

T-DISC Revisions Log

T-DISC ver1.1.1, released 9/4/2026

Changes between T-DISC ver1.1 and Ver. 1.1.1

- Adjusted operating depth of “Ripper/subsoiler” implement from 31 cm to 30 cm to reflect max operating depth in the tool and the T-DISC methodology.
- Clarified threshold Tillage Index values between tillage designations
- Adjusted operating depth of “Roller, Culti-Mulcher” implement to 10 cm to align with research on average operating depth of culti-mulchers.
- Removed “Roller, Groover” implement from main implement list.

T-DISC ver1.1, released 8/18/2026

Changes between T-DISC Ver1.0 and Ver1.1

- Corrected a typo in the underlying data for the “Harrow, Disk, Inter-Row Strip Disk” so the implement no longer receives a tillage intensity value of zero.
- Restored the implement “Roller, Culti-Mulcher” to the following tillage window implement lists: Planting, Before Planting, Field Preparation
- Created a Sprayer/Aerial/Broadcast Application implement (with ME=0 and Depth=0) and added to all tillage windows.
- Changed the mapping for the “Disk, Inter Row Strips” implement from “Discovator” to “Harrow, Disk, Single” and “Harrow, Spike Tooth or Spring Tooth”
- Corrected typos in the mapping file that mapped implements to “Finisher, Landall, Do-All” rather than “Finisher, Landoll, Do-All”
- Corrected “Residue Mgmt, Power Mulcher” to “Residue Mgmt: Power Mulcher” in the tillage window implement lists.
- Restored the implement “Weed Mgmt: Scalper” to the list of Planting window tillage implements.
- Adjusted the operating depth for the implement “Nutrient Mgmt: Fert Appl, Strip Till” from 18 cm to 15 cm.
- Added a coulter caddy implement (smooth) to Planting, Before Planting, and Field Preparation tillage windows:

Implement	Mixing Efficiency	Depth
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CONDITIONER, COULTER CADDY, SMOOTH COULTERS	0.07	6
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- Created duplicate mappings for Seedbed Conditioners with smooth coulters that map to the “Conditioner, Coulter Caddy, Smooth Coulters” implement rather than “Cultivators, Rotary Hoe”.
- Changed implement mapping for Reel Disc Vertical Tiller to more closely align with RUSLE2 description for this implement: “Like McFarlane Reel Disk machine with single gang of smooth coulters on a shaft, on a slight angle followed by a rolling stalk chopper reel, a spike harrow and a rolling basket.” New mapping is to:
 - CONDITIONER, COULTER CADDY, SMOOTH COULTERS
 - HARROW, SPIKE TOOTH OR SPRING TOOTH
 - HARROW, ROLLING