

HIGHBUSH BLUEBERRY GUIDE TO WEED MANAGEMENT



DISCLAIMER

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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 Highbush Blueberry Weed Guide 2026



Group	Active Ingredient	Herbicide	PCP #	Weed Type	PHI (days)	REI (days)	Product Maximum	Application Interval	Status Update
-	caprylic acid + capric acid	BioLink EC	33590	Broadleaf, Grass	0	1	-	14 d	
1	clethodim	Centurion 240 EC	27598	Grass	14	0.5	1 app	-	
1	Clethodim	Arrow All In 120 EC	33225	Grass	14	0.5	1 app	-	
1	fluzifop-P-butyl + S-isomer	Venture L 125 EC	21209	Grass	15	0.5	1 app	-	
1	sethoxydim	Poast Ultra 450 EC	24835	Grass	1	0.5	2 app, 1.1 L/ha	14 d	Phase-out: Last sale by retail October 9, 2026. Expiry date of registration and final use by October 9, 2027.
2	halosulfuron, present as methyl ester	Sandea 73 WG	31209	Broadleaf, Grass	14	0.5	1-2 app, see label	45 d	
2	rimsulfuron	Prism 25 SG	30057	Broadleaf, Grass	21	0.5	60 g/ha	-	
4	2,4-D, present as dimethylamine salt	2,4-D Amine 600 LI	5931, 14726, 17511, 26163	Broadleaf	30	0.5	1 app	-	
4	clopyralid	Lontrel 360 LI	23545	Broadleaf	45	0.5	1 app	-	
4	clopyralid	Lontrel XC 600 SN	32795	Broadleaf	45	0.5	1 app	-	
4	clopyralid (present as triisopropanolamine salt)	Pyralid 300	32265	Broadleaf	45	0.5	1 app	-	
5	metribuzin	Sencor 75 DF WG	17242	Broadleaf, Grass	2 years	0.5	1 app	-	
5	metribuzin	Squadron 75 WG	32081	Broadleaf, Grass	2 years	0.5	1 app	-	
5	terbacil	Sinbar 80 WG	30082	Broadleaf, Grass	80	0.5	1 app	-	
6	bentazon	Basagran 480 LI	12221	Broadleaf	25	0.5	2 app	7 d	
9	glyphosate	Roundup Transorb HC 540 LI	28198	Broadleaf, Grass	30	0.5	1 app	-	
10	glufosinate ammonium	Ignite 150 SN	28532	Broadleaf, Grass	14	0.5	2 app, 6.7 L/ha	-	
14	carfentrazone-ethyl	Aim 240 EC	28573	Broadleaf, Grass	1	0.5	1 app, 117 mL/ha	-	
14	flumioxazin	Chateau 51 WDG	29231	Broadleaf, Grass	7	0.5	2 app	30 d	
14	flumioxazin	Chateau EZ 480 SC	34036	Broadleaf, Grass	7	0.5	2 app	30 d	
14	oxyfluorfen	Goal 2XL 240 EC	24913	Broadleaf	50	0.5	1 app	-	
14	saflufenacil	Eragon 342 LQ	31469	Broadleaf	-	0.5	1 app	-	
14	sulfentrazone	Authority 480 SC	29012	Broadleaf, Grass	3	0.5	1 app every two years	-	
15	napropamide	Devrinol 2-XT 240 L	31688	Broadleaf, Grass	70	0.5	1 app	-	
15	S-metolachlor + R-enantiomer	Dual II Magnum 915 EC	25729	Broadleaf, Grass	30	0.5	1 app	-	
15	S-metolachlor + R-enantiomer	Komodo 915 EC	33599	Broadleaf, Grass	30	0.5	1 app	-	
20	dichlobenil	Casoron G-4	12533	Broadleaf, Grass	100	0.5	1 app	-	
27	mesotrione	Callisto 480 SC	27833	Broadleaf	-	0.5	1 app	-	
27	mesotrione	Mester 480 SC	33632	Broadleaf	-	0.5	1 app	-	
29	indaziflam	Alion 200 SC	30451	Broadleaf, Grass	14	0.5	1 app	-	

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Weed Types	Group	Active Ingredient	Herbicide Product	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings	
A: Planting Year											
01: Pre emergence											
Broadleaf, Grass	5	metribuzin	Sencor 75 DF WG	1 kg/ha	150-300 L/ha	2 years	0.5	1 app	-	Coverage: Apply as banded application to weed free soil after planting.	
	5	metribuzin	Squadron 75 WG	1.0 kg/ha	150-300 L/ha	2 years	0.5	1 app	-	Pest Stage: Pre-emergent. Crop Stage: New planting only, after planting. Coverage: Apply as a directed band under the bushes. Recommendations: Rainfall or overhead irrigation (less than 1") is necessary after application. Do not apply if heavy rainfall (more than 1") is expected shortly after application. Do not use on soils with less than 2% organic matter.	
	15	napropamide	Devrinol 2-XT 240 L	18.75 L/ha	200-900 L/ha	70	0.5	1 app	-	Crop Stage: Fall through early spring. Coverage: Use as a directed spray and avoid contact with fruit or foliage.	
	15	S-metolachlor + R-enantiomer	Dual II Magnum 915 EC	1.25-1.75 L/ha, see label	150-300 L/ha	30	0.5	1 app	-	Coverage: Banded application directed to the base of the plants. Avoid contact with trunk and foliage.	
	15	S-metolachlor + R-enantiomer	Komodo 915 EC	1.25-1.75 L/ha, see label	150-300 L/ha	30	0.5	1 app	-	Coverage: Banded application directed to the base of the plants. Avoid contact with trunk and foliage.	
Broadleaf	27	mesotrione	Callisto 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	Pest Stage: Pre-emergent and post-emergent (up to 8-leaf weed stage, pre-bloom to crop). Coverage: Broadcast ground application directed to base of blueberry bushes. Recommendations: Use non-ionic surfactant at 0.2% v/v for post-emergent applications.	
	27	mesotrione	Mester 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	Pest Stage: Pre-emergent and post-emergent (up to 8-leaf stage). Crop Stage: Pre-bloom. Coverage: Use Agral 90 at 0.2% v/v for post-emergent applications.	
A: Planting Year											
02: Post emergence											
Broadleaf, Grass	-	caprylic acid + capric acid	BioLink EC	3-9% v/v, see label	-	0	1	-	14 d	Pest Stage: Works best on newly emerged weeds. Crop Safety: Avoid contact with crop. Coverage: Do not add additional surfactant. Recommendations: Adjust spray water to below pH 6.	
	Grass	1	clethodim	Centurion 240 EC	190-380 mL/ha, see label	Minimum 100 L/ha	14	0.5	1 app	-	Pest Stage: Actively growing and prior to tillering. Coverage: Broadcast spray directed to the ground. Use Amigo adjuvant at 0.5-1.0% v/v.
		1	Clethodim	Arrow All In 120 EC	380-760 mL/ha	Minimum 100 L/ha	14	0.5	1 app	-	Pest Stage: 2-6 leaf. Coverage: Broadcast ground application directed to base of blueberry bushes.
	1	fluazifop-P-butyl + S-isomer	Venture L 125 EC	0.6-2.0 L/ha, see label	100-300 L/ha	15	0.5	1 app	-	Pest Stage: Actively growing, prior to tillering.	

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Weed Types	Group	Active Ingredient	Herbicide Product	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	1	sethoxydim	Poast Ultra 450 EC	0.32-1.1 L/ha, see label	50-200 L/ha	1	0.5	2 app, 1.1 L/ha	14 d	Pest Stage: Actively growing, prior to tillering. Coverage: Use Merge Adjuvant at 0.5-2.0 L/ha or Assist Oil Concentrate at 0.5-2.0 L/ha.
Broadleaf	4	clopyralid	Lontrel 360 LI	420-830 mL/ha, see label	100-200 L/ha	45	0.5	1 app	-	Crop Stage: New and established plantings. Crop Safety: Do not apply from one week prior to bloom until one week after bloom.
	4	clopyralid (present as triisopropanolamine salt)	Pyralid 300	504-996 mL/ha, see label	100-200 L/ha	45	0.5	1 app	-	Pest Stage: Young, actively growing.
Broadleaf, Grass	9	glyphosate	Roundup Transorb HC 540 LI	1.87-3.73 L/ha, see label	-	30	0.5	1 app	-	Crop Safety: Systemic herbicide. Avoid new shoots and contact with fruit, foliage, and canes. Coverage: Apply as a directed spray under the bushes.
	14	carfentrazone-ethyl	Aim 240 EC	37-117 mL/ha, see label	Minimum 100 L/ha	1	0.5	1 app, 117 mL/ha	-	Crop Safety: Contact herbicide. Apply with a hooded sprayer. Recommendations: Use Agral 90 at 0.25% v/v.
Broadleaf	14	oxyfluorfen	Goal 2XL 240 EC	1.0 L/ha (broadcast rate)	500 L/ha	50	0.5	1 app	-	Pest Stage: 2-4 leaf, actively growing. Coverage: Banded application on either side of the row. Do not spray crop directly. Refer to label for banded application rate.
	14	saflufenacil	Eragon 342 LQ	73 mL/ha	Minimum 100 L/ha	-	0.5	1 app	-	Crop Stage: Dormant period. Crop Safety: Do not allow spray to contact dormant canes or green tissue. Coverage: Use Merge adjuvant at 1.0 L/ha. Apply as a banded application directed to the base of bushes.
	27	mesotrione	Callisto 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	Pest Stage: Pre-emergent and post-emergent (up to 8-leaf weed stage, pre-bloom to crop). Coverage: Broadcast ground application directed to base of blueberry bushes. Recommendations: Use non-ionic surfactant at 0.2% v/v for post-emergent applications.
	27	mesotrione	Mester 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	Pest Stage: Pre-emergent and post-emergent (up to 8-leaf stage). Crop Stage: Pre-bloom. Coverage: Use Agral 90 at 0.2% v/v for post-emergent applications.
B: Established Planting										
01: Pre emergence										
Broadleaf, Grass	2	halosulfuron, present as methyl ester	Sandea 73 WG	35-70 g/ha, see label	Minimum 140 L/ha	14	0.5	1-2 app, see label	45 d	Crop Stage: Plantings established at least one year. Crop Safety: Avoid contact with blueberry bushes. Recommendations: Non-ionic surfactant recommended for post-emergent applications. Do not spray on plastic mulch.

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Weed Types	Group	Active Ingredient	Herbicide Product	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
	5	terbacil	Sinbar 80 WG	2.75-4.25 kg/ha, see label	Minimum 200 L/ha	80	0.5	1 app	-	<p>Crop Stage: Plantings established at least one year.</p> <p>Pest Stage: Newly emerged weeds and has long residual activity.</p> <p>Crop Safety: Injury may occur on sandy soils, even with the low rate.</p> <p>Recommendation: Rain required for activation.</p>
	14	flumioxazin	Chateau 51 WDG	280-420 g/ha, see label	-	7	0.5	2 app	30 d	<p>Crop Stage: Plantings established at least 2 years.</p> <p>Crop Safety: Use hooded sprayer if applying after budbreak.</p> <p>Recommendations: Do not apply on fine-textured soils. Use the low rate on coarse-textured soils. Moisture is necessary to activate the herbicide.</p>
	14	flumioxazin	Chateau EZ 480 SC	298-448 mL/ha, see label	-	7	0.5	2 app	30 d	<p>Crop Stage: Plantings established at least 2 years.</p> <p>Crop Safety: Use hooded sprayer if applying after budbreak.</p> <p>Recommendations: Do not apply on fine-textured soils. Use the low rate on coarse-textured soils. Moisture is necessary to activate the herbicide.</p>
	14	sulfentrazone	Authority 480 SC	219-292 mL/ha, see label	Minimum 100 L/ha	3	0.5	1 app every two years	-	<p>Crop Safety: Avoid contact with foliage and bark. Use hooded sprayer if applying after petal fall.</p> <p>Recommendations: Use higher rates for soils with a pH less than 7.0 and organic matter greater than 3%.</p>
	15	napropamide	Devrinol 2-XT 240 L	18.75 L/ha	200-900 L/ha	70	0.5	1 app	-	<p>Crop Stage: Fall through early spring.</p> <p>Coverage: Use as a directed spray and avoid contact with fruit or foliage.</p>
	15	S-metolachlor + R-enantiomer	Dual II Magnum 915 EC	1.25-1.75 L/ha, see label	150-300 L/ha	30	0.5	1 app	-	<p>Coverage: Banded application directed to the base of the plants. Avoid contact with trunk and foliage.</p>
	15	S-metolachlor + R-enantiomer	Komodo 915 EC	1.25-1.75 L/ha, see label	150-300 L/ha	30	0.5	1 app	-	<p>Coverage: Banded application directed to the base of the plants. Avoid contact with trunk and foliage.</p>
	20	dichlobenil	Casoron G-4	175-225 kg/ha, see label	-	100	0.5	1 app	-	<p>Pest Stage: Pre-emergent.</p> <p>Crop Stage: Apply to cool and moist but unfrozen soil in late fall or spring before weeds emerge.</p> <p>Recommendations: Do not apply if air temperature is above 15°C. Do not use on light, sandy soil.</p>
Broadleaf	27	mesotrione	Callisto 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	<p>Pest Stage: Pre-emergent and post-emergent (up to 8-leaf weed stage, pre-bloom to crop).</p> <p>Coverage: Broadcast ground application directed to base of blueberry bushes.</p> <p>Recommendations: Use non-ionic surfactant at 0.2% v/v for post-emergent applications.</p>
	27	mesotrione	Mester 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	<p>Pest Stage: Pre-emergent and post-emergent (up to 8-leaf stage).</p> <p>Crop Stage: Pre-bloom.</p> <p>Coverage: Use Agral 90 at 0.2% v/v for post-emergent applications.</p>

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Weed Types	Group	Active Ingredient	Herbicide Product	Rate	Water Volume	PHI (days)	REI (days)	Product Maximum	Restricted Reapplication (days)	Notes / Restrictions / Warnings
Broadleaf, Grass	29	indaziflam	Alion 200 SC	375 mL/ha	Minimum 100 L/ha	14	0.5	1 app	-	Crop Stage: Plantings established at least one year. Can be applied late fall for early spring weed control. Coverage: Apply as a directed spray to the soil. Do not apply prior to any type of soil disturbance.
B: Established Planting										
02: Post emergence										
Grass	1	clethodim	Centurion 240 EC	190-380 mL/ha, see label	Minimum 100 L/ha	14	0.5	1 app	-	Pest Stage: Actively growing and prior to tillering. Coverage: Broadcast spray directed to the ground. Use Amigo adjuvant at 0.5-1.0% v/v.
	1	Clethodim	Arrow All In 120 EC	380-760 mL/ha	Minimum 100 L/ha	14	0.5	1 app	-	Pest Stage: 2-6 leaf. Coverage: Broadcast ground application directed to base of blueberry bushes.
	1	fluazifop-P-butyl + S-isomer	Venture L 125 EC	0.6-2.0 L/ha, see label	100-300 L/ha	15	0.5	1 app	-	Pest Stage: Actively growing, prior to tillering.
	1	sethoxydim	Poast Ultra 450 EC	0.32-1.1 L/ha, see label	50-200 L/ha	1	0.5	2 app, 1.1 L/ha	14 d	Pest Stage: Actively growing, prior to tillering. Coverage: Use Merge Adjuvant at 0.5-2.0 L/ha or Assist Oil Concentrate at 0.5-2.0 L/ha.
Broadleaf, Grass	2	halosulfuron, present as methyl ester	Sandea 73 WG	35-70 g/ha, see label	Minimum 140 L/ha	14	0.5	1-2 app, see label	45 d	Crop Stage: Plantings established at least one year. Crop Safety: Avoid contact with blueberry bushes. Recommendations: Non-ionic surfactant recommended for post-emergent applications. Do not spray on plastic mulch.
	2	rimsulfuron	Prism 25 SG	60 g/ha (broadcast rate)	140-190 L/ha	21	0.5	60 g/ha	-	Pest Stage: Early post-emergent. Crop Stage: Plantings established at least one year. Coverage: Apply as a directed spray (avoid contact with blueberry plants) or as a banded application. Recommendations: Use a non-ionic surfactant at 0.2% v/v.
Broadleaf	4	2,4-D, present as dimethylamine salt	2,4-D Amine 600 LI	1.7 L/ha	60-240 L/ha	30	0.5	1 app	-	Pest Stage: Early spring when emerged and actively growing. Coverage: Use as a directed spray only (between rows of blueberries). Do not overspray.
	4	clopyralid	Lontrel 360 LI	420-830 mL/ha, see label	100-200 L/ha	45	0.5	1 app	-	Crop Stage: New and established plantings. Crop Safety: Do not apply from one week prior to bloom until one week after bloom.
	4	clopyralid	Lontrel XC 600 SN	250-500 mL/ha, see label	100-200 L/ha	45	0.5	1 app	-	Crop Stage: New and established plantings. Crop Safety: Do not apply from one week prior to bloom until one week after bloom. Avoid contact with blueberry bushes.
	4	clopyralid (present as triisopropanolamine salt)	Pyralid 300	504-996 mL/ha, see label	100-200 L/ha	45	0.5	1 app	-	Pest Stage: Young, actively growing.

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	6	bentazon	Basagran 480 LI	1.75 L/ha	100-400 L/ha	25	0.5	2 app	7 d	<p>Pest Stage: Yellow nutsedge - 15-20 cm tall. Other annual broadleaf weeds - small and actively growing.</p> <p>Crop Stage: Established plantings only.</p> <p>Recommendations: Use Assist Oil Concentrate 1.0-2.0 L/ha for yellow nutsedge.</p>
Broadleaf, Grass	9	glyphosate	Roundup Transorb HC 540 LI	1.87-3.73 L/ha, see label	-	30	0.5	1 app	-	<p>Crop Safety: Systemic herbicide. Avoid new shoots and contact with fruit, foliage, and canes.</p> <p>Coverage: Apply as a directed spray under the bushes.</p>
	10	glufosinate ammonium	Ignite 150 SN	2.7-5.0 L/ha, see label	330-1100 L/ha	14	0.5	2 app, 6.7 L/ha	-	<p>Pest Stage: Emerged, young and actively growing, less than 30 cm height.</p> <p>Crop Stage: Established plantings only.</p> <p>Crop Safety: Contact herbicide. Avoid contact with foliage, stems, and green bark.</p> <p>Coverage: Apply to dry foliage.</p>
	14	carfentrazone-ethyl	Aim 240 EC	37-117 mL/ha, see label	Minimum 100 L/ha	1	0.5	1 app, 117 mL/ha	-	<p>Crop Safety: Contact herbicide. Apply with a hooded sprayer.</p> <p>Recommendations: Use Agral 90 at 0.25% v/v.</p>
Broadleaf	14	oxyfluorfen	Goal 2XL 240 EC	1.0 L/ha (broadcast rate)	500 L/ha	50	0.5	1 app	-	<p>Pest Stage: 2-4 leaf, actively growing.</p> <p>Coverage: Banded application on either side of the row. Do not spray crop directly. Refer to label for banded application rate.</p>
	14	saflufenacil	Eragon 342 LQ	73 mL/ha	Minimum 100 L/ha	-	0.5	1 app	-	<p>Crop Stage: Dormant period.</p> <p>Crop Safety: Do not allow spray to contact dormant canes or green tissue.</p> <p>Coverage: Use Merge adjuvant at 1.0 L/ha. Apply as a banded application directed to the base of bushes.</p>
	27	mesotrione	Callisto 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	<p>Pest Stage: Pre-emergent and post-emergent (up to 8-leaf weed stage, pre-bloom to crop).</p> <p>Coverage: Broadcast ground application directed to base of blueberry bushes. Recommendations: Use non-ionic surfactant at 0.2% v/v for post-emergent applications.</p>
	27	mesotrione	Mester 480 SC	300 mL/ha	100-200 L/ha	-	0.5	1 app	-	<p>Pest Stage: Pre-emergent and post-emergent (up to 8-leaf stage).</p> <p>Crop Stage: Pre-bloom.</p> <p>Coverage: Use Agral 90 at 0.2% v/v for post-emergent applications.</p>