






GRAPE

2021 SOLUTION GUIDE








Maximize yield and profit potential
with HELM crop protection products

PRODUCT RECOMMENDATION TIMING

	DORMANT	BUD BREAK	18-INCH GROWTH	BLOOM	BUNCH CLOSURE	VERAISON	PRE- HARVEST	POST- HARVEST
WEED CONTROL								
 GAMMA		7-Day PHI						
 HELMQUAT 3SL	14-Day PHI							
 VERDURE-X*	365-Day PHI							
 ZONE 4F	3-Day PHI							
DISEASE CONTROL								
 HELMSTAR PLUS SC			14-Day PHI					

* Non-bearing crop

GRAPE PRODUCT RECOMMENDATIONS

Herbicides	Active Ingredient	Group	Rate/A	REI	PHI	Max Rate/Year	Description
 GAMMA	Tergeo™ (70.0%)	14	0.5 - 1.5 fl oz	12 hours	7 days	4.5 fl oz/A	NEW non-selective contact herbicide for directed post-emergence application. Controls 50+ grass and broadleaf weeds including ALS, triazine and glyphosate-resistant species. Offers a novel active ingredient and ultra-low use rate formulation. Recommend for use with glyphosate.
 HELMQUAT 3SL	Paraquat (43.8%)	22	1.7 - 2.7 pt	24 hours	14 days	13.5 pt/A 5 application max per year	Non-selective burndown herbicide for grass and broadleaf weed control. Top formulation with superior mixing qualities. Excellent resistance management tool. Economical option with equivalent performance to market leading products.
 VERDURE-X*	Diquat (37.3%)	22	1.5 - 2 pt	24 hours	365 days	NA	Non-selective herbicide for site preparation prior to planting and up to 1 year of harvest. Liquid formulation with no risk of harmful soil residues left behind. Restricted entry interval of 12 hours.
 ZONE 4F	Sulfentrazone (39.6%)	14	4 - 12 fl oz	12 hours	3 days	12 fl oz/A	Maximum strength preemergence herbicide that controls 100+ grass, broadleaf and sedge weeds, plus glyphosate, imidazolinones and ALS-resistant species. Provides long residual, flexible use rates and broad tank mix compatibility.
Fungicide	Active Ingredient	Group	Rate/A	REI	PHI	Max/Crop	Description
 HELMSTAR PLUS SC	Tebuconazole (22.0%) Azoxystrobin (11.0%)	3 11	7.2 fl oz	12 hours	14 days	57.6 fl oz/A	Premium fungicide with two complementary systemic active ingredients. Convenient premix formulation. Provides preventive and curative activity plus a residual barrier to inhibit newly forming diseases from occurring. Long-lasting control of Powdery mildew, Botrytis bunch rot ¹ and Black rot.

* Non-bearing crop

¹ Suppression

See individual product labels for complete details on rates, application guidelines and use restrictions.

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HELM Agro US, Inc. • 401 E. Jackson St., Suite 1400, Tampa, FL 33602 • P: 813.621.8846 • F: 813.621.0763 • connect@helmagro.com

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2021 Solution Guide_Grapes_010921