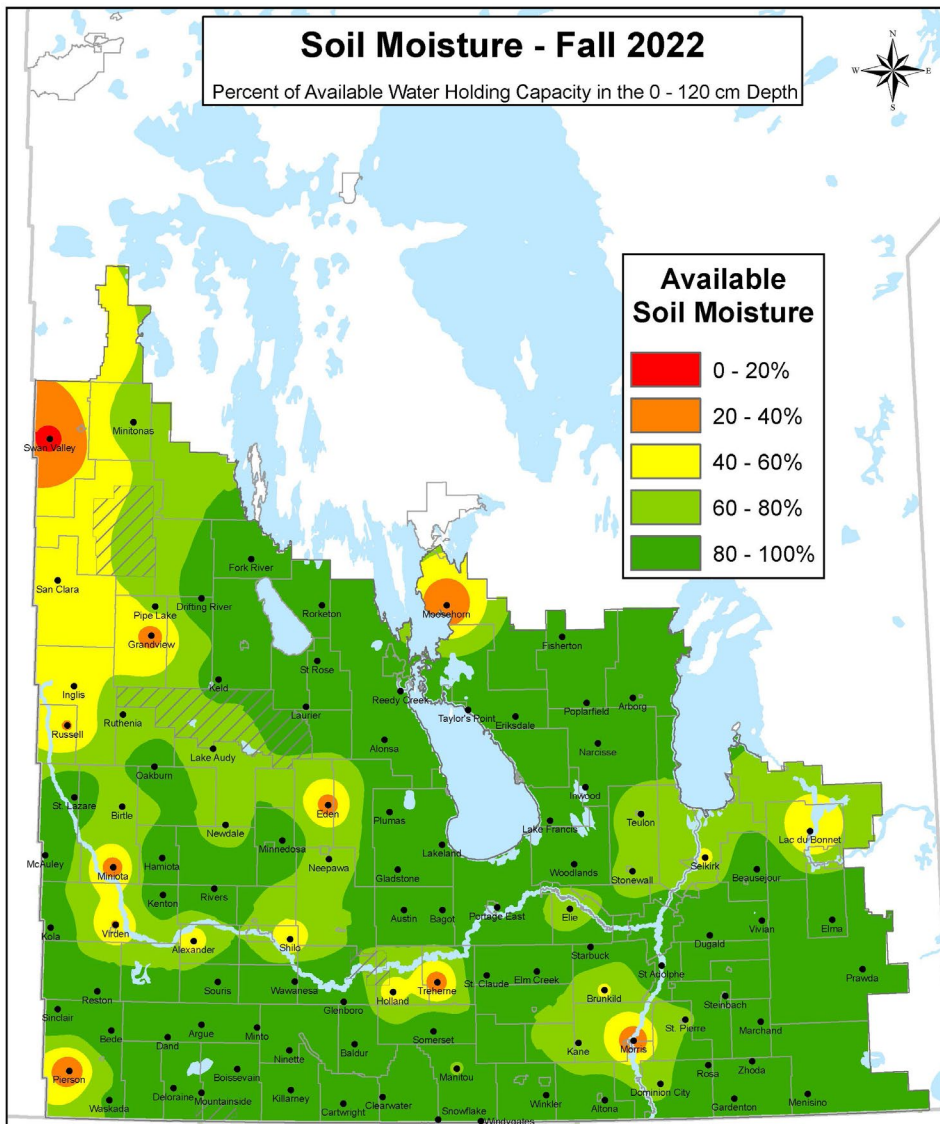




**MANITOBA
CROP
ALLIANCE**

HERBICIDE RECROPPING RESTRICTIONS

The 2022 growing season had varied precipitation accumulation across the province, not only due to heavy spring flooding but throughout the season. In late October, the Available Water Holding Capacity was measured from 0 - 120 cm depth in over 100 locations across Manitoba to develop the map below. While most of the province was experiencing at or slightly below water holding capacity, there are areas that were significantly drier. With ample moisture over the 2022 growing season, there should be little concern about herbicide carryover. However, there can still be issue, regardless of soil moisture, so become familiar with recropping restrictions in each commodity.



Re-cropping restrictions are implemented to prevent crop damage following applications of residual herbicides. This table is a guide for sunflower producers to identify any fields that should not be planted to the crop in a specific time frame, following the application of the correlating herbicide. If tank mixes were applied, the most restrictive guidelines should be followed.

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Figure: Manitoba Fall Soil Moisture Survey via Manitoba Agriculture: Percent of Available Water Holding Capacity in the 0 - 120 cm Depth. <https://www.gov.mb.ca/agriculture/environment/soil-management/manitoba-fall-soil-moisture-survey.html>

This map represents soil moisture values measured by sensors buried at 5, 20, 50 and 100 cm at 100 sites across Manitoba. Soil properties e.g. bulk density, field capacity & wilting point were estimated for each soil based on their physical characteristics. The amount of available water held by the soil will vary based on soil properties such as texture, organic matter and bulk density. The map is a regional guide that should be supplemented by site-specific considerations for specific local areas, fields and soils.





NOTE: Herbicide residue breakdown occurs through several processes in and on the soil. Chemical reactions, soil microbes and leaching are just a few methods of breakdown and are strongly favoured by warm, moist soil conditions (not achieved during spring thaw). If the applied field did not receive adequate precipitation during the growing season, the herbicide residual will remain, requiring recropping restrictions to be lengthened. Contact the associated company for more information and recommendations.

Product	Company	Recropping Restrictions for Sunflowers
Altitude FX3	BASF Canada	NR+
Aatrex, Primextra II Magnum	Syngenta Canada	1 year**
Ares SN	Corteva Agriscience	2 years
Clomazone		2 years
Clopyralid/MCPA (+/- fluroxypyr)		2 years
Dicamba		NO DATA
Dicamba/Fluroxypyr		2 years
Fierce	Valent Canada/Nufarm Agriculture	NR+
Fluroxypyr		1 year*
Heat Complete	BASF Canada	1 year
Imazamox/Imazethapyr		2 years*
Korrex II	Corteva Agriscience	1 year
Laudis	Bayer	NR+
Metribuzin		2 years
Nicosulfuron		10 months
Olympus	Bayer	NR+
Permit WG	Gowan Canada	2 years
Predicade	FMC Corporation	2 years
Rexade	Corteva Agriscience	10 months
Signal FSU	Nufarm Agriculture	2 years
Smoulder	BASF Canada	NO DATA
Thifen:Triben (2:1) + fluroxypyr		2 years
Thifen:Triben (25:25) + fluroxypyr		1 year
Topramezone		1 year*
TraxosTwo	Syngenta Canada	2 years
Valtera (crop uses)	Valent Canada/Nufarm Agriculture	2 months***

10 months: Can be planted 10 months after application.

1 year: Can be safely grown the growing season following application.

2 years: Can safely be grown 2 growing seasons following application.

NR+: No recropping restrictions indicated for sunflowers; farmer should conduct a field bio-assay to ensure crop safety and contact the company for more information.

*: May not be supported for all products; refer to product label for details.

**: May be longer depending on use rates, region, soil type, environment, time of application and crop variety.

***: May be less depending on use rates.

DISCLAIMER: The recropping intervals listed may not be sufficient to prevent crop injury during periods of below average precipitation. The information provided is only a guide, Manitoba Crop Alliance is not liable for any decisions made based on this information. Always refer to the product label for application details and precautions.

REFERENCES: Guide to Field Crop Protection, Manitoba Agriculture and Resource Development. 2023

