	Total Average Value Lost Per Production Challenge				Total Challenged Acres	
	Without			With	Without	With
		Management	Ν	/lanagement	Management	Management
Abiotic - Total	\$	1,859,569,517	\$	788,812,685	3,265,226	2,417,168
Drought Stress	\$	532,392,423	\$	138,886,704	852,642	306,042
Heat Stress	\$	513,120,523	\$	261,324,373	864,700	732,542
Frost	\$	419,684,148	\$	179,265,804	704,342	591,342
Excess water	\$	385,122,423	\$	203,835,804	797,542	742,242
Salt	\$	9,250,000	\$	5,500,000	46,000	45,000
Disease - Total	\$	3,800,813,698	\$	478,776,674	4,899,538	1,834,450
Cercospora	\$	931,422,750	\$	157,303,936	966,542	642,719
Rhizomania	\$	790,250,015	\$	28,350,000	1,010,219	111,500
Rhizoctonia	\$	673,623,933	\$	138,500,000	887,377	456,500
Aphanomyces	\$	455,425,000	\$	115,770,000	739,000	383,500
Curly Top	\$	365,280,000	\$	250,000	261,200	5,000
Nematode	\$	234,210,000	\$	3,300,000	304,200	16,000
Alternaria	\$	177,232,000	\$	4,581,280	361,000	112,000
Fusarium	\$	138,350,000	\$	29,521,458	214,000	85,231
Powdery Mildew	\$	35,020,000	\$	1,200,000	156,000	22,000
Insect - Total	\$	657,834,000	\$	141,377,500	1,024,800	400,750
Root Maggot	\$	354,544,000	\$	71,597,500	453,300	221,750
Aphids (Root & Black Bean)	\$	255,065,000	\$	69,505,000	362,000	170,500
Wireworm	\$	34,600,000	\$	125,000	77,000	2,500
Lygus	\$	13,625,000	\$	150,000	132,500	6,000
Other - Total	\$	1,840,464,620	\$	606,888,000	1,970,200	1,416,000
Weed Control	\$	1,120,354,620	\$	286,918,000	1,102,200	676,000
Storage	\$	720,110,000	\$	319,970,000	868,000	740,000
Grand Total	\$ 8,158,681,835 \$ 2,015,854,859		11,159,764	6,068,368		

2024 BSDF Sugar Beet Production Challenges Survey (U.S.)

Market	2024 Acres
Amalgamated Sugar	180,000
American Crystal	412,219
Michigan Sugar	145,000
Minn-Dak	94,823
SMBSC	120,000
Spreckels Sugar	25,000
Western Sugar	112,000
Wyoming Sugar	13,158
Total	1,102,200

Challenged Acres without management	Production acres that will suffer an economic production loss due to a if the challenge is not managed	
Challenged Acres with management today	Production acres that suffer an economic production loss due to a sp 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 a by each cooperative	
Management of challenge	An applied crop input, seed treatment, agronomic practice or genetic t 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 kr	
Agronomic practice	Crop rotation, soil amendments, cultivation	
Economic production loss	Caluclated based on each cooperative's average tons/acre and average	