











Food, Agricultural and Biological Engineering

Active DownForce Technologies

- Soil physical properties vary spatially indicating planter performance could be improved by adjusting planter settings to field spatial variability.
- Seeding depth and downforce management are critical for optimization of planter performance (Hanna et al., 2010).
- Hydraulics provide quicker response and stability.

Target Depth (in.)	Downfo	rce TRTS	AVG Depth (in.)	CV Depth (%)
2	none	0 lbs.	1.84	14.5
2	optimal	100 lbs.	2.20	5.1
2	heavy	195 lbs.	2.28	7.8









