



Donaghys Grunt 600 Glyphosate

A form of Glyphosate, a non-residual herbicide for non-selective control of most annual and perennial weeds and a wide range of brush weeds in agriculture, horticulture, forestry, and industrial areas.

Active Ingredient: Contains 600g/litre glyphosate as the potassium & triethanolamine salts in the form of a soluble concentrate.

- Grunt 600 is fully loaded with environmentally friendly and readily biodegradable surfactants that allow low application rates to be achieved in comparison with generic glyphosate products on the market. Grunt 600 does not contain POEA. Five years of research and trial work on Grunt 600 allows users under the right conditions to apply 1000 gms ai/ha compared with the industry standard of 1440 gms ai/ha.
- Donaghys Grunt 600 is a foliar absorbed and translocated herbicide for control of emerged weeds only and is not residual.
- The effects of Donaghys Grunt 600 may not be apparent for 3 - 7 days depending on the weather conditions, weed species and the herbicide rate used. Some perennial weeds may not show effects for 14-21 days.



Pasture Management: It is recommended that grazing or cultivating treated plants is delayed for 1 day for annual weeds and 3 days for perennial weeds to ensure chemical absorption.

Withholding Period: A withholding period is not required except for ragwort. For treated ragwort, stock should be removed until treated plants brown-out.

TIME OF APPLICATION:

- Do not spray if rain is likely within 2 hours. Do not allow spray contact with non-target plants as severe injury may occur.
- For timing application instructions refer to the accompanying weed table.

Mixing: When tank mixing with other chemicals, add Donaghys Grunt 600 after other water soluble products, but before flowables eg. Flowable Simazine.

USE SITUATIONS:

Situation:	Crop:	Critical Comments:
Drains and Waterways:		Do not spray until 75% of the weed is above water level. Do not allow submergence for 6 hours post spraying.
Forestry: For control of all listed weeds prior to planting of forest or nursery or around established plants.		Treat weeds as per Weed Table. Do not allow spray contact with established trees.
Industrial: As a knockdown or selective in spot spraying.		Treat weeds as per Weed Table.
Market Gardens: As a knockdown prior to seeding, transplanting and after harvest clean-up.	All Vegetables	For best results do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds. Cultivate within 21 days of spraying to ensure control. Do not sow until a satisfactory seed bed has been prepared. An appropriate residual herbicide can be used as a tank mix with Donaghys Grunt 600 Glyphosate.



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Situation:	Crop:	Critical Comments:
<p>Minimum Tillage: For total weed control prior to seeding.</p>	Cereal, pasture and leguminous crops	For best results do not disturb weeds by grazing or cultivation for 1 day post spraying of annual weeds and 10 days post spraying of perennial weeds. To ensure control and avoid re-spraying of newly germinated weeds; work sprayed area by full cultivation or the seeding operation within 3 weeks of spraying. Do not sow until a satisfactory seed bed has been prepared. For improved control of clover, tank mix with Donaghys Sprayoff Mate or appropriate herbicide containing dicamba. Refer to Sprayoff Mate, or appropriate label for management considerations.
<p>Orchards and Vineyard: As a knockdown prior to establishment or where plants are 3 years old.</p>	Apple, citrus, grapevines, kiwifruit, pear and stonefruit.	Use a directed or shielded spray. DO NOT let spray contact any green foliage or new growth. Spray before bloom stage of crop. Donaghys Grunt 600 Glyphosate can be tank mixed with an appropriate herbicide for residual control.
<p>Pasture Seedhead Suppression: (Unimproved pastures only.)</p>	Unimproved / native pastures	Use to delay the onset of reproductive growth and maintain unimproved pasture in a vegetative growth stage. Treat in Spring at early grass seedhead emergence. Using rates of no more than 155mL/ha of Donaghys Grunt 600 Glyphosate. Ensure accurate sprayer calibration is achieved and DO NOT add any penetrant or surfactant. Do not use on Ryegrass based and other improved pasture types as yield suppression may occur. Maximum suggested treatment area should not exceed 10-15% of farm area in any one year. Do not use in dry conditions unfavorable for growth following application.
<p>Pasture – Spot Treatment:</p>		Refer to Weed Control Table for use rates. Ensure product does not contact desirable plants. Selective wiper application may be used to control erect weeds. Follow up treatment and/or pasture improvement may be required to control seedling re-establishment.
<p>Pasture - Renovation:</p>		May be used to control weeds prior to reseeding the pasture or sowing other crops.
<p>Pre-Harvest:</p>	Wheat, barley, oats and peas	<p>Wheat / Barley/ Oats: Apply 7-12 days prior to harvest when grain moisture content is less than 30%.</p> <p>Peas: Apply 7-14 days prior to harvest, when pods have dried. Use only on peas for threshing. Do not harvest within 7 days of application to ensure full herbicide translocation into roots. Do not apply to undersown crops including clovers as they may be severely damaged. DO NOT APPLY TO CROPS WHICH WILL BE HARVESTED FOR SEED. Use rates up to 2.5L/ha dependent on specific targeted weeds. Avoid treating drought stressed plants.</p>
<p>Pre-cutting Silage Crops:</p>	Silage crops	Application of Donaghys Grunt 600 Glyphosate may be made to silage paddocks pre-rotation into cropping. Use 1.7-2.5L/ha with 100mL/100L of Donaghys Wetter-Sticker organosilicone surfactant, at a water rate of 100-200L/ha. Use high rate on perennial ryegrass, or if silage lodged or rank. Post spray application, wait 2 days minimum for cutting annual ryegrass, or 4 days minimum for cutting perennial ryegrass. Maximum time before cutting should not exceed 10 days.



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WEED CONTROL:

Annual Weeds:	Rate:			Comments:
	Boom/Aerial L/ha	Handgun L/100L	Knapsack mL/10L	
Annual weeds, undesirable grass and sub. clover	0.40 – 0.80	0.1	8.1	Apply at the higher rate for larger weeds. May be tank mixed with residual herbicides. Wiper: 33% solution.
Cleavers	0.65	0.20	20	
Perennial Weeds:				
Australian Sedge	2.5	0.40	40	Apply from November-March. Do not disturb for 4 weeks post treatment. Wiper: 33% solution
Browntop	2.5	0.40	40	Apply when plants 5-10cm high and actively growing.
Californian Thistle	1.7	0.40	40	Spray after the development of flower buds but before Autumn browning. Mowing 10 days after treatment may improve control. Re-treatment the following Summer may also be necessary to prevent re-infestation from seed.
Couch	1.25– 2.5	0.40	40	Autumn treatment is preferable. Use higher rate in late Spring. Apply to actively growing plants at least 10cm high.
Dock	1.7 – 3.75	0.40	40	Spray actively growing plants before seedheads have formed. Use higher rate for mature plants.
Floating and Reed sweet grass	2.5	0.40	40	Apply at early seedhead stage to actively growing, unstressed plants.
Indian doab	3.75	0.40	40	Apply at early seedhead stage.
Johnson grass, Kikuyu and mercer grass (non aquatic)	2.5	0.40	40	Best results when applied at early seedhead stage with active growth conditions.
Nodding thistle	1.7	0.40	40	For wiper application use 33% solution and apply to actively growing plants when at least 10cm of the thistle can be wiped. A double pass may be necessary in heavier infestations. Follow up spot treatments may also be required.
Paspalum spp.	1.7 -2.5	0.40	40	Use lower rate when plants are at early seedhead stage and higher rate when it has formed established clumps.
Potato (volunteer)	1.25	0.20	20	
Prairie grass	0.65	-	-	
Ragwort	2.5	0.40	40	Apply to actively growing plant with sufficient leaf on multicrown plants for herbicide uptake. Use a wiper when plants are 10-15cm above the pasture with a double pass in heavy infestations. Do not add surfactants. CAUTION: Ragwort may become more palatable following spraying and stock should be removed until brown-out of treated plants.



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Ratstail	2.1	-	-	Apply to actively growing plants (March-April), in dry conditions delay spraying until sufficient green foliage.
Rautahi (Cutty grass) / Rushes	2.5 2.5	0.40 0.4	40 -	Apply to actively growing plants (January-March). Burning or slashing may take place after brown-out, usually one month after treatment.
Perennial ryegrass	0.65 -1.7	0.40	40	Apply any time plants are actively growing and 3-10cm tall. Use low rate January-July when cultivation is to follow spraying. Use 1.9L/ha August-September. Add 100mL Donaghys Wetter-Sticker organosilicone surfactant per 100L for boom/aerial and handgun applications and 10mL for knapsack applications.
Tall fescue	2.5	0.40	40	Apply to actively growing plants January-March.
Yarrow	1.3 – 2.6	-	-	Apply to plants with 5-10cm of leaf. For best results cultivate after treatment. Use lower rate when a competitive crop to yarrow is to be drilled. Use higher rate when crop to be drilled is a poor competitor.
Scrub Weeds:				
Barberry	-	0.40	40	Apply from flowering to late fruit (January-April). Regrowth should reach 1.5m before spraying.
Blackberry	3.75 – 8.0	0.35 – 0.65	40	Apply from flowering to fruiting stage (December-April) before frost occurs. Early treatment may be preferable in drought prone areas (December-January). Allow 6-10 weeks before burning/slashing or oversowing. Use higher rate for hard to kill blackberry, aerial applications and where no follow up treatment is planned. Where treatment is carried out under marginal conditions, regrowth can be expected within 1-2 years.
Boxthorn	-	0.50	-	Apply to actively growing plants (November-April). Ensure complete coverage of dense thickets. Do not add surfactants or spray salt damaged plants.
Bracken	3.75	0.40	40	Apply after fronds unfurled but before frost browning (January-July). Add 250mL Donaghys Wetter-Sticker organosilicone surfactant per 100L for boom/aerial and handgun applications and 20mL per 10L for knapsack applications.
Broom	3.75	0.40	40	Best aerial results are obtained when plants are in full leaf, handgun application may be made at any time. Add 250mL of Donaghys Wetter-Sticker organosilicone surfactant per 100L for boom/ aerial and handgun applications and 20mL per 10L for knapsack application.
Buddleja	3.75	0.4	40	Aerial application should be made in February-April when plants are up to 2m high using a No. 4 or 6 tip and 1500-2000pKa. Handgun application may be made at any time to actively growing plants.
Gorse	-	0.40	-	Ensure complete coverage. Apply at any time of the year as long as plants are not stressed using No. 4-8 spray tips and 1500-2000kPA. Burning and slashing 40-60 days after treatment may improve control levels. Add 200mL/100L Donaghys Wetter-Sticker organosilicone surfactant.



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Old mans beard	-	0.40 – 0.85	80	Apply before leaf senescence (November-March). Use lower rate for small vines. If complete coverage is not possible vines should be cut back to ground level in Winter or Spring and regrowth sprayed at the higher rate in march when at least 50cm long. Follow-up treatment is recommended to control seedlings.
Pampass grass / Toetoe	-	0.4	40	Apply in Spring-Autumn and ensure complete coverage. Reduced control may occur if plants are in flower at time of spraying.
Ring Fern	0.45 – 1.25	0.15	15	Use 1.9L/ha January-April and 0.65-1.3L/ha for pasture manipulation December-April. Use higher rate for heavy infestations. Burn 4-6 weeks after spraying and oversow with pastures.
Sweet Brier	5	0.40	40	Spray from late flowering to early leaf yellowing. Ensure full coverage. Add 250mL Donaghys Wetter-Sticker surfactant per 100L for boom/ aerial and handgun applications and 20mL per 10L for knapsack applications.
Willow	5.6 – 7.5	0.4	-	Spray January-April before leaf fall begins. Ensure complete coverage. Add 250mL Donaghys Wetter-Sticker surfactant per 100L.

Code	Product	Unit	Qty. per unit	Barcode
AGGT0010	DONAGHYS GRUNT 600 10L	EACH	1	9400579556747
AGGT0100	DONAGHYS GRUNT 600 100L	EACH	1	9400579556273
AGGT1000	DONAGHYS GRUNT 600 1000L	EACH	1	9400579552169

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Refer to product label for complete usage, safety and product information before use.