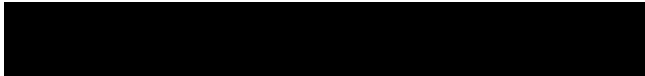






6	PreFence	.174g/.174gal/tray
7	Rootshield	.522g/.174gal/tray
8	Control, not inoculated	10g seed/10ml H <sub>2</sub> O
9	Control, inoculated	10g seed/10ml H <sub>2</sub> O

 directly to seed and was allowed to dry overnight before planting. Actinovate, PreFence, and Rootshield treatments

**Figure 1. Germination rates for hemp seed treatments.**

Table 2 shows seed vigor for each seed treatment. While Actinovate and the inoculated control took roughly two days less to reach 50% germination, the difference between these top performers and other treatments is not statistically significant. This study showed no statistical significance in overall seed vigor amongst seed treatments.

**Table 2. Seed vigor of each treatment expressed as average number of days to reach 50% germination.**

Seed Treatment	Average days to 50% germination
K5	12.00

## DISCUSSION

Farmers have experienced issues with early season stand establishment. Seed treatments help to improve germination and establishment of seedlings. Treating hemp seed with a biological treatment appeared to have minimal impact on the germination of hemp. Seed treatments also appeared to have no impact on seed vigor. As the hemp industry grows, it is important to continue to research and develop new seed treatments to improve stand establishment and seed vigor.