

WINE GRAPE GUIDE TO WEED MANAGEMENT



DISCLAIMER

Recommendations in this guide are given for general information only and do not give the user the right to use a product in a manner not in accordance with the pesticide label or Pest Control Products Act. Perennia, by funding and printing this publication, and the editors/authors, do not offer any warranty or guarantee and do not assume any liability for crop loss, animal loss, health, safety, or environmental hazard caused by the use of any pesticide, advice, or recommendation in this schedule. Pesticides used in this schedule are products labeled for the target and crop. This information was retrieved from the Pest Management Regulatory Agency online list of Registered Products Database. The list of products presented in this schedule is intended to be complete, based on products known to be available in the region, but in no way is guaranteed to be complete. Some of the products listed may not be available. Trade names are given as a convenience to producers and are neither an endorsement of the product nor a suggestion that similar products are not available or effective.

Discard old editions of the pesticide spray guide. Each year, Perennia specialists update the pesticides and information contained in this publication.

ONLINE RESOURCE

The information contained in the following summary is also available online in an interactive format at <https://www.farmdatatools.perennia.ca/pest-guides/>

Emergency and First Aid Procedure for Pesticide Poisoning

- If poisoning from exposure to a pesticide by swallowing, inhalation or contact with skin or eyes is suspected, read the product label of the pesticide container and carry out first aid treatment as suggested.
- If a person is seriously injured, call 911 immediately.
- Emergency advice on pesticide poisoning is available 24 hours/day from the Atlantic Canada Poison Centre. Phone: 1-844-764-7669 (NS & PEI).

All Herbicides in the Wine Grape Weed Management Guide 2026



Group	Active Ingredient	Herbicide	PCP #	Weed Type	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Status Update
-	acetic acid	Serene 20 LI	30248	Broadleaf,Grass	-	0.5, when dry	-	-	
1	fluzifop-P-butyl + S-isomer	Venture L 125 EC	21209	Grass	30	0.5	1 app	-	
1	quizalofop-p-ethyl	Assure II 96 EC	25462	Grass	15	0.5	1 app	-	
1	sethoxydim	Poast Ultra 450 EC	24835	Grass	30	0.5	1 app	-	Phase-out: Last sale by retail October 9, 2026. Expiry date of registration and final use by October 9, 2027.
2	flazasulfuron	Chikara 25 WG	33130	Broadleaf,Grass	75	0.5	1 app	-	
2	rimsulfuron	Prism 25 SG	30057	Broadleaf,Grass	21	0.5	1-2 apps, 60 g/ha, see label	-	
5	simazine and related triazines	Princep Nine-T 90 WG	16370	Broadleaf,Grass	-	0.5	1 app	-	
5	simazine and related triazines	Simadex Simazine 500 F	15902	Broadleaf,Grass	-	0.5	-	-	
5	simazine and related triazines	Simazine 480 SN	23181	Broadleaf,Grass	-	0.5	1 app	-	
9	glyphosate	Roundup Transorb HC 540 LI	28198	Broadleaf,Grass	14	0.5	1 app	-	
9	glyphosate	Roundup WeatherMAX 540 SN	27487	Broadleaf,Grass	14	0.5	3	-	
10	glufosinate ammonium	Ignite 150 SN	28532	Broadleaf,Grass	40	0.5	2 apps, 6.7 L/ha	-	
14	carfentrazone-ethyl	Aim 240 EC	28573	Broadleaf,Grass	3	0.5	2 apps, 300 mL/ha	14 d	
14	flumioxazin	Chateau EZ 480 SC	34036	Broadleaf,Grass	60	0.5	2 apps	30 d	
14	tiafenacil	Insight 339 SC	34234	Broadleaf,Grass	-	0.5	2 apps, 148 mL	21 d	
14	Tiafenacil	Phoenix 339 SC	35401	Broadleaf,Grass	-	0.5	148 mL/ha	21 d	
15	dimethenamid-P	Frontier Max 720 EC	29194	Broadleaf,Grass	30	1	1 app	-	
20	dichlobenil	Casoron G-4	12533	Broadleaf,Grass	-	0.5	-	-	
29	indaziflam	Alion 200 SC	30451	Broadleaf,Grass	14	0.5	1	365	

Guide to Weed Management in Wine Grape 2026

Weed Type	Group	Active Ingredient	Herbicide Product	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
01: Pre emergence										
Broadleaf, Grass	2	flazasulfuron	Chikara 25 WG	150-200 g/ha, see label	-	75	0.5	1 app	-	<p>Pest stage: Pre or post emergence (broadleaf weeds and grasses less than 10 cm tall and before tillering of grasses)</p> <p>Crop safety: Apply only to 3rd year planted vines and older. Use of a protective sleeve is required for third year vines. Do not apply to areas where roots are exposed or suckers are actively growing and have not hardened off. Do not apply to plants that are under stress due to drought, standing water, heavy insect and/or disease pressure, low soil fertility etc.</p>
	5	simazine and related triazines	Princep Nine-T 90 WG	4.0-5.0 kg/ha, see label	300 L/ha	-	0.5	1 app	-	<p>Crop stage: Use only in vineyards established for at least 3 years.</p> <p>Pest stage: Apply in fall or early spring prior to weed emergence. Apply after de-hilling.</p>
	5	simazine and related triazines	Simadex Simazine 500 F	7.2-9.0 L/ha, see label	300 L/ha	-	0.5	-	-	<p>Crop safety: Only for use in vineyards established 3 years or more.</p> <p>Pest stage: Apply in fall or early spring prior to weed emergence. Apply after de-hilling.</p>
	5	simazine and related triazines	Simazine 480 SN	7.5-9.4 L/ha, see label	300 L/ha	-	0.5	1 app	-	<p>Crop safety: Only for use in vineyards established 3 years or more.</p> <p>Pest stage: Fall or early spring prior to weed emergence.</p>
	14	flumioxazin	Chateau EZ 480 SC	280-420 g/ha	-	60	0.5	2 apps	30 d	<p>Crop stage: Do not apply after bud break unless using hooded or shielded equipment.</p> <p>Crop safety: Do not apply to grapes established for less than 2 years. Unacceptable crop injury may occur if product comes in contact with non-dormant structures. Do not apply within 100m of non-dormant pears. Avoid direct or indirect spray contact to foliage and green bark (non-barked vines, with the exception of undesirable suckers). If grapes are established less than 2 years ensure that they are trellised at least 3 ft from the soil surface or are protected from spray contact by non-porous wrap, grow tubes or waxed containers. Apply only to grapes that are trellised, staked or are free standing.</p> <p>Pollinators/Beneficials: Toxic to certain beneficial arthropods.</p>
	15	dimethenamid-P	Frontier Max 720 EC	963 mL/ha	170 L/ha (min)	30	1	1 app	-	<p>Pest stage: Pre-emergent</p> <p>Crop safety: Do not apply during bud swell, bud break or at time of first flush new growth.</p>
	20	dichlobenil	Casoron G-4	110-225 kg/ha, see label	-	-	0.5	-	-	<p>Crop safety: Use in established plantings only. Do not apply if air temperatures are above 10-15°C to avoid injury from volatilization. Apply only to dormant healthy vines that have been established for at least two full years. Do not apply on hazy, hot days</p> <p>Crop/Pest stage: If spring application is made, apply before the weeds germinate and a month before the grape buds burst.</p>

Guide to Weed Management in Wine Grape 2026



Weed Type	Group	Active Ingredient	Herbicide Product	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	29	indaziflam	Alion 200 SC	375 mL/ha		14	0.5	1	365	Crop Safety: DO NOT apply ALION Herbicide to grapes that have been established for less than five full growing seasons after transplanting. Do not apply prior to any type of soil disturbance, including hilling/dehilling operations and apply only after the soil settles. Do not apply in grapes grown on sand or loamy-sand soils. Ensure that the grapes have been planted at least 30 cm deep or that there is 30 cm of soil barrier (berm) between the soil surface and the major portion of the root system.
02: Post emergence										
Broadleaf, Grass	-	acetic acid	Serene 20 LI	See label	-	-	0.5, when dry	-	-	Crop safety: Do not apply to vines established less than two years. Avoid contact with foliage. Do not apply to grapes that are not trellised or staked unless they are free standing. Applied as a uniform band or spot treatment directed at weeds on the ground between the trunks. Crop stage: Do not apply during the period after budbreak through final harvest, unless using shielded application equipment to ensure that no spray drift will come in contact with fruit or foliage. Recommendations: Apply on a mostly sunny day with temperatures at or above 21° C.
Grass	1	fluzafop-P-butyl + S-isomer	Venture L 125 EC	0.6-2.0 L/ha	-	30	0.5	1 app	-	Crop stage: For use in new plantings, 2nd year non-bearing grapevines, and established plantings. Pest stage: Apply post-emergence to actively growing grasses before tillering.
	1	quizalofop-p-ethyl	Assure II 96 EC	380-750 mL/ha	100 L/ha (min)	15	0.5	1 app	-	Pest stage: Post emergence Coverage: Apply with a recommended surfactant at 5L per 1000L of spray volume (0.5% v/v). Crop safety: Use a directed spray application to minimize the amount of spray coming into contact with the vines.
	1	sethoxydim	Poast Ultra 450 EC	0.32-1.1 L/ha, see label	-	30	0.5	1 app	-	Pest stage: Post-emergent. Crop stage: Bearing plantings and non-bearing 1st and 2nd year plantings. Coverage: Apply with Merge adjuvant at 0.5-2.0 L/ha as a banded application directed to the base of the grape vine.
Broadleaf, Grass	2	rimsulfuron	Prism 25 SG	60 g/ha	100 L/ha (min)	21	0.5	1-2 apps, 60 g/ha, see label	-	Pest stage: Early post-emergence to actively growing weeds Coverage: Use with a recommended non-ionic surfactant at 2L per 1000 L spray solution. Crop safety: Use on grapes that have gone through at least one growing season, and are in good health and vigor.
	2	rimsulfuron	Prism 25 SG	60 g/ha	100 L/ha (min)	21	0.5	1-2 apps, 60 g/ha, see label	-	Pest stage: Early post-emergence to actively growing weeds Coverage: Use with a recommended non-ionic surfactant at 2L per 1000 L spray solution. Crop safety: Use on grapes that have gone through at least one growing season, and are in good health and vigor.

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Weed Type	Group	Active Ingredient	Herbicide Product	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	2	rimsulfuron	Prism 25 SG	60 g/ha	100 L/ha (min)	21	0.5	1-2 apps, 60 g/ha, see label	-	<p>Pest stage: Early post-emergence to actively growing weeds</p> <p>Coverage: Use with a recommended non-ionic surfactant at 2L per 1000 L spray solution.</p> <p>Crop safety: Use on grapes that have gone through at least one growing season, and are in good health and vigor.</p>
	2	rimsulfuron	Prism 25 SG	60 g/ha	100 L/ha (min)	21	0.5	1-2 apps, 60 g/ha, see label	-	<p>Pest stage: Early post-emergence to actively growing weeds</p> <p>Coverage: Use with a recommended non-ionic surfactant at 2L per 1000 L spray solution.</p> <p>Crop safety: Use on grapes that have gone through at least one growing season, and are in good health and vigor.</p>
	2	rimsulfuron	Prism 25 SG	60 g/ha	100 L/ha (min)	21	0.5	1-2 apps, 60 g/ha, see label	-	<p>Pest stage: Early post-emergence to actively growing weeds</p> <p>Coverage: Use with a recommended non-ionic surfactant at 2L per 1000 L spray solution.</p> <p>Crop safety: Use on grapes that have gone through at least one growing season, and are in good health and vigor.</p>
	9	glyphosate	Roundup Transorb HC 540 LI	1.5-8 L/ha, see label	-	14	0.5	1 app	-	<p>Pest stage: Actively growing weeds.</p> <p>Crop safety: Only for use in vineyards established 3 years or more. Direct spray to avoid leaves and green stems of grapevines. Remove all sucker growth from the spray zone before spraying, except for the Concord variety of grape. Suckering should be conducted within 2 weeks prior to application.</p>
	9	glyphosate	Roundup WeatherMAX 540 SN	1.5-8 L/ha		14	0.5	3		<p>Crop Safety: Remove all sucker growth from the spray zone before spraying. Suckering should be conducted within 2 weeks prior to application. Do not apply to vines which have been established less than 3 years.</p>
	10	glufosinate ammonium	Ignite 150 SN	2.7-5.0 L/ha, see label	110-330 L/ha, see label	40	0.5	2 apps, 6.7 L/ha	-	<p>Pest stage: Apply as a directed spray before annual weeds are 30 cm high.</p> <p>Crop safety: Only for use in vineyards established 3 years or more. Avoid suckers and green bark.</p> <p>Recommendations: Can also be used in backpack/handheld sprayers. See label for rate information.</p>
	14	carfentrazone-ethyl	Aim 240 EC	36.5-150 mL/ha, see label	200 L/ha	3	0.5	2 apps, 300 mL/ha	14 d	<p>Coverage: Apply with a non-ionic surfactant such as Agral 90 (0.25% v/v) or Merge adjuvant (0.1% v/v).</p> <p>Crop safety: May cause crop injury if the spray is allowed to come in contact with the green bark, leaves, bloom or fruit.</p>
	14	tiafenacil	Insight 339 SC	74-148 mL/ha, see label	-	-	0.5	2 apps, 148 mL	21 d	<p>Pest stage: Post-emergence burndown (directed).</p> <p>Crop safety: Do not allow spray solution to contact green stems or foliage. Do not exceed 60 cm height above target.</p>
	14	Tiafenacil	Phoenix 339 SC	74-148 mL/ha, see label	100 L/ha	-	0.5	148 mL/ha	21 d	<p>Pest stage: Post-emergence burndown</p> <p>Crop safety: DO NOT exceed 60 cm height above target</p>