

Driving Decisions Newsletter

Issue 19

September 2023

app.Cropintel.ca

* RealmFive in conjunction with Crop Intelligence is notifying all customers of a mandatory firmware update. This update will start on **Friday, September 29th** and will take place over the next two weeks. This update requires no action from customers as it is done remotely over the air. During this update stations will be fully functional and operating, there will be no disturbance in data collection.*

Reminder to Enter Crop Intelligence Harvest Data

Harvest data (termination method and date, harvest date, probe area yield, field yield) can be entered on our website or on the app. Harvest data is private to you, Crop Intelligence, and your Crop Intelligence vendor and is only used to **validate site selection, optimize settings for your field, and provide feedback** into our system.

For both the app and website:

1. Click on the zone and go to the 'Yield Potential' graph.
2. At the bottom, click 'Enter Harvest Data'.
3. Enter the season end method and date, harvest date, probe yield, and field yield. Click 'Save Harvest Data' to store it in the system. You can go back as needed to add information or adjust data.

Adjusted WDYP

Enter Harvest Data

Rainfall Scenarios

View Notes

View Notes

Enter First Flower Date

Toggle Graph Data

1. GENERAL INFORMATION

Select method of season end date

Season End Date (Swath, Desiccate, Combine)

Harvest Date (Combine)

2. HARVEST YIELD

Yield at Probe Location (bushels per acre)

Yield

Field Average Yield (bushels per acre)

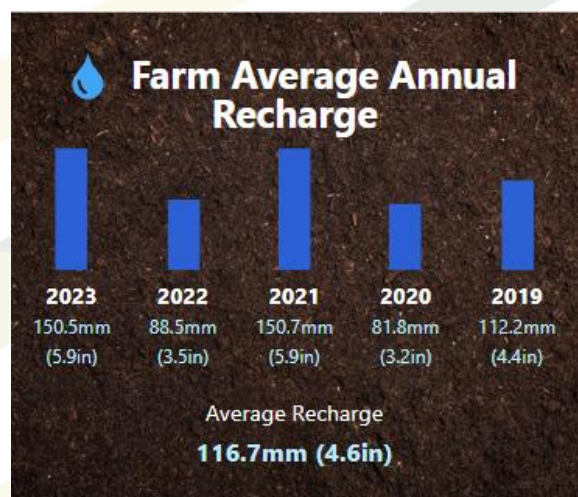
Yield

NEW! Autogenerated Year End Reports

Throughout the season, in-season reports have been autogenerated on a weekly basis for all Crop Intelligence customers. On October 2nd, Year End reports will also be autogenerated for all Crop Intelligence sites. Assumptions will be made for environmental statistics (temperature thresholds and months analyzed) and 2024 Crop Potential (wheat and canola, medium field productivity, and 100% winter precipitation). If you would like to evaluate the data using other parameters, you can build your own year-end report on the website under 'Reports'. While In-Season and Year-End reports can't be created on the app, you can go to the main menu, then reports to view them.

A year-end report example can be found on the next page. Similar to the in-season reports, a data summary appears across the top showing a summary of details from the field (seeding date and yield goal) and settings driving data for the zone (soil texture, starting crop available water, total rain, and % average rain). In the year-end report, harvest data entered by the customer or consultant is also included. If harvest data has not been entered, it will show as 'Not Entered' or 'N/E'.

The body of the report focuses on environmental and soil moisture data, next year's potential, and soil moisture recharge. These summaries are meant to provide details on conditions that drove yield this year, insights on the crop performance below ground, and help drive decisions for next year. Further details for these summaries can be found using our 'Data Compare' feature in environmental data, the soil moisture graph, or 'Next Year's Potential', respectively.



As shared in our last newsletter, more details of a farm's overwinter recharge can be found in the Year End Reports. Here it shows the average recharge across the farm each year from fall to spring. On this farm, there was greater recharge in 2021 and 2023 than 2020 and 2022. Years with greater recharge tend to be correlated with drier fall soil profiles. Recharge can be improved by simply leaving stubble 1" higher. Lower recharge is often due to wetter fall profiles at freeze up but can also occur from wetter conditions at 10cm that prevent infiltration during spring melts.

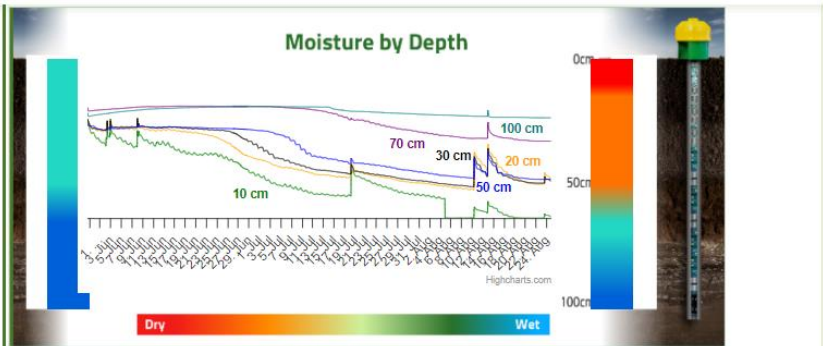
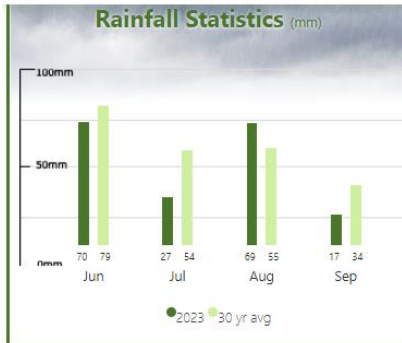
Sample report from a canola trial site this year

23 Canola RR Trial

Be-Ver Farms
RR Trial Year-End Report

2023 Data Summary

Seeding Date	Yield Goal	Soil Texture	Start CAW*	Total Rain	Avg Rain	Harvest Date	End WDYP	Yield Probe/Avg	Harvest CAW*
2023-05-24	55 bu/ac	Clay Loam	220mm (8.7in)	186mm (7.3in)	71.41%	Not Entered	2.05	N/E/N/E	60mm (2.4in)

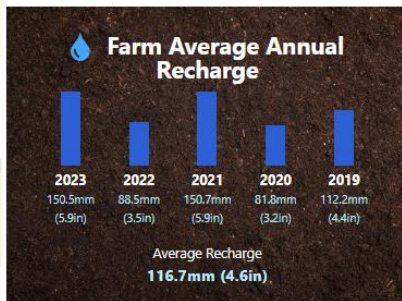


Mos	Min	Max	Days >28c	Days <-2c	GDD	30YR GDD
Jun	8.8	34.2	10	0	449	314
Jul	3.3	33.4	8	0	370.1	394.7
Aug	5.8	34.9	14	0	261.7	371.8
Sep	0.5	34.1	4	2	0	180.8
Total	0.5	34.9	36	2	1080.8	1261.3

2024 Crop Potential

Field Productivity	Winter Precipitation	Fall CAW*	30yr Avg Winter Precipitation	30yr Avg Precipitation
Medium	100%	60.3mm (2.4")	116.7mm (4.6")	218.4mm (8.6")

2024 Potential	HRS Wheat (bu/ac)	2024 Potential	Peas (bu/ac)
50% In-Season	51-59	50% In-Season	39-47
75% In-Season	64-74	75% In-Season	47-57
100% In-Season	72-82	100% In-Season	56-68
125% In-Season	75-87	125% In-Season	56-68



CAW*

CAW = crop available water calculated from the soil moisture sensor readings and parameters determined by the soil texture at the probe location.

Fall CAW = crop available water calculated on October 15, or the last data available prior to October 15

Start CAW = crop available water calculated five days after soil moisture probe installation

Harvest CAW = crop available water calculated at earliest harvest or season-end date.

Upcoming Events

- 2023 SIPA Irrigation Conference – December 4-6th in Saskatoon
- Annual Crop Intelligence Summit – December 13-14th in Regina
- Early-Bird Ticket Sales available until November 1st

Have questions? Reach out to your Crop Intelligence partner for more information or email us at info@cropintel.ca.