

**Originating Committee:** Public/Private Lands  
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**Intended Recipient:** Missouri Department of Conservation

### **Use of Precision Agriculture on Missouri Department of Conservation Land**

**WHEREAS**, in precision farming, data are collected with high spatial and/or temporal resolution, and data are analyzed and related to treatments or manipulations that are specific in location and/or timing, and prescribed treatments are implemented using systems capable of precise control, tracking, or handling of applications of fertilizers, pesticides, irrigation, and herbicides in agricultural crops and improved timber and non-timber management and utilization in forests; and

**WHEREAS**, precision agriculture has helped producers in many ways including increasing productivity levels of crops, locating flooding and soil erosion areas, and finding insect and fungal infestations within a field and by including buffers, managing the use of chemicals, and practicing other forms of precision agriculture we may advance environmental management; and

**WHEREAS**, precision agriculture is a farming method that can decrease soil erosion, improve water quality, and is more environmentally focused than other practices; and

**WHEREAS**, precision agriculture uses sensors, yield maps, and other technologies to help producers determine where they can improve on their farming to increase crop yield and decrease harmful effects on the environment; and

**WHEREAS**, precision agriculture's goal is to help maintain efficiency and sustainability of the crop and the surrounding environment; and

**WHEREAS**, precision agriculture is more effective and energy efficient in planning and highlighting problem areas before they become an issue; and

**WHEREAS**, the Missouri Department of Conservation (MDC) owns and manages public lands for wildlife purposes; and

**WHEREAS**, MDC leases public land to local producers for growing grasses and other crops; and

**WHEREAS**, the use of precision agriculture will help the MDC by reducing chemical use and by locating areas of high erosion where buffers are needed; and

**WHEREAS**, precision agriculture can reduce the chance of environmental threat from a producer's choices and decrease the time spent evaluating fields with the use of more technological field mapping; now, therefore, be it

**RESOLVED** that the Conservation Federation of Missouri assembled at the Capitol Plaza Hotel, Jefferson City, MO, this 8<sup>th</sup> day of March, 2020, encourages the Missouri Department of Conservation to expand the use of precision agriculture to improve the conservation of public lands.

Searchable Keywords: precision agriculture, Missouri Department of Conservation, efficient, environment, crop.

**Expires:** March 8, 2025