

2021 BSDL Sugar Beet Production Challenges Survey (U.S.)

Production Challenge	Total Average Value Lost Per Production Challenge		Total Challenged Acres	
	Without Management	With Management	Without Management	With Management
Storage	\$ 353,487,500	\$ 121,525,000	815,500	551,500
Weed Control	\$ 643,738,000	\$ 91,437,500	1,156,335	595,500
Cercospora	\$ 561,715,250	\$ 77,227,000	992,395	558,895
Rhizoctonia	\$ 344,328,375	\$ 57,630,000	882,395	432,000
Aphanomyces	\$ 269,612,500	\$ 41,027,500	697,500	345,500
Root Maggot	\$ 142,725,000	\$ 25,912,500	382,000	171,500
Rhizomania	\$ 439,546,125	\$ 16,225,000	965,395	130,000
Aphids (Root & Black Bean)	\$ 76,905,000	\$ 10,685,000	276,700	82,500
Fusarium	\$ 68,575,000	\$ 9,629,000	238,500	79,900
Nematode	\$ 133,107,500	\$ 4,670,000	246,500	34,000
Powdery Mildew	\$ 22,025,000	\$ 1,200,000	129,000	22,000
Lygus	\$ 9,000,000	\$ 375,000	60,000	15,000
Wireworm	\$ 15,700,000	\$ 100,000	47,000	2,500
Curly Top	\$ 276,225,000	\$ 62,500	269,750	2,850
Total	\$ 3,356,690,250	\$ 457,706,000	7,158,970	3,023,645

Market	2021 Acres
Wyoming Sugar	11,940
Western Sugar	112,500
Spreckels Sugar	24,000
SMBSC	120,000
Sidney Sugars	31,500
Minn-Dak	101,000
Michigan Sugar	161,000
American Crystal	411,395
Amalgamated	180,000
Total	1,153,335

Definitions

Challenged Acres <i>without management</i>	Production acres that will suffer an economic production loss due to a specific challenge if the challenge is not managed
Challenged Acres <i>with management today</i>	Production acres that suffer an economic production loss due to a specific challenge today with the management of the challenge employed
Economic production loss	A loss in sugar yield that exceeds 5% of gross grower payment for the acres by each cooperative
Management of challenge	An applied crop input, seed treatment, agronomic practice or genetic trait that reduces the impact of the economic production loss from a challenge
Market Acres	Average production acres as set by each cooperative
Future Risk of Challenge	Assessment of the management of the challenge based on what you know
Agronomic practice	crop rotation, soil amendments, cultivation

Assumptions to use

Economic production loss	30.0 average tons
\$	40.00 average payment
\$	1,200.00 gross grower payment
\$	60.00 5% of gross revenue

pecific challenge

ic challenge

re as determined

ait that reduces

ow today