



Docks (left) and fennel (right) can be eradicated with hormone weedkillers in the seedling stage only, as they develop high resistance with maturity. The twisting illustrated is the result of an application of weedkiller, and indicates resistance in the mature plant.

TABLE 1—HORMONE WEEDKILLERS AVAILABLE IN NEW ZEALAND

Type	Formulation	Trade name	Acid equivalent per gallon of liquid or pound of dust	Volatile or non-volatile	Form of weedkiller*	Type of weed
M.C.P.	Sodium salt	"Agroxone" ..	1.0	N.V.	Water	Annuals, herbaceous perennials and crops
		"Agroxone 3" ..	3.0	N.V.	Water	
"Phenoxyline 30" ..		3.0	N.V.	Water		
"Tuloxone 10" ..		1.0	N.V.	Water		
"Tuloxone 30" ..		3.0	N.V.	Water		
"Agroxone Powder" ..		.001	N.V.	Talc		
	†Amine			N.V.	Water	Resistant crops
	†Butyl ester			V.	Oil	
2,4-D	Sodium salt	"Phenoxone" ..	.82	N.V.	Water soluble powder	Annuals, herbaceous perennials and crops
		"Frenokone" ..	.75	N.V.		
		"SHWK" ..	.75	N.V.		
		"Economone" ..	.75	N.V.		
	Amine salt	"Stantox 90" ..	.75	N.V.	Water	Annuals, herbaceous perennials and resistant crops
		"Stantox 20" ..	2.0	N.V.		
		"Stantox 64" ..	4.0	N.V.		
		"Weedar 77" ..	4.8	N.V.		
	Ethyl ester	"Ataweed" ..	1.25	N.V.	Water	Annuals, semi-woody perennials, and perennials with waxy cuticles
		"Ataweed Concentrate" ..	4.0	N.V.		
		"Stantox P44" ..	4.0	V.		
		"Weedone 57 V." ..	3.6	V.		
"Ethone" ..		3.6	V.			
"Ataweed" ..		3.6	V.			
"D.40" ..		4.0	V.			
"Weedust 5" ..		.04	V.			
"Weedust 15" ..	.12	V.				
"Weedust Concentrate" ..	.25	V.	Talc			
Butoxy ethanol ester	"Weedone 57 N.V." ..	4.8	N.V.	Oil	As for ethyl ester	
†Polyethylene glycol ester	"A.C.P.-W.30" ..	4.5	N.V.	Water	For difficult-to-kill semi-herbaceous perennials	
	"Esteron 2,4-D" ..	4.0	N.V.	Water		
2,4-D 2,4,5-T 2,4-D 2,4,5-T 2,4-D 2,4,5-T	Butoxy ethanol esters	"Brushkiller 32" ..	1.6	N.V.	Oil	Not warranted for New Zealand weeds
		"Weedone Standard" ..	0.79			
	Ethyl ester	"Stantox T.45" ..	0.6	N.V.	Oil	
		"Stantox T.45" ..	0.3			
Butyl ester	"Stantox T.45" ..	1.9	V.	Oil		
	"Stantox T.45" ..	2.1				
2,4,5-T	Salt	Not manufactured to date				Treatment of new growth of blackberries
	Triethanol-amine salt	"Relionus 2,4,5-T" ..	3.5	N.V.	Water	
	Butyl ester	"Butoxone" ..	3.6	V.	Oil	Brush or scrub plants, for example, woody perennials and scramblers like blackberries
		"Stantox T.45S" ..	3.4	V.		
		"Summit 2,4,5-T" ..	3.6	V.		
		"Relionus 2,4,5-T" ..	3.6	V.		
		"Weedone Special V." ..	3.6	V.		
	Butoxy ethanol ester	"Weedone Special N.V." ..	3.6	N.V.	Oil	As for butyl esters
†Polyethylene glycol ester	"A.C.P.-W.52" ..	5.0	N.V.	Water	For difficult-to-kill herbaceous woody perennials, for example blackberry, especially re-growth, and first year canes	
	†Propylene glycol butyl ether ester	"Esteron 2,4,5-T" ..	4.0	N.V.		Water

* Form of weedkiller: Water = water-based; oil = oil-based; talc = in dust form with a talc filler.

† Not available on the market. Experimental quantities available or shortly available. New products, for example, the ethyl-amine salts of 2,4-D and 2,4,5-T, will also be shortly marketed. The straight butyl esters will also be changed to the isomeric esters of the butyl ester of 2,4,5-T. This type of ester is more easily emulsified.