

OMNiPOWER

2020/2021 Season Comparison

Preliminary data as of August 2021

In the second year of operations, based on what Olds College learned about autonomous ag equipment in the first year, the team is able to run the equipment more efficiently, get more acreage coverage, and improve field efficiencies and uninterrupted hands-off operation.

	Missions completed	Spreaded acres *	Seeded acres	Sprayed acres	Longest hands off operation
2020	34	240	125	2,078	1 hour and 17 minutes
2021	45 (+)	328 (+)	497	2,353 (+)	5 hours and 16 minutes

Notes: The (+) sign indicates OMNiPOWER could be performing more of these tasks in the season. Spreaded acres refers to the broadcasting application method of granular fertilizer.

	Seeding		Spraying	
	Field Efficiency (%)	Fuel Efficiency (L/acre)	Field Efficiency (%)	Fuel Efficiency (L/acre)
2020	34.2	3.01	40.7	0.47
2021	66.5	3.52	72.8	0.35

Notes: The 2020 values shown are the average of seeding (2 missions) and spraying (3 missions). The 2021 values shown are the average of seeding (4 missions) and spraying (17 missions). All 2020 data was collected by observation, whereas the 2021 data presented above was collected digitally. Data was not gathered during spreading missions in 2020, however spreading activity fuel and field efficiency data will be digitally collected during Fall 2021. Data for 2021 is preliminary and final values may change once further analysis is conducted.