

Smart control of subsurface water tables

The Agri Drain Smart Drainage System™ is used to control the level of the water table in the soil profile when installed in a subsurface drainage system. This reduces nutrient loss, increases yields, and improves water quality. An automatic water-level control structure is placed in the tile line and is used to raise or lower the water table based on the time of year and the needs of the producer and crops. The unit has two slide gates, one at the tile depth and one at approximately 0.6 m (2 ft) below ground level. The slide gates are opened and closed with two 12-volt linear actuators based on a schedule programmed into a controller. A solar panel keeps the battery charged to provide power for the system.

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