Sugarbeet SEED TREATMENT

Chemical	Application	Dosage ¹	Aphanomyces	Pythium	Phoma	Rhizoctonia	Remarks
Chloroneb Chloroneb 65W, 65%	Liquid or slurry	6 fl oz/cwt		Х		Х	For control of Pythium and Rhizoctonia. For use as a supplement to another fungicide.
Fludioxonil Maxim 4 FS, 40.3%	Slurry	0.08-0.16 fl oz/cwt			Х	Х	For control of seed- borne and soil- borne fungi.
Hymexazol Tachigaren, 70%	Pelleted seed	45-90 g/unit of 100,000 seed (approx. 1 kg)	X	X			For control of Pythium and Aphanomyces. Use of rates greater than 45 g may result in phytotoxicity. In fields with known heavy disease pressure, use of Tachigaren and a tolerant variety is suggested.
Mefenoxam Apron XL LS, 32.3%	Slurry or mist	0.32-0.64 fl oz/cwt		X			For control of Pythium. May be combined with other fungicides if products are known to be compatible. For use only with commercial seed treatment equipment.
Metalaxyl Allegiance FL, 28.35% Dyna-Shield 28.35%	Mist or slurry	0.75 fl oz/cwt 0.75 fl		X X			For control of Pythium. May be combined with other fungicides if products are known
	J,	oz/cwt		^			to be compatible
Thiram Thiram 50 WP Dyed, 50%	Slurry or drill box	8 oz/cwt		х		х	
42-S Thiram, 42%	Liquid or slurry	8 fl oz/cwt		Х		X	

¹Dosage = Amount of formulated product to apply.

²X = Product labeled for crop and disease; Blank = product not labeled for specific disease.

Sugarbeet SOIL APPLICATION

Chemical (Fungicide Group)	Application	Dosage ¹	Control ² of Pythium	Remarks
Qols Azoxystrobin (11) Quadris, 22.9%	In-Furrow Spray	0.4-0.6 fl oz/1000 ft of row (5.8-8.7 fl oz/A with 36" rows)	X	Resistance statement 5 ³
Trifloxystrobin (11) Gem 500 SC, 42.6%	In-Furrow Spray	2.9-3.6 oz/A in band	X	Resistance statement 5 ³
				For suppression of Rhizoctonia.
Mefenoxam (4) Ridomil Gold EC, 48%	7-inch band preplant incorporated	0.21-0.43 fl oz/1,000 ft. of row	Х	Resistance statement 4 ³ See label for planting restrictions within 12 months of application.
Ridomil Gold GR, 2.5%	7-inch band preplant incorporated	4.3-8.6 oz/1,000 ft. of row	Х	Main 12 months of approacion.
Ultra Flourish, 25.1%	7-inch band preplant incorporated	0.43-0.86 fl oz/1,000 ft. of row	х	

¹Dosage = Amount of formulated product to apply.

²X = Product labeled for crop and disease; Blank = product not labeled for specific disease.

³See fungicide resistance management statements of page 9-10.

Sugarbeet **FOLIAR SPRAYS**

			Disease C	ontrol ³		
Chemical (Fungicide Group)	Application ¹	Dosage ²	Cercospora Leaf Spot⁴	Powdery Mildew	Remarks	
Copper (M) Basicop WP, 53%	Spray	4 lb/A	x			
Champ DP, 57.6%	Spray or fungigation	1.33-3.33 lb/A	X	OPPOSITOR CONTRACTOR C		
Champ WG, 77%	Spray or fungigation	2-5 lb/A	X	THE CONTRACT OF THE CONTRACT O		
Champ Formula 2 Flowable, 35.5%	Spray or fungigation	1.33-3.33 pt/A	X			
Cuprofix Ultra 40 Disperss, 71.1%	Spray or fungigation	1.25-3.0 lb/A	X			
Kocide 2000, 53.8%	Spray or fungigation	1.5-3.75 lb/A	X			
Kocide 3000, 46.1%	Spray or fungigation	0.75-2.0 lb	X			
Kocide 4.5 LF, 37.5%	Spray or fungigation	1.33-2.66 pt/A	X			
Fenbuconazole (3) Enable 2F, 23.5%	Spray	8 fl oz/A	х	Х	Preharvest interval of 14 days. Resistance statement 3 ⁷	
Mancozeb (M3) Dithane DF Rainshield NT, 75% Dithane F-45, 37%	Spray or fungigation Spray or fungigation	1.5-2 lb/A 1.2-1.6 qt/A	X X		Do not apply mancozeb within 14 days of harvest. Do not exceed 11.2 lb ai/A per season of total	
Dithane M-45, 80%	Spray or fungigation	1.5-2 lb/A	X		EBDC (mancozeb and/or maneb), i.e, do not exceed 14 lb/A of	
Manex II, 37%	Spray or fungigation	1.2-1.6 qt/A	X		formulated WP or DF or 11.2 qt/A of formulated flowable product per	
Manzate ProStick, 75%	Spray or fungigation	1.5-2 lb/A	x		season.	
Penncozeb, 80%	Spray or fungigation	1.5-2 lb/A	X			
Penncozeb DF, 75%	Spray or fungigation	1.5-2 lb/A	×			
Mancozeb (M3) + Copper (M) ManKocide 15%: 46.1% Cuprofix MZ Disperss,	Spray or fungigation Spray or fungigation	2.5-6.5 lbs/A 3.75-4.75 lbs/A	X X		Do not exceed 36.8 lbs product/acre/season Do not apply within 14 days of harvest.	
30.4% + 22.1%	,				,	
Maneb (M3) Maneb 80, 80% or Maneb 75 DF, 75%	Spray or fungigation	1.5-2 lb/A	x		Do not apply within 14 days of harvest. Do not exceed 11.2 lb ai/A/season of total EBDC	
Manex, 37%	Spray or fungigation	1.2-1.6 qt/A	X		(mancozeb and/or maneb).	

¹Spray = ground or aerial, Fungigation = application through sprinkler irrigation system.

²Dosage = Amount of formulated product to apply.

³X = Product labeled for crop and disease; Blank = product not labeled for specific disease.

⁴Begin when disease is first observed in field. Higher rates are used when disease is severe on susceptible varieties. Use 5-10 gal. water airplane or 20-40 gal water and at least 100 psi with ground equipment. Repeat tin or copper at 10-14 days. Repeat maneb or mancozeb at 7-10 days.

Sugarbeet (continued) FOLIAR SPRAYS

			Disease Control ³		
Chemical (Fungicide Group)	Application ¹	Dosage ²	Cercospora Leaf Spot ⁴	Powdery Mildew	Remarks⁵
Difenoconazole (3) Inspire SB, 23.2%	Spray or fungigation	7 fl oz/A	X	X	Resistance statement 3. Do not apply within 7 days of harvest. Do not apply more than 28 fl oz/A/season.
Propiconazole (3) Tilt 3.6 E.C. 41.8% or Propiconazole E- AG 41.8% Bumper 41.8 EC, 41.8%	Spray	4-6 fl oz/A	Х	Х	Resistance statement 3.
Prothioconazole (3) Proline 480 SC, 41.0%	Spray	5.0-5.7 fl oz/A	Х	х	Resistance statement 3. Proline at 5.7 fl oz/A in a 7" or less band also controls Rhizoctonia stem and crown canker. Do not apply more than 17.1 fl oz of Proline per year. Do not apply within 7 days of harvest.
Qols					Resistance statement 5 ⁶
Azoxystrobin (11) Quadris, 22.9%	Spray or fungigation	6.2-15.4 fl oz/A	Х	X	2.88 qt Quadris/Acre/season maximum. May be applied the day of harvest.
Pyraclostrobin (11) Headline, 23.6%	Spray or fungigation	9-12 fl oz/A	Х	X	48 fl oz Headline/Acre/season maximum. Has a 7 day PHI.
Trifloxystrobin (11) Gem 500 SC, 42.6%	Spray only	2.9-3.6oz/A	х	X	15.2 oz Gem/Acre/season maximum. Has a 21 day PHI.
Sulfur (M) Super Six, 52%	Spray or fungigation	8 pt/A		х	Apply sulfur fungicide if mildew appears prior to mid-September. One application gives protection for 4 weeks. Degree of control
Microthiol Disprzess 80%	Spray or fungigation	5-10 lb/A		х	depends on amount of sulfur used (if less than 5 lb ai is used, only partial control may result).
Micro Sulf, 80%	Spray or fungigation	5-10 lb/A		X	

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²Dosage = Amount of formulated product to apply.

³X = Product labeled for crop and disease; Blank = product not labeled for specific disease.

⁴Begin when disease is first observed in field. Higher rates are used when disease is severe on susceptible varieties. Use 5-10 gal. water airplane or 20-40 gal water and at least 100 psi with ground equipment. Repeat tin or copper at 10-14 days. Repeat maneb or mancozeb at 7-10 days.

⁵See current Sugarbeet Production Guide for management strategies.

⁶See fungicide resistance management statements of page 9-10.

Sugarbeet (continued) FOLIAR SPRAYS

			Disease Control ³		
Chemical (Fungicide Group)	Application ¹	Dosage ²	Leaf Spot⁴	Powdery Mildew	Remarks
Tetraconazole (3) Eminent, 11.6%	Spray or fungigation	13 fl oz/A	Х	Х	Preharvest interval of 14 days. Resistance Statement 3^7
Thiophanate methyl (1) Thiophanate methyl 85 WDG, 85%	Spray	0.4 lbs/A	X ⁵	×	Resistance statement 1 ⁷
Topsin 4.5 FL, 45% or T-Methyl E-AG 4.5F	Spray or fungigation	10-20fl oz/A 0.5-1.0 lb/A	X ⁵	x x	
Topsin M WSB, Topsin 70W, or T-methyl 70W WSB, 70% or T- Methyl E-AG 70WSB	Spray or fungigation	0.5-1.0 lb/A	^	^	
Triphenyltin Hydroxide (TPTH) RUP* (30) Super Tin 80WP AgPak, 80% or Agri Tin, 80%	Spray	2.5-5.0 oz/A	X _e		RESTRICTED USE PESTICIDE. Do not exceed 15 oz/A of Super Tin 80WP per season. Do not feed treated tops to livestock. Do not enter treated areas within 48 hrs. of treatment without protective clothing specified on label. Ground application must be with closed cabs. A Sec 24 (c) state label allows
SuperTin 4L or Agri Tin 4L, 40%	Spray	4.0-8.0 fl oz/A	X _e		treatment up to 7 days before harvest. Do not exceed 24 fl oz/A/season for SuperTin 4L.

¹Spray = ground or aerial, Fungigation = application through sprinkler irrigation system.

²Dosage = Amount of formulated product to apply.

³X = Product labeled for crop and disease; Blank = product not labeled for specific disease.

⁴Begin when disease is first observed in field. Higher rates are used when disease is severe on susceptible varieties. Use 5-10 gal. water airplane or 20-40 gal water and at least 100 psi with ground equipment. Repeat tin or copper at 10-14 days. Repeat maneb or mancozeb at 7-10 days.

⁵Because benzimidazole (Topsin M) resistant strains of *Cercospora beticola* have developed in many sugarbeet growing areas, Topsin M should only be used once per season and only in combination with a non-benzimidazole fingicide.

⁶See current Sugarbeet Production Guide for management strategies.

⁷See fungicide resistance management statements of page 9-10.

^{*}Designates restricted use pesticide.