

2022

Ontario Hybrid Corn Performance Trials

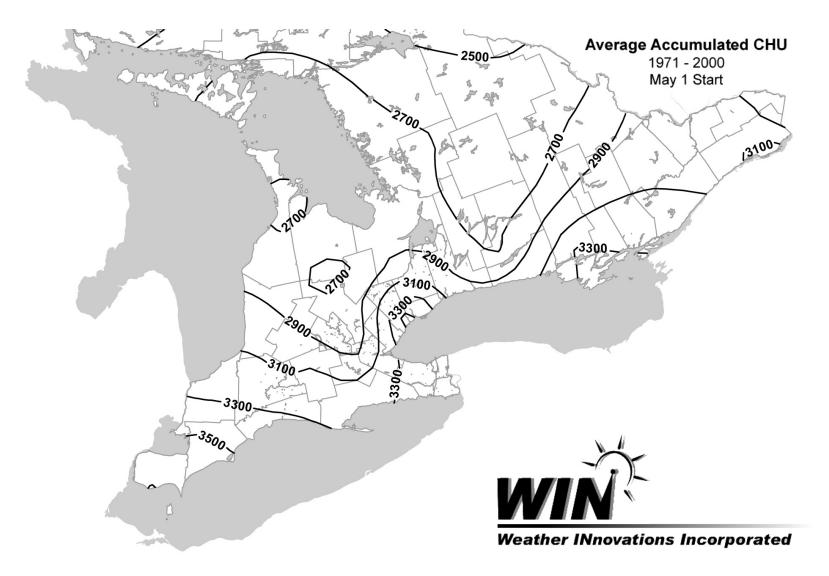
Data collected 2021-2022

Conducted by the Ontario Corn Committee • www.gocorn.net

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PDF files of this report Sortable on-line tables Yield x Moisture Content

Heat Units Available for Corn Production in Ontario



Notes: Corn Heat Unit ratings for all areas of the province are based on the average heat unit accumulation for the period from May 1 to the date in the fall when the long-term average daily temperature falls below 12°C or an occurrence of -2°C, whichever comes first.

ONTARIO CORN COMMITTEE

The ONTARIO CORN COMMITTEE is made up of representatives of Agriculture and Agri-Food Canada, the Ontario Ministry of Agriculture, Food and Rural Affairs, the University of Guelph, the Ontario Soil and Crop Improvement Association, the Grain Farmers of Ontario and the Canadian Seed Trade Association. Hybrid Performance trials are conducted each year by the following cooperating agencies:

Ridgetown Campus, University of Guelph;

Plant Agriculture Department, University of Guelph;

Winchester Research Station, University of Guelph,

Kent Ag Research Inc.,

Agriculture and Agri-Food Canada at Ottawa.

TESTING METHODS

Hybrids entered in the Hybrid Corn Performance Trials are selected by the seed companies. A testing fee is charged per hybrid per replication. A hybrid must be entered in all trials within a table.

In each trial, hybrids are replicated in a suitable experimental design. Trials are machine planted with an excess of seed and thinned at an early growth stage to obtain a uniform population. A row width of 30 inches is used in all trials. Plots consist of four rows of which the middle two rows are harvested for yield. Fertilizer rates may be higher than those recommended by OMAFRA to compensate for any variability in soil nutrient supply.

Most of the hybrids entered in the trials were treated with a seed treatment to control soil insects. Hybrids that were not treated with are not identified in the report. There was no significant damage from soil insects at any of the locations.

To determine the percentage of lodged plant, a count is made, immediately before harvest, of all plants broken below the ear and all plants which are leaning such that the ear is in the adjacent row or is otherwise unharvestable.

The moisture percentage of the grain is measured at harvest time. The weight of grain harvested from each plot is determined and the yield of shelled corn is calculated at 15% moisture. Test weights are recorded either during harvest, using combine-mounted monitoring equipment, or in the laboratory, using accepted procedures.

DUPLICATION OF THIS REPORT:

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INTERPRETATION OF RESULTS

Index - The index in the tables indicates a percent of the average of all hybrids included in the trial(s). Index figures above 100 reflect the percentage by which a hybrid is above the average, and index figures below 100 show the percent below average. Small differences in index (i.e. less than the LSD shown at the bottom of the table) are not significant. When a hybrid has a higher index over two years, this difference is probably real and should be considered when choosing a hybrid.

Hybrid selection should be based on the most data available. Greater emphasis should be put on averages from several locations and years because these provide a more accurate prediction of future performance than do single location results.

The average yield for each table is given in bushels per acre. You can calculate the actual yield for a hybrid by multiplying the average yield times its yield index and dividing by 100.

The average test weight is given in kg/h1 (kilograms per hectoliter). You can calculate the actual test weight of a hybrid by multiplying the average test weight times its test weight index and dividing by 100.

Within each table, hybrids are identified by brand and/or hybrid number or name. Hybrids are listed in approximate order of maturity based on heat unit ratings provided by the companies.

Corn Heat Units - Ratings for all areas of the province are based on the average heat unit accumulation for the period from May 1 to the date in the fall when the long-term average daily temperature falls below 12° C or an occurrence of -2° C, whichever comes first. Hybrid heat unit ratings have been assigned by the sponsoring company.

% Moisture - The accuracy of moisture measurement decreases as moisture content increases. Results for hybrids with very high moisture contents should be interpreted with caution.

% Lodging - "Lodged Plants" includes plants with stalks that are broken below the ear and plants leaning such that the ear is in the adjacent row or otherwise unharvestable. Because all hybrids in a trial are harvested on

the same date, the early hybrids within each table tend to show a greater amount of stalk breakage than do later hybrids. Stalk strength should be compared only with hybrids of the same maturity.

LSD (0.10) - The LSD is a measure of variability within the trial. There is a ninety percent probability that yield indices that differ by an amount greater than the LSD are different. Yield indices that differ by an amount less than or equal to the LSD should be considered to be equal. For example, if the LSD is 10, two hybrids with yield indexes of 110 and 101 should be considered to be equal.

Explanation of Codes for Special Genetic Traits

Code	GM Traits						
0	Conventional Hybrid						
4	Roundup Ready Corn 2						
6	VT Double PRO						
8	SmartStax						
14	Agrisure GT						
20	Agrisure Viptera 3111						
24	Optimum AcreMax Xtreme						
25	Optimum AcreMax Xtra						
27	Viptera						
28	Agrisure Above						
30	PowerCore Enlist						
31	SmartStax Enlist						
32	Trecepta						
33	Duracade						
34	DuracadeViptera						
36	Qrome						
37	Optimum AcreMax Leptra						

Notes:

The Ontario Corn Committee does not assess hybrids for Special Genetic Traits. Hybrid descriptions are based on information received from corn companies, as of November 2022. Although the Ontario Corn Committee believes the information contained in this report is accurate, growers are advised to consult dealers of the respective hybrids and products before making purchasing or management decisions. All hybrids included in this report have been fully approved for food and feed use in Canada and the United States. However, a number have not been approved for use in the European Union. Corn harvested from these non-EU approved hybrids must be delivered to a market that will not ship the grain or its processed products to Europe. For more information, contact your seed supplier. Information regarding the genetic traits carried by all commercially available hybrids and their acceptability for export can also be obtained from the Seeds Canada's "Corn Hybrid Database under the Resources tab" at:

https://seeds-canada.ca/corn-hybrid-database/

Explanation of Seed Treatment Codes

	Seed Treatments
-	No Treatment
Α	Acceleron 250
С	Cruiser Maxx 250
F	Fortenza
L	Lumivia
Р	Poncho 250

Seed Corn Dealers

Brand or			
Identification	Company	Address of Canadian Sponsor	Telephone
Brevant	Corteva Agriscience	7398 Queen's Line, PO Box 730, Chatham, ON N7M 5L1	1-800-265-9435
CROPLAN	Winfield United	3850 concession 15, St. Isidore, ON KOC 2B0	613-323-6846
De Dell	De Dell Seeds Inc	7095 Century Drive, Melbourne, ON NOL 1T0	519-264-2676
DEKALB	Bayer CropScience Inc.	160 Quarry Park Blvd, Calgary, AB T2C 3G3	1-888-283-6847
DLF	DLF Canada Inc.	1 Greenfield Road, Box 304, Lindsay, ON K9V 4S3	1-705-878-9240
Horizon	Horizon Seeds Canada Inc.	531 Bostwick Rd., Courtland, ON NOJ 1E0	1-519-842-5538
Maizex	Maizex Seeds Inc.	4488 Mint Line, R.R.#2, Tilbury, ON NOP 2L0	1-877-682-1720
NK Brand	Syngenta Seeds Inc.	15910 Medway Rd., R.R.#1, Arva, ON NOM 1C0	1-800-756-SEED
Pioneer	Pioneer Hi-Bred Canada Company	Box 730, 7398 Queens Line, Chatham, ON N7M 5L1	1-800-265-9435
PRIDE Seeds	AgReliant Genetics Inc.	P. O. Box 1088, 6836 Pain Court Line, Chatham, ON N7M 5L6	1-519-354-3210
Saatbau	Saatbau Linz	201 rue st louis . 412, St Jean/Richelieu, QC J3B 1X9	514-609-0881

2022 Trial Locations and General Information - Ontario Hybrid Corn Performance Trials

			5 Year Heat	2022			Final			
	See Table	Heat Unit	Unit	CHU			plants per	Date	Date	
Location	Number	Rating	Average ¹	Total ²	Soil Type	Co-operator	acre ³	planted 4	Harvested	
Orangeville	1	2700	N/A	2967	Sandy Loam	Timstar Farms Ltd	34000	May 06	Oct 24	
Dundalk	1	2600	N/A	2962	Silt loam	Blydorp Farms Ltd	34000	May 11	Oct 25	
Elora	2	2800	N/A	2890	Silt loam	University of Guelph	34000	May 12	Oct 13	
Port Hope T2	2	2800	N/A	3155	Clay Loam	Bruce Hendry	35000	May 11	Nov 14	
Winchester T2	2	3000	N/A	3133	Clay Loam	Ontario Crops Research - Winchester	37000	May 12	Oct 26	
Wingham	2	2800	N/A	3077	Harriston Silt Loam	Rob Warwick	34000	May 14	Oct 27	
Bainsville	3E	3000	N/A	3197	Clay Loam	Rob McDonald	35000	May 12	Nov 13	
Williamsburg	3E	3000	N/A	3145	Loam	Devries	35000	May 11	Nov 13	
Winchester	3E	3000	N/A	3133	Clay Loam	Ontario Crops Research - Winchester	37000	May 09	Nov 03	
Blyth	3W	3000	N/A	3072	Listowel Silt Loam	Peter Heinrichs	34000	May 14	Oct 28	
Port Hope	3W	3000	N/A	3155	Clay Loam	Bruce Hendry	34000	May 11	Nov 14	
Waterloo	3W	2900	N/A	3100	Sandy Loam	Rosendale Farms Ltd	34000	May 09	Oct 14	
Exeter	4	3050	N/A	3078	Silt Loam	Cliff Hicks	34000	May 20	Nov 02	
Ilderton	4	3100	N/A	3173	Huron Silt Loam	Ralph Kuebler	34000	May 13	Nov 09	
Woodstock	4	3150	N/A	3394	Silt Loam	Wes Hart	35000	May 20	Nov 05	
Belmont	4	3250	N/A	3361	Clay Silt	Claire Hooker	34000	May 13	Nov 03	
Ridgetown	5	3450	N/A	3426	Loam	University of Guelph	34000	May 10	Oct 24	
Tilbury	5	3650	N/A	3264	Clay	Gus Ternoey	34000	May 12	Nov 07	
Dresden	5	3600	N/A	3400	Sand Loam	Brent McFadden	34000	May 11	Nov 04	

Notes:

- 1 Average total heat unit accumulation 2017 2021, inclusive.
- 2 Total heat unit accumulation at location from day of planting to either occurrence of killing frost (-2 C) or 30-year average end-of-season date.
- 3 These populations may not be suitable for your farm.
- 4 All trials planted in 30 inch row widths.

2022 Ontario Hybrid Corn Performance Trial Management Information

Previous Crop Potatoes Wheat Red	Fall	Spring	SOII P	rest Kat	ıngs		Tillage Soil Test Ratings Fertilizer Applicat					Herbicide or Pesticide Applications					Rainfall (mm)					
Potatoes	Fall			.,								•					· -		7			
			LR	MR	pH 6.6	N 165	P2O5 42	K2O 92	S	Primextra	4.0 l/ha	Date	Method post	May 81	Jun 59	Jul 74	Aug 111	Sep 29	Total 354			
Wheat Red		Cultivator X2	LK	IVIK	0.0	103	42	92	U	Callisto	0.3 l/ha	,	post	91	39	74	111	29	334			
		Cultivator X2	HR	MR	7	170	56	96	10	Primextra	4.0 l/ha		post	50	62	67	99	59	337			
Clover Cover		Cultivator A2	****	14111	,	1,0	30	30	10	Callisto	0.3 l/ha	'	post	30	02	0,	33	33	337			
Wheat Oats		Disc And Cultivator	LR	MR	7.1	175	100	100	10	Acuron	4.9 l/ha	Apr 26	ppi	78	46	30	70	33	257			
Cover										Roundup	1.5 l/ha	Apr 26	ppi									
Soybeans		Conventional	MR	MR	6.8	200	75	100	0	Frontier Max	0.35 L/ac	May 12		58	68	88	100	35	349			
										Marksmen	1.8 L/ac	May 12										
Soybean	Chisel Plough	Cultivator	LR	MR	5.8	183	51	19	17	Acuron	1.96 L/ac	May 26	post	118	104	91	128	96	537			
Wheat		Vertical Till	MR	LR	7	190	14	3	21	Acuron	1.96 L/ac	May 27	post	100	80	45	140		N/A			
Soybeans		Conventional	MR	MR	5.3	200	75	100	0	Frontier Max	0.35L/ac	May 13		97	137	55	82	118	489			
										Marksmen	1.8L/ac	May 13										
Soybeans		Conventional	LR	MR	5.5	200	75	100	0	Frontier Max	0.35 L/ac	May 12	pre	105	73	127	104	81	490			
										Marksmen	1.8 L/ac	May 12	pre									
Spring Cereals	Chisel Plough	Cultivator	RR	RR	5.8	183	51	19	17	Acuron	1.96 L/ac	May 23	post	118	104	91	128	96	537			
Wheat	None	Strip Till	MR	RR	7.2	185	50	18	25	Acuron	1.96 L/ac	May 27	post	75	70	48	130		N/A			
Soybeans		Conventional	MR	MR	6.8	200	75	100	0	Frontier Max	0.35 L/ac	May 12		58	68	88	100	35	349			
										Marksmen	1.8 L/ac	May 12										
Wheat	Vertical Till	Cultivator X2	RR	RR	6.9	200	90	100	10	Primextra	3.0 l/ha	Apr 29	ppi	95	42	11	42	29	219			
Oats/Radish Cover										Callisto	0.3 l/ha	Jun 02	post									
Summer	Tile	High Speed Disk	MR	RR	6.8				0	Frontier		May 18	ppi	80	60	40	120		N/A			
Fallow										Marksman	1.5 L/ac	May 31	post						•			
Wheat	Chisel	Cultivate	MR	LR	7.2				0	Acuron	1.96 L/ac	May 27	post	90	50	55	165	60	420			
										Fungicide			post									
Soybeans		Conventional	MR	HR	7	220	75	100	0	Corvus	133 ml/ac	May 21	pre	63	47	42	76	69	297			
										AAtrex 480	1 L/ac	May 21	pre									
Soybeans	Chisel Plow	Cultivator	MR	RR	5.9	210	13	3	1	Primextra	1.25	May 09	pre	56	59	95	96	39	345			
										Engenia	0.25	May 09	pre									
Wheat	Chisel Plow	Cultivator	MR	LR	6.5	206	13	3	1	Acuron	2 L/ac	May 23	post	62	49	42	68	31	252			
Soybeans	Chisel Plow	Cultivator	MR	LR	5.6	206	13	3	1	Acuron	2 L/ac	May 23	post	73	47	61	66	38	285			
Wheat	Chisel Plow	Cultivator	HR	RR	7	250	13	3	1	Acuron	2 L/ac	May 26	post	70	75	41	85	44	315			
	Wheat Oats Cover Soybeans Soybeans Soybeans Soybeans Spring Cereals Wheat Soybeans Wheat Oats/Radish Cover Summer Fallow Wheat Soybeans Soybeans Wheat Soybeans Soybeans Soybeans	Wheat Oats Cover Soybeans Soybean Wheat Soybeans Soybeans Soybeans Spring Cereals Wheat None Soybeans Wheat Oats/Radish Cover Summer Fallow Wheat Chisel Soybeans Soybeans Chisel Plow Wheat Chisel Plow Chisel Plow Chisel Plow Chisel Plow Chisel Plow Chisel Plow Chisel Plow Cover Chisel Plow	Wheat Oats Cover Soybeans Conventional Soybean Chisel Plough Vertical Till Soybeans Conventional Soybeans Conventional Soybeans Conventional Spring Chisel Plough Cultivator Cereals Wheat None Strip Till Soybeans Conventional Wheat Vertical Till Cultivator X2 Oats/Radish Cover Summer Tile High Speed Disk Fallow Wheat Chisel Cultivate Soybeans Conventional Cultivator X2 Cultivator Cultivator Cultivate Conventional Cultivate Cultivate Conventional Cultivate Cultivate Conventional	Wheat Oats Cover Soybeans Conventional Soybean Chisel Plough Wheat Soybeans Conventional Conventional MR Soybeans Conventional MR Soybeans Conventional LR Spring Chisel Plough Cultivator Cereals Wheat None Strip Till Soybeans Conventional MR Wheat Vertical Till Cultivator RR Conventional MR Wheat Conventional MR Wheat Conventional MR Conventional MR Conventional MR Conventional MR Conventional MR Conventional MR Conver Summer Tile Fallow Wheat Chisel Cultivate MR Soybeans Conventional MR Conventional MR	Wheat Oats Cover Soybeans Conventional Soybean Chisel Plough Wheat Soybeans Conventional Conventional Conventional MR MR MR MR Soybeans Conventional MR MR MR Soybeans Conventional LR MR Spring Chisel Plough Cultivator RR RR Cereals Wheat None Strip Till MR RR Soybeans Conventional MR MR MR MR Wheat Vertical Till Cultivator RR RR RR Coreals Wheat None Strip Till MR RR Soybeans Conventional MR MR MR Wheat Conventional MR MR MR Wheat Conventional MR MR RR Conventional MR MR RR Conventional MR RR Cotsel Cover Summer Summer Tile Fallow 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Cultivator Wheat Vertical Till MR LR 7 190 Soybeans Conventional MR MR 5.3 200 Soybeans Conventional MR MR 5.3 200 Soybeans Conventional LR MR 5.5 200 Spring Chisel Plough Cultivator RR RR 5.8 183 Cereals Wheat None Strip Till MR RR 7.2 185 Soybeans Conventional MR MR 6.8 200 Wheat Vertical Till Cultivator X2 RR RR 6.9 200 Wheat Vertical Till Cultivator X2 RR RR 6.9 200 Oats/Radish Cover Summer Tile High Speed Disk MR RR 7.2 Summer Tile High Speed Disk MR RR 7.2 Soybeans Conventional MR HR 7 220 Soybeans Chisel Plow Cultivator MR RR 5.9 210 Wheat Chisel Plow Cultivator MR LR 6.5 206 Soybeans Chisel Plow Cultivator MR LR 6.5 206	Wheat Oats Cover Disc And Cultivator LR MR 7.1 175 100 Soybeans Conventional MR MR MR 6.8 200 75 Soybean Chisel Plough Cultivator LR MR 5.8 183 51 Wheat Vertical Till MR LR 7 190 14 Soybeans Conventional LR MR 5.3 200 75 Spring Chisel Plough Cultivator RR RR 5.8 183 51 Cereals Wheat None Strip Till MR RR 7.2 185 50 Soybeans Conventional MR MR 6.8 200 75 Wheat Vertical Till Cultivator X2 RR RR 6.9 200 90 Oats/Radish Cover Tile High Speed Disk MR RR 6.8 8 Soybeans Chisel Plow Cultivator	Wheat Oats Cover Disc And Cultivator LR MR 7.1 175 100 100 Soybeans Conventional MR MR 6.8 200 75 100 Soybeans Chisel Plough Wheat Cultivator LR MR 5.8 183 51 19 Wheat Vertical Till MR LR 7 190 14 3 Soybeans Conventional LR MR 5.3 200 75 100 Spring Chisel Plough Cultivator Conventional LR MR 5.5 200 75 100 Spring Creals Chisel Plough Cultivator RR RR 8.8 183 51 19 Cereals Wheat None Strip Till MR RR 7.2 185 50 18 Soybeans Conventional MR RR RR 6.9 200 90 100 Oats/Radish Cover Conventional MR	Wheat Oats Cover Soybeans Disc And Cultivator Cover Soybeans LR MR 7.1 175 100 100 10 Soybean Soybean Chisel Plough Wheat Soybeans Conventional MR MR MR 5.8 183 51 19 17 Wheat Soybeans Conventional Till MR LR 7 190 14 3 21 Soybeans Conventional LR MR 5.3 200 75 100 0 Spring Chisel Plough Cereals Conventional LR MR 5.5 200 75 100 0 Wheat None Strip Till Meat MR RR RR 7.2 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