

2022 BSDF Sugar Beet Production Challenges Survey (U.S.)

	Total Average Value Lost Per Production Challenge		Total Challenged Acres	
	Without Management	With Management	Without Management	With Management
Abiotic - Total	\$ 1,102,215,760	\$ 680,255,760	3,125,332	3,037,532
Drought Stress	\$ 309,948,940	\$ 185,201,440	791,883	744,683
Heat Stress	\$ 269,598,940	\$ 178,451,440	812,883	789,883
Excess Water	\$ 259,038,940	\$ 156,058,940	797,783	671,683
Frost	\$ 255,478,940	\$ 155,978,940	683,283	792,283
Salt	\$ 8,150,000	\$ 4,565,000	39,500	39,000
Disease	\$ 2,668,395,480	\$ 361,307,460	4,839,900	2,462,133
Rhizomania	\$ 628,091,790	\$ 125,080,000	1,107,434	865,000
Cercospora	\$ 690,574,320	\$ 78,990,960	1,039,283	591,883
Rhizoctonia	\$ 471,799,370	\$ 77,425,000	989,783	494,000
Aphanomyces	\$ 299,495,000	\$ 53,930,000	779,000	361,350
Fusarium	\$ 88,705,000	\$ 20,469,000	234,400	91,400
Nematode	\$ 189,555,000	\$ 4,025,000	286,000	30,500
Powdery Mildew	\$ 23,000,000	\$ 1,200,000	133,000	22,000
Curly Top	\$ 277,175,000	\$ 187,500	271,000	6,000
Insect	\$ 468,390,000	\$ 64,725,000	1,046,700	340,000
Root Maggot	\$ 217,635,000	\$ 38,815,000	492,000	214,500
APNIDS (ROOT & Black Bean)	\$ 220,555,000	\$ 25,360,000	369,700	105,500
Lygus	\$ 14,200,000	\$ 425,000	122,000	17,000
Wireworm	\$ 16,000,000	\$ 125,000	63,000	3,000
Other	\$ 1,251,848,840	\$ 317,859,000	2,071,283	1,448,400
Storage	\$ 488,275,000	\$ 183,699,000	895,000	694,000
Weed Control	\$ 763,573,840	\$ 134,160,000	1,176,283	754,400
Grand Total	\$ 5,490,850,080	\$ 1,424,147,220	11,083,215	7,288,065

Market	2022 Acres
Wyoming Sugar	11,151
Western Sugar	111,000
Spreckels Sugar	23,000
SMBSC	110,000
Sidney Sugars	18,400
Minn-Dak	104,000
Michigan Sugar	160,000
American Crystal	458,883
Amalgamated	180,000
Total	1,176,434

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 acre as determined 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 today
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