

2025

Ontario Hybrid Corn Performance Trials

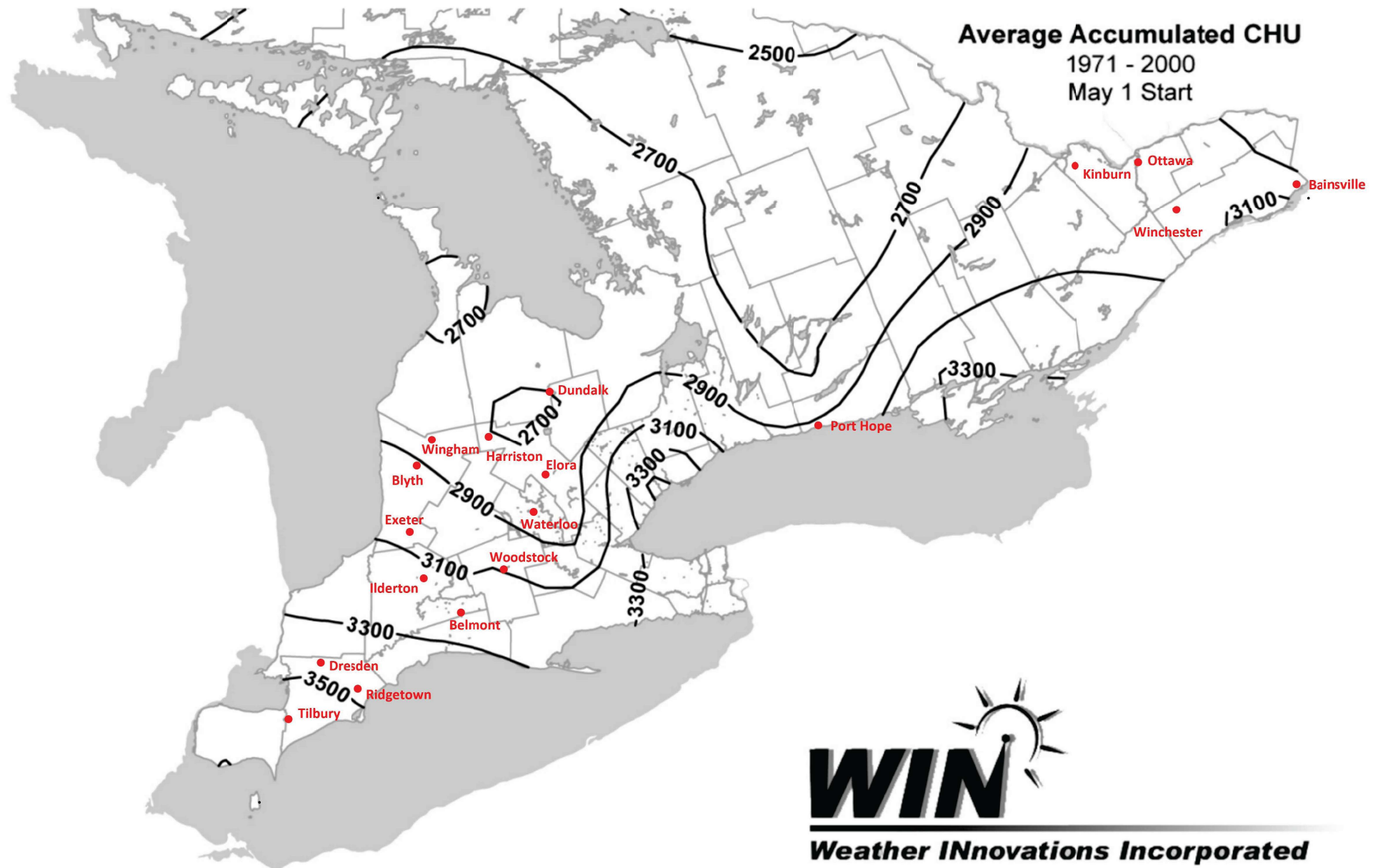
Data collected 2024-2025

Conducted by the Ontario Corn Committee • www.Corn.GoCrops.ca

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

Average Accumulated CHU
1971 - 2000
May 1 Start



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 OMAFA 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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2025 Ontario Hybrid Corn Performance Trial Management Information

Location	Table	Previous Crop	Tillage		Soil Test Ratings			Fertilizer Applications				Pesticide Applications					Rainfall (mm)					
			Fall	Spring	P	K	pH	N	P2O5	K2O	S	Type	Product	Rate	Date	Method/ Crop Stage	May	Jun	Jul	Aug	Sep	Yr
Dundalk	1	Wheat	None	Cultivator 2x	MR	MR	8	175	60	60		Herbicide	Acuron	2 L/ac	May 17	PRE	85	143	106	78	46	458
Harriston	1	Wheat	Chisel Plow	Cultivator 2x				175	60	80		Herbicide	Acuron	2 L/ac	May 22	POST	78	96	52	99	42	367
Kinburn	2	Soybeans	None	Lemken	NR	MR	6	235	101	83	12	Herbicide	Acuron	1.96L/ac	Jun 01	POST	73	69	74	52	48	316
Wingham	2	Wheat		Vertical Till				181	11	3	21	Herbicide	Integrity	0.45 L/ac	Apr 28	PPI	82	103	55	76	86	402
												Herbicide	Aatrex	1 L/ac	Apr 28	PPI						
Port Hope T2	2	Soybeans	None	Cultivator 2x	MR	MR	7	180	60	80		Herbicide	Acuron	2 L/ac	Jun 14	POST	176	12	43	66	84	381
Elora	2	Wheat	Disc	Cultivator	MR	LR	8	180	130	130	10	Herbicide	Acuron	4.9 L/ha	Jun 03	POST	97	88	83	67	96	431
												Herbicide	Acuron	4.9 L/ha	Jun 25	POST						
Winchester	3E	Soybeans	Chisel Plow	Cultivator	LR	LR	6	184	34	34		Herbicide	Acuron	1.96L/ac	May 16	POST	63	41	35	22	33	194
Ottawa	3E	Soybean	Chisel Plow	Cultivator			8	200				Herbicide	Acuron	2 L/ac	Jun 12	POST	74	74	64	51	28	291
Bainsville	3E	Soybeans	Chisel Plow	Cultivator 2x	LR	MR	6	190	60	80		Herbicide	Acuron	2 L/ac	Jun 15	POST	70	41	116	59	37	323
Blyth	3W	Wheat	Strip Till	Strip Till Refresh	NR	RR	7	160	11	3	25	Herbicide	Integrity	0.44 L/ac	Apr 28		88	94	32	108	86	408
Port Hope	3W	Soybeans	None	Cultivator 2x	MR	MR	7	180	60	80		Herbicide	Acuron	2 L/ac	Jun 14	POST	176	12	43	66	84	381
Waterloo	3W	Wheat	Chisel Plough	Cultivator	MR	RR	7	181	90	90	14	Herbicide	Acuron	2.0 L/ha	May 10	PPI	94	65	58	45	88	350
												Herbicide	Acuron	4.9 L/ha	Jun 03	POST						
Ilderton	4	Soy			MR	MR	7		11	3		Herbicide	Acuron	1.96 L/ac			86	70	43	57	40	296
Belmont	4	Wheat	High Speed Disk	Cultivate	MR	LR	6	200	11	3	0	Herbicide	Acuron	1.98 L/Acre	Jun 11	POST	84	36	112	49		N/A
												Fungicide	Veltyrna DLX	200 ml/ac	Jul 30	R1						
Woodstock	4	Wheat	None	Strip Till	LR	MR	7	180	60	80		Herbicide	Corvus	204mL per AC	May 13	PRE	87	129	58	35	88	397
												Fungicide	Veltyrna		Jul 29	VT						
Exeter	4	Wheat		High Speed Disk	MR	RR	7	180	11	3	10	Herbicide	Frontier	350 ml/ac	Aug 7	VT	83	75	41	87	31	317
												Fungicide	Veltyrna									
Ridgetown	5	Wheat	Chisel Plow	Cultivate	RR	MR	6	180	12	3	1	Herbicide	Acuron	1.98 L/Acre	May 26	POST	85	71	102	59		N/A
Dresden	5	Soybeans	Chisel Plow	Cultivate	HR	LR	7	180	12	3	1	Fungicide	Veltyrna DLX	200 ml/ac	Jul 29	R1						
												Fungicide	Veltyrna DLX	200 ml/ac	45867	R1	87	92	81	80		N/A
Tilbury	5	Soybeans	Chisel Plow	Cultivate	MR	LR	6	180	12	3	1	Herbicide	Laudis	89 ml/ac	Jun 27	POST	86	75	112	63		N/A
												Fungicide	Delaro	235 ml/Acre	Jul 29	R1						

Notes:
Herbicide Application Timings (from Pub 75):PP - Preplant, PPI - Preplant Incorporated, PRE - Preemergence, POST - Postemergence. ☐
Fungicide Application Timings: LV - Late Vegetative, VT - Tassel, R1 - Silking, R2 - Blister, R3 - Milk.☐

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/hl (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
38	SmartStax PRO
39	VT4PRO
40	Vorceed Enlist

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 2024. 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 at:

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

Explanation of Seed Treatment Codes

	Seed Treatments
-	No Treatment
A	Acceleron 250
C	Cruiser Maxx 250
F	Fortenza
L	Lumivia
P	Poncho 250
AD	Acceleron Standard Diamide

Seed Corn Dealers

Brand or Identification	Company	Address of Canadian Sponsor	Telephone
CROPLAN	WinField United Canada	302 Wellman Lane #101, Saskatoon, SK S7T 0J1	613-872-3550
De Dell	De Dell Seeds Inc	7095 Century Drive, Melbourne, ON N0L 1T0	833-436-2676
DEKALB	DEKALB	2-679 Southgate Drive, Guelph, ON N1G 4S2	519-767-3366
DLF	DLF Canada Inc.	3043 County Road 2, Port Hope, ON L1A 3V5	705-878-9240
Horizon	Horizon Seeds Canada Inc.	729 Mid N. Walsingham Townline Rd, Courtland, ON N0J 1E0	519-842- 5538
LID	Lidea Seeds		
Maizex	Maizex Seeds Inc.	4488 Mint Line, Tilbury, ON N0P 2L0	877-682-1720
NK Brand	Syngenta Canada, Inc. (NK)	140 Research Lane, Research Park, Guelph, ON N1G 4Z3	877-964-3682
Pioneer	Corteva Agriscience (Pioneer)	Suite 240, 115 Quarry Park Road SE, Calgary, AB T2C 5G9	800-265-9435
PRIDE Seeds	PRIDE Seeds	PO Box 1088, 6836 Pain Court Line, Pain Court, ON, Chatham, ON N7	800-265-5280
Saatbau	Saatbau Canada inc	201, rue St Louis, 412, St Jean sur Richelieu, QC J3B 1X9	514-609-0881
Thunder Seed	Thunder Seed	P.O. Box 734, Carman, MB R0G 0J0	204-872-0380

2025 Trial Locations and General Information - Ontario Hybrid Corn Performance Trials

Location:	See Table Number	Heat Unit Rating	5 Year Heat Unit Average ¹	2025 CHU Total ²	Soil Type	Co-operator	Final plants per acre ³	Date planted ⁴	Date Harvested
Dundalk	1	2600	N/A	2518	Clay Loam	Blydorp Farms	36000	May 15	Nov 06
Harriston	1	2700	N/A	2518	Loam	Max VonWesterholt	36000	May 09	Nov 03
Kinburn	2	3000	N/A	2698	Sandy Loam	Kinburn - Panmure Farms	34000	May 15	Nov 04
Wingham	2	2800	N/A	2943	Silt Loam	Rob Warwick	34000	May 15	Nov 04
Port Hope T2	2	2800	N/A	2757	Sand Loam	Bruce Hendry	Discarded – variability from drought		
Elora	2	2800	N/A	2853	Silt Loam	University of Guelph	34000	May 09	Oct 26
Winchester	3E	3000	N/A	3157	silty clay loam	Ontario CRC - Winchester	34000	May 05	Oct 16
Ottawa	3E	3000	N/A	3076	Clay loam	Aida Kebede	37500	May 14	Nov 06
Bainsville	3E	3000	N/A	2495	Clay Loam	Rob McDonald	36000	May 30	Nov 18
Blyth	3W	3000	N/A	2921	Silt Loam	Peter Heinrich	34000	May 20	Nov 06
Port Hope	3W	3000	N/A	2757	Sand Loam	Bruce Hendry	Discarded – variability from drought		
Waterloo	3W	2900	N/A	2868	Silt Loam	Snyder Acres Farms	34000	May 12	Oct 28
Ilderton	4	3100	N/A	3050	Silt Loam	Ralph Kuebler	Discarded – variability from drought		
Belmont	4	3250	N/A	3109	Silt Loam	Taylor Farms	34000	May 27	Nov 20
Woodstock	4	3150	N/A	2826	Loam	Wes Hart	36000	May 09	Nov 04
Exeter	4	3050	N/A	2994	Silt Loam	Cliff Hicks	34000	Jun 03	Nov 19
Ridgetown	5	3450	N/A	3392	Loam	University of Guelph-Ridgetown	34000	May 10	Nov 06
Dresden	5	3600	N/A	3352	Sandy Loam	Brent McFadden	34000	May 12	Nov 22
Tilbury	5	3650	N/A	3519	Silt Loam	Gus Ternoey	33000	May 13	Nov 24

Notes:

1 Average total heat unit accumulation 2020 - 2024, 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.