmers carefully clean equipment to prevent other seeds from mingling with IP crops.

IP soybeans are then stored in separate bins.

At the elevator
IP soybeans are sampled and analyzed for purity and quality before unloading, and are then binned accordingly.

Third-party testing, analysis and documentation ensure best practises are followed and rigorous standards are met at every stage.

At the port
IP soybeans are loaded into containers that have been thoroughly inspected for soundness and suitability.

SOY CANADA

UNMATCHED QUALITY MANAGEMENT

	Canada	Other Countries / Other IP systems
One national program?	**YES.** Buyers know CIPRS certified suppliers have a good IP program with one national standard and certification system.	**NO.** There are many private sector standards and systems. Buyers must determine what each one means.
Trusted certification?	**YES.** System certified by CGC, a known and trusted government agency.	**UNCLEAR.** Systems certified by private sector. Buyers must determine whether each certification body is credible.
Strong quality management?	**YES.** Required by CIPRS. Suppliers are fully committed.	**UNCLEAR.** Quality management systems are not specially linked to IP programs. Level of company commitment to IP programs are unknown.

CANADIAN IDENTITY PRESERVED RECOGNITION SYSTEM (CIPRS)

- In 2018 CIPRS + HACCP Achieved Technical Equivalence by the Global Food Safety Initiative (GFSI)
- Technical Equivalence is limited to government-owned food safety certification programmes.

QUESTIONS?

Thank You!