

They don't make 'em like they used to

by Paul Martin, Director, Rainbow & Brown



I've reached that age when fond musing about the way things used to be has become a favourite pastime. I love to grumble about modern music, modern gadgets and modern everything, really. It's the Grumpy Old Man syndrome, and it's rather fun.

Well, it's certainly fun for me, although I imagine that it's torture for any young whippersnapper obliged to listen to my curmudgeonly complaining. They groan and roll their eyes, to which I say 'Pshaw!' and other crusty exclamations. Which doubles my fun.

But I'm right, of course, as you well know. Newer isn't necessarily better. Sometimes it's not even close.

Some readers may recall that photography is my hobby, if only because I occasionally slip one of my 'interesting' photographs into this newsletter. My pictures tend to be a bit curmudgeonly too, and look to many bewildered viewers like they were taken in the 19th century rather than the 21st. Others take the less charitable view that my second hobby must be drinking.

Photography in the digital age is a wonderful example of the relentless quest for progress through technology. The big names in cameras, Nikon and Canon etc, now bring out a newer and better model every few weeks. And it's always so tempting to believe their hype that the latest model is finally the ultimate camera, and that it will transform you from a hopeful hack to a celebrated genius at the stroke of a credit card.

I recently succumbed, and bought a new camera. It's the gleaming jewel in the picture at right. But here's the thing; it's not new at all. It's not even digital; instead it's a film camera (remember film?) It's also a quite expensive camera, but I got it very cheap because hardly anybody wants these cameras any more. In its heyday it was the tool of

choice of top professionals: many of the great fashion, portrait and fine art photographs of history were taken with this kind of camera. It's entirely manual; there's no auto-anything at all. You even have to wind it via a little crank between exposures. And you only get 12 exposures, rather than the thousand or more that will fit onto the latest digital cards.

So why? Why would I want it? Because its huge medium-format film provides a level of resolution and image quality that the latest mass-market digital cameras can't hope to match. And because it encourages you - actually, it obliges you - to think and to make choices and decisions about taking a photograph. And in doing that, it decreases your output but increases your involvement and satisfaction.

It's also an object of considerable beauty in itself, to those who admire craftsmanship and precision. It is durable and solid (and heavy); a thing that was literally built to last.

But here's the other thing: it *didn't* last. You can't buy this camera new any more, because the company that made them itself didn't last. They imagined, I suppose, that making a superb, high-quality instrument, the best that they could make, was enough. They failed to understand that we don't really want the best any more; we just want the latest.



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The cheaper, stronger and smarter Glyphosate

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A Bio-Gro certified foliar fertiliser for horticulture

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Now available for Rainbow & Brown products

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Mid-year closedown dates for our factory

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Details, Sizes & Prices

A Postcard from Granny

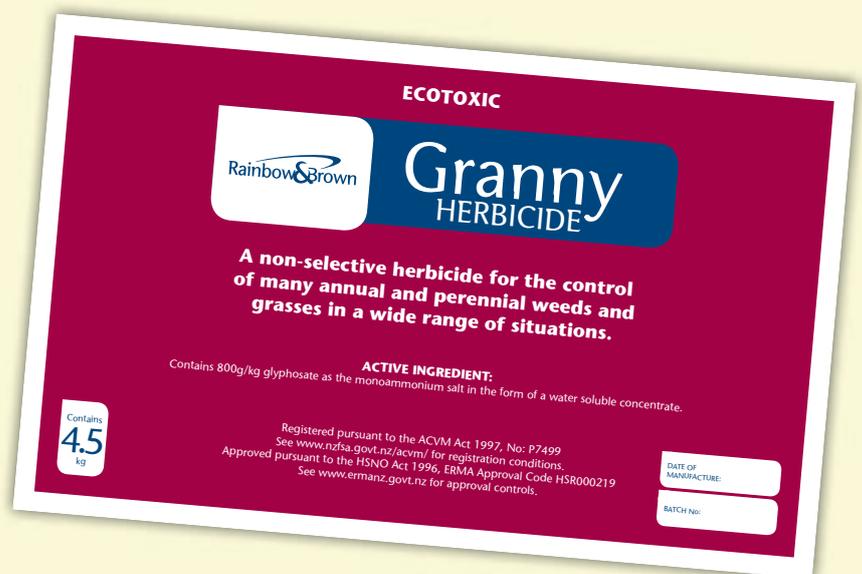
This month we're launching a new glyphosate herbicide. Instead of being a liquid it's soluble granules. The granule form provides several advantages:

- 1. More concentrated than the liquid alternatives (it's 80% active!)*
- 2. Less expensive (save up to 25%!)*

- 3. The packaging is more environmentally acceptable.*
- 4. We get to use 'Granny' as a brand name.*

All the details are on the next two pages of this Newsletter.

*Best Wishes from Granny
and from the folks at
Rainbow & Brown*



Cheaper, Stronger, Smarter Glyphosate. ***And it's called GRANNY!***

Granny is our new super-strength glyphosate herbicide. It's made of water-soluble granules containing 800g/kg of active glyphosate.

Why Granules?

Because we can make it much more concentrated. At 800g/kg active (or 80%), Granny is more than double the strength of the conventional 360g/L liquid glyphosate formulations, and it's 1.5 times stronger than even the 540g/L high-strength liquid brands.

There have been granular glyphosate products before, but they were more expensive than the liquid equivalents, and sometimes frustrating to dissolve and use. Granny changes all that: it's made of small, extruded granular particles that are easily soluble, and instead of being more expensive, Granny actually saves you money.

Less Freight Cost

Because of the high concentration, you get more active ingredient for a given weight, and so the cost of transport becomes a lot less. Here's the difference: A normal 20L pack of liquid glyphosate weighs about 24kgs. But the actual equivalent of that 24kg of liquid is just a 9kg pack of Granny. The weight saving for transport is over 60%! And with Rainbow & Brown, that saving becomes particularly substantial, because our prices include the cost of delivery to each individual customer (rather than just bulk delivery to a regional retail store), so transport is a quite high cost item for us, compared to other brands. So the lower transport cost of Granny allows us to sell what is actually a more expensive product - because Granny is actually *more* expensive than liquids to manufacture - for a lower final price to the customer.

Smarter Packaging

Granny puts an end to all those bulky, inconvenient and expensive empty containers. And vastly reduces the environmental impact into the bargain. Our basic pack unit is a new technology strong foil bag containing 4.5kgs of Granny, and a carton of two of those bags, or 9kgs, is the equivalent of a 20L liquid pack. But the carton itself is entirely biodegradable, and the foil bags are just a fraction

of the weight and bulk of an empty 20L container. It slashes your waste disposal problem by over 95%! Our smaller pack is a wide-mouth jar containing 2.25kg of Granny, which is equivalent to 5L of standard strength liquid glyphosate. If you've used our BuckShot herbicide granules, you will be familiar with it. The container is plastic, but it has the advantage of being much more re-useable on the farm or in the shed, because of its handy size and shape, and the very large neck opening with a secure screw cap. It's not the sort of container you'll want to throw away when it's empty.

Cost Saving

How much you'll save depends on how much you've been paying for liquid glyphosate till now. If you take our current price for 20L of 360g/L glyphosate, which is \$143 incl GST & delivery, then the equivalent 9kg pack of Granny will save you \$33, or just over 23%.

Some brands of liquid glyphosate are dearer than ours of course, and the saving with Granny compared to those brands will be even more. However, as you will have perhaps seen, the farm retail chain stores sometimes have big specials on basic liquid glyphosate, often using their own house brands made for them by other manufacturers, at prices below our own (for liquids). These heavily promoted specials are, it won't surprise you to learn, intended to attract buyers into the store so they can sell you other more profitable things as well. It's a perfectly reasonable marketing tactic of course; supermarkets do it all the time with toilet paper and soap powder, priced at a loss to attract store traffic.

But it's not a tactic that we can afford to employ, not least because you don't have to come into our door anyway; you just call us to order. With Granny, we can finally compete even with those loss-leader specials.

For details of how much Granny to use, and how it compares to regular liquid glyphosate, turn to the next page.

MORE ON GRANNY – THE NEW, SMARTER, LOWER-COST GLYPHOSATE FROM RAINBOW & BROWN.

How to Compare

Here's a small table showing the pack sizes of Granny that are available, and how much of the popular liquid glyphosate sizes each is equivalent to:

Granny 800g/kg Is equal to:	2.25kg	4.5kg	9kg
Liquid 360g/L	5L	10L	20L
Liquid 450g/L	4L	8L	16L
Liquid 540g/L	3.3L	6.7L	13.3L

How Much to Use

Here's another small table showing how much to use for various jobs, compared with the standard 360g/L liquid glyphosate*:

	360g/L Liquid	Granny
General spraying -15L knapsack	150ml	68g
General spraying - hand gun	1L per 100L	450g per 100L
Boom spraying average pasture	4L per Ha	1.8kg per Ha

* The above equivalent application rates will result in your applying exactly the same amount of active glyphosate to achieve exactly the same effect on both weeds and pasture.

Granny herbicide is available this month, with first deliveries planned for third week of the month. Here are the sizes and the prices. We've included the saving versus the current price for our 360g/L liquid glyphosate in equivalent sizes.

2.25kg bottle	\$45	5L equiv.	save \$6
4.5kg carton	\$70	10L equiv.	save \$10
9kg carton	\$110	20L equiv.	save \$33

All prices include both GST and delivery to you. You also get a free measuring scoop with each pack, as well as the full Directions for Use leaflet.

Order now at our introductory price, and try the new Granny glyphosate for yourself before the start of the new season.

Remarkable new product:

LITHOVIT

We have the opportunity to market a most remarkable new BIO-GRO certified fertilizer for horticultural and nursery use. It's called Lithovit and it's a natural product that works by boosting photosynthesis, primarily by greatly increasing the amount of CO₂ available to the plant. It's applied in quite low concentrations as a foliar spray and is suitable for both indoor and outdoor horticultural situations. We'll be marketing Lithovit from the spring of this year, and will include more details in the August 2011 Newsletter.

Lithovit has its own NZ website, so if you're interested in learning more immediately, check it at www.lithovit.co.nz or call Rainbow & Brown.

And if you want to try a small FREE sample in advance, call us toll-free on (0508) 299299. We'll send enough for you to do your own mini-trial now, so you can see the terrific results for yourself before the start of the new growing season.

**You can
try it for
FREE!**

Lithovit® | product data

Lithovit® natural CO₂ foliar fertilizer for outdoor use is a top-quality nanotechnological product created by tribodynamic activation and micronization. Highly energized Lithovit® particles, sprayed finely onto the leaf surface, are taken up directly through the stomata and converted into carbon dioxide. In this way Lithovit® can considerably increase the photosynthesis rate, since the essential factor limiting photosynthesis outdoors is the natural CO₂ content of the air. This leads to yield increases, accompanied by a reduced water requirement, since with Lithovit® the plants are able to keep the stomata closed longer in case of water stress. In addition, the micro-nutrients also contained in the product and the trace elements that influence plant physiology, such as manganese, copper, zinc etc., increase the resistance, growth, vitality and general quality of the crop.



- Improves crop yields, quality and storage properties
- Accelerates growth and intensifies green coloration
- Increases resistance, growth and vitality
- Increases plant stability, frost and drought tolerance and pest resistance
- Enhances the supply of essential trace elements to the plants
- Reduces the water requirement
- Not suitable for plants preferring an acid soil

Lithovit® | cost

Based on a maximum dosage of 1.5 - 2.0 Kg/ha as a 0.5% solution (500g of Lithovit® per 100l of water).
Cost = under \$15.00 per 100l of mixture.

HAZNOTE

A new series of HAZNOTEs for Rainbow & Brown products is now available for download from our website.

The HAZNOTE is a simplified, single page document that summarises the hazard, safety and first aid aspects of each product. It is much easier to read and use than the more complex Safety Data Sheet - which is also available via the website, but which staggers under the weight of non-essential information that it is required by law to carry.

HAZNOTEs are designed for quick reference, and are especially suitable for those employing staff, as well as for professional spray contractors. The document also doubles as a Hazardous Goods Declaration, should your work require you to carry one for transport purposes.

We're presently working our way through the product range, and all the HAZNOTE titles will be complete and available for download by the end of May.

To check them out, go to www.rainbowbrown.co.nz and click on 'Downloads'.

PRODUCT SAFETY HAZNOTE

Rainbow & Brown Ltd
68A Tallyho Street, Rotorua, New Zealand



www.rainbowbrown.co.nz
Toll Free: (0508) 299 299

EMERGENCY INFORMATION & STORAGE GUIDE & HAZARDOUS GOODS DECLARATION				TRICLO HERBICIDE			
Substance Identification: Light amber liquid containing 600g/L Triclopyr (CAS 111-90-0)				Proper Shipping Name: Environmentally hazardous substance, solid NOS (triclopyr butoxyethyl ester)			
UN No 3082	DG 9	Subsidiary Risk Class NA	Packing Group III	Flash Point 95°C	HAZCHEM 2X	Marine Pollutant Yes	Maximum Transport Qty 250L
Hazard Classifications 6.1D, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C (ERMA Approval No HSR 000829)				Tracking Required No	Approved Handler Use only	IER Guide No 47	
STORAGE AND SEGREGATION							
Storage: Store in tightly closed original container in a cool, dry, well-ventilated and secure area when not in use. Keep out of reach of children.							
Aggregate Storage Volume Threshold: When stored with substances of the same hazard the aggregate quantity must be considered. Refer to NZS8409 Management of Agrichemicals and the HSNQ Regulations for full details							
Location Certificate NA	Hazardous Atmosphere Zone NA	No. of Fire Extinguishers NA	Hazard Class & Emergency 100L	Emergency Information 100L	Emergency Plan 100L	Secondary Containment 100L	
DO NOT store or load with: Class 1 Explosives				Segregate from: Foodstuffs, food containers, seeds and fertilisers. Check the Land Transport Rule Dangerous Goods 1999, Rule 45001 for additional information.			
EMERGENCY PROCEDURES FOR EMERGENCY ADVICE CALL (0508) 299299							
IF THIS HAPPENS				DO THIS			
Tanker/Vehicle Accident				Switch off engine and electrical equipment. Keep people away, warn other traffic. Call the emergency services on 111.			
Spill or leak				Eliminate ignition sources and naked lights. Use non-sparking tools. Wear PVC overalls, chemically-resistant gloves, facemask or goggles. Prevent further spillage. Absorb spilled product and place in sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings and place in the same disposal container. Refer to the product label or local authority for disposal advice.			
Fire				Call the Fire Service on 111. Keep non-involved persons clear. Wear PVC protective clothing and breathing apparatus. Extinguish fires using foam, dry chemical or carbon dioxide. During a fire toxic fumes may be released. Cool sealed drums with water to prevent rupture. Contain run-off and treat as for Spillage above.			
FIRST AID							
If swallowed				DO NOT induce vomiting. For advice contact a doctor or the National Poisons Centre on 0800 POISON (0800 764766).			
If in eyes				Hold eyelids apart and flush continuously with running water for at least 15 minutes. Get medical attention.			
If on skin				Remove contaminated clothing, flush skin with running water. Do not scrub skin.			
If inhaled				Remove affected person to fresh air. If not breathing give artificial respiration, preferably mouth-to-nose. Get medical attention for any symptoms that develop.			
HAZARDOUS GOODS DECLARATION							
Number and type of packages:		Gross Weight		Volume:			
Consignor:		Consignee:					
Dangerous Goods Declaration: I hereby declare that the contents of the consignment are accurately described above by the proper shipping name and are classified, packaged and identified according to the national rules, regulations and legislation applicable to the transport of this substance.							
<small>DISCLAIMER: The information provided in this document is based on sources believed to be accurate, but Rainbow & Brown Ltd assumes no responsibility for the accuracy, completeness or suitability of this information for its particular purpose.</small>							

JULY BREAK - MAKE A NOTE

We'll be having our usual winter close-down period in July so that our staff can take their annual surfing & seafood holiday on Waikiki Beach. We'll close at 4:00 pm on Friday 1st July and reopen, refreshed and tanned, at 9:am on Monday 25th July.

If you need anything over July, make sure you order before Friday the 1st.

WEED FILE:

BATHURST BUR



Xanthium spinosum

DESCRIPTION

Bathurst bur is a very nasty weed that is subject to Pest Plant Management in several regions of New Zealand. Details for your region, including your responsibilities, are available from your regional council.

In spite of its name, Bathurst bur originates not from Australia's V8 Mecca, but from South America.

It's an erect, multi-branched annual herb growing to about a metre in height. The upright stems carry distinctive triple yellowish spines to 3cm long, grouped in opposite pairs at the base of each leaf. The stem itself is stiff and downy, and whitish in colour.

The somewhat similar Noogoora bur lacks the triple spines of Bathurst bur, and also has larger leaves.

The leaves of Bathurst bur are slender and sharply pointed, up to about 10cm long, and are dark green and shiny with white mid-ribs on the upper surfaces, but pale and dull on the undersides.

Flowers are pale green, small and inconspicuous. Flowering occurs from December through to April.

The root system of the Bathurst bur consists of a long taproot.

The fruit is what gives this plant its name (well, the second part of its name). These are the woody oval shaped burs, up to 13mm long, and covered with a layer of thick hooded prickles that hook firmly to clothing and to the wool of sheep. It is by this tenacious method that the Bathurst bur is mostly spread; inside each bur are two seeds.

As well as having an obvious detrimental effect on wool, the burs are irritating to the skin of shearers, and damage the combs of the shearing handpiece. The sharp and difficult-to-remove burs also cause foot damage to stock. The seedling plant is also poisonous to stock, in particular to horses and pigs. And to round out the rap sheet of this unpleasant pest, the Bathurst bur is a host of fungal diseases of common horticultural plant species.

HABITAT

Although not a common plant, Bathurst bur occurs in parts of Northland, Auckland and

Hawkes Bay, less frequently in the lower half of the North Island, and also at scattered sites throughout the South Island.

It invades pasture, especially in high-fertility and warmer coastal areas, and is also found in waste land, arable land, summer crops and horticultural sites. It is frequently seen around stockyards, gates and races; the areas where the animals carrying the bur concentrate.

MANUAL CONTROL

Isolated plants can be grubbed out and must be removed and burned, because the burs of a dead plant will still drop to the ground and deposit the seeds within. The seeds remain viable in the soil for many years. For that reason even patches of Bathurst bur that are sprayed (see below) must still be manually removed and destroyed after spraying.

HERBICIDE CONTROL

Spraying before burs are formed is essential to reduce the chances of regrowth. Sprayed sites, especially if burs were present at spraying, will need to be monitored for several seasons to intercept any fresh germinations early. And it is essential to not allow any sprayed plants with burs to remain on the site even if dead.

Spot Spraying

All situations where spraying is required will effectively be spot spraying jobs, whether of a few individual plants, or of patches of denser plants. Remember that this is a notifiable pest plant, and some local authorities will provide control resources. Several herbicides are effective, and the choice comes down to what product is on hand and, to a lesser extent, the situation in which the Bathurst bur is growing.

- **Granny** at 45g/10L water.
- **Glyphosate 360** at 100ml/10L water or **Glyphosate 450** at 80ml/10L water.
- **GrassMate** at 60ml/10L water.
- **MSF600** at 1g/10L water.
- **Cobber** at 25ml/10L water (DO NOT use Cobber in home gardens)

In all cases when spraying, add **SuperWetter** penetrant at 20ml/10L water to ensure thorough penetration of the herbicide into the plant.



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SUBSCRIBE to our Weed File Library at our website (just click the 'Subscribe' button and fill out a simple form). Each time we publish a new one or update an existing one, we'll automatically email it to you as a printable one page full-colour PDF. You can also subscribe for a friend you think may be interested in receiving our Weed Files.

WEED FILE:

CAPE WEED



Arctotheca calendula

DESCRIPTION

Cape weed is an annual plant with daisy-like yellow flowers, and is sometimes incorrectly referred to as Cape daisy.

The plant forms large spreading rosettes that are particularly unwelcome visual blemishes in lawns, turf and sports grounds.

The leaves are deeply lobed, and are more jagged in appearance than other related dandelion-type flowering flat weeds. The terminal (tip) lobe is larger and more rounded than the rest, and individual leaves reach about 20cm in length. The leaf colour is green/grey on the upper side, and much paler and slightly woolly on the undersides.

Flowers are the most distinctive identification feature. They are up to 4cm in diameter and of the 'daisy' style, with dark purple centres and yellow florets (petals). The florets are bright yellow near the base, but becoming distinctly paler toward the tips. The flowers appear singly on stalks standing to about 10cm high. The Cape weed generally flowers from October to December.

The root system consists of a substantial fleshy taproot.

Cape weed is known to be poisonous, and has poisoned both cattle and sheep in Australia, as well as cattle in New Zealand. As with most poisonous weeds, stock will normally not eat it, though with such large spreading rosettes it will presumably be difficult to avoid entirely.

HABITAT

Cape weed appears in most parts of New Zealand and is spreading. It is most often found at roadsides, waste areas, lawns and turf, recreational grounds, and in pastures (though less frequently). It prefers the light sandy soils of coastal areas but copes well with heavier conditions and is appearing

more frequently in non-coastal situations.

Cape weed establishes readily where turf or pasture has been made sparse by drought. Recreational grounds using drought-resistant cultivars will be able to better resist infestation. Cape weed is most commonly spread by seed, and mowers used on lawns and recreational grounds should be well cleaned immediately after mowing flowering Cape weed, and especially before use on any un-infested areas.

In lawns, Cape weed can be controlled by preventing it from flowering and forming seed, via mowing and by spot spraying (see below).

HERBICIDE CONTROL

Cape weed is controlled by several herbicides, with the choice depending on the situation. Best results follow treatment when the rosette stage is young and growing actively.

Spot Spraying

- **Granny** at 45g/10L water (will damage oversprayed adjacent grass)
- * **Glyphosate 360** at 100ml/10L water (will damage oversprayed adjacent grass)
- **GrassMate** at 60ml/10L water (grass friendly, but damages clover)

Recreational Grounds and Pastures

- **GrassMate** at 2L/Ha in 200-300L water, boom sprayed when the weed is young and active, and preferably before flowering. This treatment will not damage grass species but will damage clover.
- **Cobber** at 1-2L/Ha in 200-300L water. Use the lower rate on seedlings. This treatment will damage clover. Note that Cobber CANNOT be used if the treated area is to be mowed and the clippings used for composting, or disposed of in a green waste-recycling centre.



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GLYPHOSATE 360 360g/L GLYPHOSATE AS THE ISOPROPYLAMINE SALT



ACVM No P5441

Non-selective herbicide for spraying out pasture, and general weed control.

- Glyphosate is the world's most popular and trusted herbicide.
- Safe to use, fast acting, non-toxic & economical.
- No residual effect in soil; drill new seed in 2 days.
- Withhold stock 2 days to allow penetration through plant.
- Use 1L/100L (hand) or 3-5L/ha (pasture).
- Add SprayWetter penetrant for best results.

5L.....	\$51
10L.....	\$80
20L.....	\$143
200L.....	\$1227

GLYPHOSATE 450 450g/L GLYPHOSATE AS THE ISOPROPYLAMINE SALT



ACVM No P7223

Non-selective herbicide for spraying out pasture, and general weed control.

- More concentrated for maximum economy
- Same user-friendly benefits as Glyphosate 360 (above).
- 25% stronger so goes 25% further (20L = 25L of the 360g/L product).
- Use 800ml/100L (hand) or 2.4-4L/ha (pasture).
- Add SprayWetter penetrant for best results.

5L.....	\$59
10L.....	\$90
20L.....	\$164
200L.....	\$1482

MSF600 Gorse & Brush Spray 600g/kg METSULFURON-METHYL



ACVM No P7027

For control of gorse and other scrub weeds in pasture, waste areas and forestry.

- The low-cost, proven choice for big and small jobs.
- Water-dispersible granule, easily soluble.
- Safe to handle, non-toxic to humans and animals.
- Gorse, blackberry, manuka, scrub, bracken, ragwort & thistles.
- For gorse use 20g/100L (hand), 500g/ha (aerial).
- Add SuperWetter penetrant for best results.

200g	\$55
500g	\$78
1kg	\$100

GRASSMATE 300g/L TRICLOPYR AS THE BUTOXYETHYL ESTER plus 100g/L PICLORAM AS THE AMINE SALT in the form of an emulsifiable concentrate



ACVM No P7417

For control of brushweeds, broadleaf and erect weeds in pasture.

- Kills gorse, broom, blackberry, tutus, sweet briar, matagouri & lupins.
- Also controls broadleaf weeds, including ragwort, thistles, fennel, nettle and inkweed at 2L/ha.
- Add SuperWetter penetrant year-round.
- 10-12L/ha for brush species, and 250-300ml/100L handgun (gorse rate)

2L.....	\$95
5L.....	\$195
10L.....	\$380
20L.....	\$695
100L.....	\$3395

MCPA 750 750g/L MCPA AS THE DIMETHYLAMINE SALT



ACVM No P8173

For control of thistles and other broadleaf weeds in pasture and cereals.

- Highly concentrated water soluble solution.
- Controls thistles of all species, especially in younger growth stages.
- Grass-friendly but higher concentrations damage clover.
- Economical at just 1.5-3.0 L/ha use rates.
- Use late autumn through to summer.
- Works well with Cobber herbicide against resistant thistles.

5L	\$85
10L	\$140
20L	\$255
200L	\$2400

COBBER 300g/L CLOPYRALID as the amine salt.

ACVM No P7790

For control of hard-to-kill and multi-crown thistles in pasture plus certain broadleaf and brush weeds.
(Approved Handler certificate required)

- Kills Californian, nodding, winged and variegated thistles incl large rosette and multicrown plants.
- Mix with 2,4-D or MCPA where thistles resistant to those herbicides exist.
- Also useful in cereal, Brassica and maize crops, plus forestry, orchards and shelter belts..
- Use 1-2L/Ha by boom or 100-200ml/100L spot spraying. Also good for wiper application.

2L.....\$189
5L.....\$378
10L.....\$726
20L.....\$1349

GIBBER 900 900g/kg GIBBERELIC ACID

ACVM No P8002

Growth promoter to boost pasture production in cool weather feed shortage conditions.

- High strength powder applied at just 9g/ha dissolved in water. (9g scoop included).
- Rapid increase of dry matter (DM) production during spring and autumn feed shortfalls; increases of 30-60% can be achieved within just 3 weeks.
- Depending on underlying fertility and pasture quality, this increase can be 250kgDM/Ha extra.
- Cost effective at just \$14.16/Ha, simple to apply with any spray gear.
- Sizes: 45g (5Ha) trial pack and 270g (30Ha) regular pack.

45g\$77
270g\$434

BUCKSHOT 20g/kg PICLORAM GRANULES

ACVM No 7717

For direct spot application dry granule treatment of broadleaf, erect and brush weeds.

- Controls ragwort, nodding thistle, gorse, inkweed, broom, docks, hemlock, sweet brier, woolly nightshade, tutsan, blackberry.
- Convenient and safe; apply by hand, by pogo stick applicator, or by applicator bottle.
- Carry Buckshot on the bike, tractor or ute for opportunistic spot weed control.
- Use 2g per plant or 30-55g/sq.m

5kg\$77
10kg\$148
20kg\$255

**NOW
BACK IN
STOCK**

RANGER 750g/kg THIFENSULFURON-METHYL GRANULES

ACVM No 7668

For control of docks and buttercups in pasture and cereal crops.

- Selective herbicide for use in pasture, wheat barley and oats.
- Also controls oxeye daisy.
- Excellent added to Glyphosate when spraying out pasture.
- Apply by air or ground boom, and spot spray.
- Scoop and measuring cylinder included.
- Use at 20g/Ha, so 100g pack will treat 5 hectares.

100g\$97
1kg\$874

TRICLO 600g/L TRICLOPYR AS THE BUTOXYETHYL ESTER

ACVM No P7189

For control of brushweeds, broadleaf and erect weeds in pasture.

- Grass and clover friendly.
- Blackberry, broom, gorse, lupin, tutus, fennel, sweet brier, Old Man's Beard, plus most broadleaf weeds in pasture.
- Apply in warmer months during active growing conditions.
- Add SuperWetter for gorse and all woody species.
- Brush weeds use 10L/ha or up to 300ml/100L by hand.
- Broadleaf weeds in pasture use 2L/ha or 200ml/100L.

2L.....\$95
5L.....\$195
10L.....\$380
20L.....\$695

REPLICATE 150g/L PICLORAM and 225g/L CLOPYRALID BOTH AS MONOETHANOLAMINE SALTS

ACVM No P8050

For control of broadleaf weeds in fodder brassica crops and in Ratiata pine. (Approved Handler certificate required)

- Controls black nightshade, fathen, redroot (suppression), thornapple, woolly nightshade, fleabane, foxglove, fireweed, tree lucerne, wattles, gorse, broom.
- For brassicas apply at 350ml/Ha, by aerial, ground or CDA spray. Best results when applied to weeds at 2-8 leaf seedling stage.
- For Radiata pine use 2-2.5L Ha by air.

2L.....\$302
4L.....\$568

SUPERWETTER 100% ORGANOSILICONE WETTER-PENETRANT

Boost spray performance on woody & hard-to-kill species

- Assists penetration, especially into stressed and dusty plants.
- Reduces rain risk period, normally to under an hour.
- Boosts herbicide performance by aiding in translocation.
- Use at 100ml/100L, or 500ml-2L/ha depending on species.

2L.....\$74
5L.....\$164
20L.....\$603

SPRAYWETTER 100% NON-IONIC SURFACTANT WETTER-PENETRANT

Maximises herbicide performance in all situations

- Permits faster & more thorough penetration into plant.
- Reduces rain risk period, normally to under an hour.
- Use when herbicide directions do NOT specify a SuperWetter.
- Use at 100ml/100L, or 500ml-2L/ha depending on species.

5L.....\$72
10L.....\$128
20L.....\$245

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• Rainbow & Brown

Rainbow & Brown Ltd is a privately-owned NZ company. Our factory and office is in Rotorua. We're now in our 11th year of operation, and have been growing strongly every year. We have customers all over New Zealand, including farmers, horticulturalists, spray contractors, nurseries, commercial and private gardeners, and many other businesses. Our products are sold direct, with no retailers, agents or middlemen involved, which is why our prices are so attractive ... it is effectively the "wholesale" price, direct from the manufacturer.

• People

The directors of Rainbow & Brown are Paul & Chris Martin, who've both been involved in the NZ agricultural chemicals business for nearly 20 years. Both are actively involved in running and building the business. If you phone us, your most likely contact will be Rachael, our office manager. If you call in at the factory, you'll also meet Clinton, the factory manager.

• Ordering

You can order anytime by phone, online at rainbowbrown.co.nz, or by fax, e-mail or by letter. If you call on the freephone number, you may at times get an answering machine. That means we're already on the phone, or doing something else. Or it may be after office hours (see below). Please just leave your name and number, and we'll soon call you back. Or if we've already got all your details, just leave your order (*with your name and phone number*) on the machine.

• Delivery

We send your order within 24 hours. Delivery will usually take between 1 and 4 days. If it hasn't arrived after that time, *call us* immediately so we can track it down for you. Delivery of orders of 60 litres or less will normally be to your door, including rural delivery addresses. However, delivery of larger orders will be to the nearby freight depot or drop-off point we will arrange with you when you place your order.

• Factory & Office Hours

If you want to collect your order from our Rotorua factory, you're welcome. It's at 68A Tallyho Street. Open hours are 8.30 to 4.30, Monday to Friday (9.00 to 4.00 May-July).

• Payment

We send your invoice by mail, the day we send your order, so you'll know when it was shipped. Payment is due on 20th following month, and you can send a cheque or use direct payment to a/c No: 123155-0066374-00. The bank account number is also on both your invoice and your statement. We send statements out in the first week of each month.

• Referral Rewards

Word-of-mouth is the best advertising, so if you recommend us to someone who then becomes a new Rainbow & Brown customer and mentions your name, we'll thank you with a \$10 discount off each different product in your next order. So if you order four different items, you now get a \$40 discount (previously \$10).
SMALL PRINT: The discount doesn't apply to products on special.

• Website

Check out our website for full details and labels of all our products, plus Safety Data Sheets, and a small library of useful reference articles. You can also subscribe to the free Weed Files library. It's at www.rainbowbrown.co.nz

• Approved Handler Certificates (ERMA)

You do NOT need an Approved Handler certificate to purchase any current Rainbow & Brown product except for Cobber and Replicate herbicides. To apply MSF600, GrassMate, MCPA, Ranger or Triclo in a "wide dispersive manner" (i.e. by boom spray), or apply it commercially (i.e. you're a contractor), or over water (i.e. you're a dickhead), you DO need an Approved Handler certificate to apply it, but you DO NOT need a certificate to buy it. You need an Approved Handler certificate to buy Cobber and Replicate herbicides or to apply them in any circumstances.



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