

04-08

AgriLIFE EXTENSION

Texas A&M System

CHEMICAL WEED AND BRUSH CONTROL



SUGGESTIONS FOR RANGELAND

2008 UPDATE

This publication provides an update for some of the herbicide recommendations contained in B-1466.

The herbicide control recommendations contained in this update for a specific weed or brush species supercedes any information contained in the original publication.

Common, Chemical and Product Names of Herbicides*							
Herbicide common name	Chemical name	Product name	Active ingredient or acid equivalent				
Aminopyralid	2-pyridine carboxylic acid, 4-amino-3, 6-dichloro-2-pyrdine carboxylic acid, triisopropanolammonium salt	Milestone	2 lbs./gal.				
Aminopyralid 1:8, 2, 4-D	See aminopyralid and 2, 4-D	GrazonNext	3 lbs./gal.				
Clopyralid	3,6-dichloro-2-pyridinecarboxylic acid	Reclaim, Pyramid R&P, Clopyralid 3	3 lbs./gal.				
2,4-D	(2,4-dichlorophenoxy) acetic acid	Weedar 64, Formula 40, Hi-Dep, Weedone LV4, Esteron 99 and others	amine salts and esters of variable concentration				
Dicamba	3,6-dichloro-2-methoxybenzoic acid	Banvel, Clarity, Vision	4 lbs./gal.				
Dicamba:2,4-D(1:3)	See dicamba and 2,4-D	Weedmaster, Banvel + 2,4-D, RangeStar, Outlaw	4 lbs./gal.				
Diesel fuel oil or kerosene	refined petroleum fractions	Several manufacturers					
Fluroxypyr	Fluroxypyr I-methylheptyl ester: ((4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy)acetic acid		1.5 lbs./gal.				
Glyphosate	Glyphosate N-(phosphonomethyl) glycine Se		isopropylamine salt*, concentration varies depending on the product				
Hexazinone	xazinone 3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4(IH, 3H)-dione Velpar L, P		2 lbs./gal. (Velpar L) 75% (Pronone Power Pellet)				
Imazapyr	2-[4,5-dihydro-4-methyl-4-(I-methylethy)-5-oxo-IH-imidazol-2-yl]-3-pyridinecarboxylic acid	Arsenal, Habitat**	2 lbs./gal.				
Metsulfuron methyl	methyl 2[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino] sulfonyl] benzoate	Escort, Clean Pasture, MSM 60DF	60%				
Metsulfuron:Chlorosulfuron 3:1	See Metsulfuron methyl + 2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl] benzenesulfonamide	Cimarron Plus	48% metsulfuron I 5% Chlorosulfuron				
Metsulfuron:Chlorosulfuron 1:1	See metsulfuron: Chlorosulfuron	Cimarron X-Tra	30% Metsulfuron 37.5% Chlorosulfuron				
Metsulfuron methyl Dicamba:2,4-D(1:3)	See metsulfuron methyl, dicamba and 2,4-D	Cimarron Max	60% (Part A) 3.87 lbs./gal. (Part B)				
Picloram	4-amino-3,5,6-trichloro-2-pyridinecarboxylic acid	Tordon 22K, Triumph 22K, Picloram 22K	2 lbs./gal.				
Picloram:Fluroxypyr (1:1)	See picloram and Fluroxypyr	Surmount	1.34 lbs./gal.				
Picloram:2,4-D(1:4)	See Picloram and 2,4-D	Grazon P+D, Gunslinger, Picloram + D	2.5 lbs./gal.				
Tebuthiuron	N-[5-(1,1-dimethylethy)-1,3,4-thiadiazol-2-yl}-N-N'-dimethylurea Sp		20% (Spike 20P) 80% (Spike 80 DF)				
Triclopyr	{(3,5,6-trichloro-2-pyridinyl)oxy}acetic acid Clear Pa		0.75 lbs./gal. (Pathfinder II) 4 lbs./gal. (all others)				
Triclopyr:Fluroxypr (3:1)	See triclopyr and I-methylhepty ester:((4-amino-3,5-dichloro-6-fluoropyridin-2-yl)oxy)acetic acid	PastureGard	2.0 lbs./gal.				
Triclopyr:2,4-D(1:2)	See triclopyr and 2,4-D	Crossbow	3 lbs./gal.				

^{*}Herbicides have been identified by the accepted Weed Science Society of America common name, and when practical, one or more product names.

^{**}Aquatic label

Items in gray boxes are recent changes approved by the Rangeland Herbicide Use Committee.

Page	Weed Controlled	Herbicide (common and (ac		e quantity rate in parenthesis)	Spray volume (per acre for broadcast, as	Time to apply	Remarks
		chemical names – page 4)	Broadcast rate per acre	Individual plant/ spot treatment	described for individual plant)		
6	African rue	Velpar L		VH ^{**} 2 ml/plant	Use an exact delivery handgun to apply undiluted herbicide to soil surface at the edge of the plant canopy.	Spring or summer.	Do not use on heavy clay or caliche soils.
		Pronone Power Pellets		l pellet/plant			
		Spike 20 P	H 7.5 lbs (1.5 lbs.)				
		Arsenal	H I qt. (0.5 lbs.)	VH 0.5%	10 to 25 gal./ac. for ground broadcast. Thoroughly wet foliage for individual plant treatment. Add 1 to 2 qts. surfactant per 100 gal. water.	Late September through October (to first frost).	Applications should be made to fall regrowth that is in good growing conditions. Recommend using individual plant treatment when growing with desirable vegetation to reduce non-target damage. Arsenal is a non-selective herbicide and will kill or damage desirable vegetation if sprayed.
6	Berlander lobelia, bitter sneezeweed, (annual or common), buffalobur,	2,4-D amine or low volatile ester	VH I pt. to I qt. (I/2 to I lb.)	VH 1% (4 lbs./gal product)		conditions. Spray thistles in	Use 2,4-D amine in areas with 25 inches of rainfall or more. Use 2,4-D low volatile ester in drier areas where no susceptible crops are nearby.
	camphorweed, cocklebur,		4 lbs./gal. product			rosette stage.	5 W . 15 . 1 . 2451
	croton, horehound, marshelder (sumpweed or sulfaweed), plantain	Weedmaster	VH I pt. to I qt. (I/2 to I lb.)	VH I%	qts. surfactant per 100 gals. of water.		For Western bitterweed control use 2,4-D low volatile ester or amine at 1 qt/acre before plants flower and temperature (above 72 deg. F.) and soil
	(tallowweed), prairie	Tank mix Banvel with	VH	VH			moisture favors plant growth. When three fourths
	gerardia (see remarks),	2,4-D amine or low	¼ to ½ pt.	1/4 % Banvel			of plants are blooming and/or temperature is less than 60 deg. F., use Weedmaster, 2,4-D plus Banvel, Grazon P+D, GrazonNext or 2,4-D plus Tordon 22K For prairie gerardia control, when plants are 4 to 6 inches high, use 1 ½ qts./acre of 2,4-D or the low rates of Weedmaster, Banvel plus 2,4-D, Grazon P+D, or Tordon 22K + 2,4-D. When plants are 6 to
	ragweed, smartweed, sunflower, thistles, Western bitterweed	volatile ester	(1/8 to ¼ lb.) Banvel +	+ 34% 2,4-D			
	(see remarks), Western ragweed, wild carrot and		³ / ₄ to I ½ pts. (3/8 to ³ / ₄ lb.) 2,4-D	(4 lbs./gal. product)			
	others	Grazon P+D	VH I pt. to I ½ qts. (0.3 to 0.9 lb.)	VH I%			
		Tank mix Tordon 22K	VH	VH			10 inches high, use the high rates, but spray before flowering.
		with 2,4-D or low volatile ester	¼ to ¾ qts. (1/16 to 3/16 lb.) Tordon 22K	// % Tordon 22K + // % 2,4-D			nowering.
			/ ₂ to 1 ½ pts. (1/4 to ¾ lb.) 2,4-D	(4 lbs./gal. product)			
		Cimarron Max	VH** Rate I to Rate 2				
		Surmount	VH 1.5 pt to 1 qt. (0.25 to 0.33 lb.)	VH I%			Use high end of rate range for camphorweed, marshelder and smartweed.
		PastureGard	H I to I.5 qt. (0.5 to 0.75 lb.)	VH I%			Use high end of rate range for camphorweed, marshelder and smartweed. PastureGard efficacy on smartweed is marginal.
		GrazonNext	VH 2 pts. (0.75 lb.)				
		Milestone	VH 4 ozs. (0.125 lb)				Milestone provides excellent control of thistles and annual weed species in general, although at this time efficacy of this herbicide is not confirmed for all of the species in this list.

^{**}Treatment control ratings: VH - Very High; H - High; M - Moderate; L - Low.

Page	Weed Controlled	Herbicide Herbicide quantity (common and (active ingredient rate in parenthesis)		Spray volume (per acre for broadcast, as	Time to apply	Remarks	
		chemical names – page 4)	Broadcast rate per acre	Individual plant/ spot treatment	described for individual plant)		
	Broomweed (annual or common), plantain	Escort or Cimarron	VH 0.1 oz.	spot treatment	2 to 4 gals. water for aerial spray; 10 to 25 gals. water for ground broadcast	Spring, weeds less than 4 inches tall	
	(tallow weed), wild carrot	Cimarron Plus	VH 0.125 oz.		application. Add I to 2 qts. surfactant per 100 gal. of water.		
		Cimarron X-tra	VH 0.2 oz.				
	Broom snakeweed (perennial broomweed)	Escort or Cimarron	VH 0.6 oz.			Optimum time is in the fall, but may be applied in the	
	(continued)	Cimarron Plus	VH 0.75 oz.		application. Add I to 2 qts. of surfactant per 100 gals. of water.	spring.	
	,	Cimarron X-tra	VH 1.2 oz.				
		Cimarron Max	H to VH Rate I to Rate 2				
		Spike 20P	VH 3.75 lbs. of pellets (3/4 lb.)	VH 1/6 oz. of pellets (1/30 oz.) per 100 sq. ft.		Any time – optimum period is Oct. I to April I, except in the Trans-Pecos where optimum period is May I to July I.	Use only on sand, loamy sand, sandy loam, loam, silt loam, silt or sandy clay loam soils.
10	Lespedeza	Remedy	VH I to 2 pts. (1/2 to 1 lb.)		Ground broadcast 20 to 20 gals. per acre with 1 to 2 qts. Of surfactant per 100 gals. of water.	good growing conditions.	Plants need to be 12 to 18 inches tall before spraying. Use the higher rate if plants are large, approaching maturity, or if the infestation level is high.
		Escort or Cimarron	H 0.5 oz.				Begin application at flower bud initiation through full bloom.
		Cimarron Plus	H 0.7 oz.				
		Cimarron X-tra	H 1.0 oz.				
		Cimarron Max	H Rate 2				
		Surmount	VH 1.5 to 2 pt. (0.25 to 0.33 lb.)	VH I%			
		PastureGard	VH 1.5 to 2 pt. (0.38 to 0.5 lb.)	VH 0.75%			

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Page	Weed Controlled	Herbicide (common and		e quantity rate in parenthesis)	Spray volume (per acre for broadcast, as described for individual plant)	Time to apply	Remarks
		chemical names – page 4)	Broadcast rate per acre	Individual plant/ spot treatment			
- 11	Rayless goldenrod	Escort or Cimarron	VH		2 to 4 gals. water for aerial spray; 10	Fall.	
	(jimmyweed)		0.75 oz		to 25 gals. water for ground broadcast		
		Cimarron Plus	VH		application. Add I to 2 qts. surfactant		
			1.0 oz.		per 100 gal of water.		
		Cimarron X-tra	VH				
			1.5 oz.		Thoroughly wet foliage for individual		
		Surmount	VH	VH	plant treatment. Add I to 2 qts.		
			6 pt. (1.0 lb.)	2 %	surfactant per 100 gal. water.		
		Tordon 22K	VH	VH			
			I qt. (I/2 lb.)	1%			
- 11	Threadleaf Groundsel	Escort or Cimarron	VH		2 to 4 gals. water for aerial spray; 10		
			0.4 oz.		to 25 gals water for ground broadcast		
		Cimarron Plus	VH		application. Add I to 2 qts. surfactant		
			0.5 oz.		per 100 gal of water.		
		Cimarron X-tra	VH				
			0.8 oz.				
		Cimarron Max	VH				
			Rate 2				
12	Upright Prairie-	Escort or Cimarron	VH		2 to 4 gals. water for aerial spray; 10	Spring, before flower stalk	
	coneflower		0.2 oz.		to 25 gals water for ground broadcast	development.	
		Cimarron Plus	VH 0.25 oz.		application. Add I to 2 qts. surfactant per I00 gal of water.		
		Cimarron X-tra	VH 0.4				
13	Baccharis (dryland	2,4-D low volatile ester	Н	H	4 to 5 gals. of water for aerial spray.	Spring, when leaves are fully	
	willow, Roosevelt willow,		3 pts. To 3 qts.	1%	15 to 20 gals. water for ground	expanded and dark green	
	seep willow or willow		(1.5 to 3 lbs.)		broadcast. For individual plant	in color.	
	baccharis)		4 lb./gal product		treatment thoroughly wet the entire		
					foliage, stems and trunks. Add I to 2		
		C D.D			qts. surfactant per 100 gals. water.		
		Grazon P+D		H 1%	For individual plant treatment thoroughly wet the entire foliage,		
		Weedmaster		H	stems and trunks. Add I to 2 qts.		
		vveedmaster		H 1%	surfactant per 100 gals. water.		
		Dama du		VH	Surfactant per 100 gais, water.		
		Remedy		I%			
		PastureGard		VH	-		
		rastureGard		I%			
		Surmount		VH			
		Surmount		I%			
				1 /0			

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Woody Plants

Page	Weed Controlled	Herbicide (common and chemical names – page 4)	Herbicide (active ingredient i Broadcast rate per acre	e quantity rate in parenthesis) Individual plant/ spot treatment	Spray volume (per acre for broadcast, as described for individual plant)	Time to apply	Remarks
22	Mesquite (suppression and weed control)	2,4-D amine or low volatile ester Grazon P+D Weedmaster Cimarron Max Tordon 22K + 2,4-D amine or low volatile ester. Banvel + 2,4-D amine or low volatile ester.	L 2 to 4 qts. (2 to 4 lbs.) L I to I.5 qts. (0.6 to 0.9 lbs.) L I to I.5 qts. (I to I.5 lbs.) L Rate I to Rate 2 L 0.5 to 0.75 pt.(I/8 to 3/16 lb.) Tordon 22K + I to I.5 qts. (I to I.5 lbs.)/gal. product L 0.5 to 0.75 pt.(I/4 to 3/8 lb.) Banvel + 3/4 to I 1/8 qts. (3/4 to I 1/8 lbs.) 2,4-D, 4 lbs./gal. product L I pt. to I qt. (0.5 lb. to I Ib.)	M 2% (4 lbs./gal. product) M I%	For aerial applications suggested total spray volume is 4 gal./acre. Use oil-in-water emulsion (1 to 5 oil to water ratio considered optimum), or water plus surfactant, crop oil or methylated seed oil. For ground broadcast applications the suggested total spray volume is 10 to 25 gal./acre. Use oil-in-water emulsion (1 to 5 oil to water ratio considered optimum), or water plus surfactant, crop oil or methylated seed oil. Thoroughly wet foliage for individual plant treatments. Add 1 to 2 qts. surfactant per 100 gals. of water or an oil-in-water emulsion (5% diesel + 95% water).	Late spring to mid-summer with mature leaves (dark green color). Optimum period of application begins when soil temperature at a depth of 12 inches reaches 75 deg. F and continues for 45 days. If treatment is applied prior to optimum soil temperatures, efficacy will be decreased and multiple applications over a period of years may be necessary to maintain less than 10% canopy.	Treatments will control many weeds. When using oil-in-water emulsion use emulsifier. Use of a treatment with a low control rating may result in multi-stem growth that may be more difficult to control in the future.
		Banvel	L I pt. to I qt. (0.5 lb. to I lb.)	M I%			

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Page	Weed Controlled	Herbicide (common and	Herbicide (active ingredient r		Spray volume (per acre for broadcast, as	Time to apply	Remarks
		chemical names – page 4)	Broadcast rate per acre	Individual plant/ spot treatment	described for individual plant)		
23	Mesquite	Remedy		VH 2% in diesel fuel oil	Apply to the base of the trunk from 12 to 18 inches above the soil surface. Apply until solution puddles on soil surface.	Anytime soil is dry and pulled away from the trunk.	
		Reclaim	M to H 1/3 qt. to 2/3 qt. (1/4 to ½ lb.)	VH I%		Late spring to mid-summer with mature leaves (dark green color). Optimum	Use I pt./ac.Tordon 22K plus ½ pt./ac. Remedy, ½ pt./ac. Banvel plus ½ pt./ac. Remedy, I pt./ac.Tordon 22K plus ½ pt./ac. Banvel, I pt./ac.
		Remedy + Tordon 22K	M ½ to I pt. (I/4 to ½ Ib.) Remedy + I to 2 pts. (¼ to ½ lb.) Tordon 22K	M to H ½% Remedy + ½% Tordon 22K	ratio considered optimum), or water plus surfactant, crop oil or methylated seed oil. For ground broadcast applications	period of application begins when soil temperature at a depth of 12 inches reaches 75 deg. F and continues for 45 days thereafter. When Reclaim is used alone or in a tank mix the period should continue for 60 days. For optimum root kill do not spray if white flowers or bean elongation are observable, if over 25% of the leaf canopy is damaged due to insects, disease or hail, if soil temperatures are less than 75 deg. F. I ft. deep, or if new vegetative growth is present due to recent rains.	ac. Reclaim only in West Texas. Banvel and Banvel mixtures have been more effective in West Texas
		Remedy + Banvel	L ½ to I pt. (1/4 to ½ Ib.) Remedy + ½ to I pt. (1/4 to ½ Ib.) Banvel	M ½% Remedy + ½% Banvel	the suggested total spray volume is 10 to 25 gal./acre. Use oil-in-water emulsion (1 to 5 oil to water ratio considered optimum), or water plus surfactant, crop oil or methylated seed oil. Thoroughly wet foliage for individual plant treatments. Add 1 to 2 qts. surfactant per 100 gals. of water or an oil-in-water emulsion (5% diesel + 95% water).		
		Remedy + Reclaim	M to H // to I pt. (1/8 to ½ lb.) Remedy + I/3 to 2/3 pt. (1/8 to ¼ lb.) Reclaim	VH ½% Remedy + ½% Reclaim			
	Tordon 22K + Banv	Tordon 22K + Banvel	M I to 2 pts. (1/4 to ½ Ib.) Tordon 22K + ½ to I pt. (1/4 to ½ lb.) Banvel	H ½% Remedy + ½% Banvel			of a treatment with a low-control rating may result in a multi-stem growth form that may be more difficult to control in the future.
*** T		Tordon 22K + Reclaim	M to H I to 2 pts. (1/4 to ½ Ib.) Tordon 22K + 1/3 to 2/3 qt.(1/4 to ½ lb.) Reclaim	VH ½% Tordon 22K + ½% Reclaim			

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Page	Weed Controlled	Herbicide	Herbicide		Spray volume	Time to apply	Remarks
		(common and chemical names –	Broadcast rate	ate in parenthesis) Individual plant/	(per acre for broadcast, as described for individual plant)		
		page 4)	per acre	spot treatment	described for individual plant)		
26	Pricklypear, tasajillo	Tordon 22K	Н	VH	For aerial applications suggested total	Anytime; best results	Use emulsifier when adding diesel fuel oil to
20	Trickly pear, casajino	IOI doll 22K	I pt. to I qt. (I/4 lb. to	1%	spray volume is 2 to 4 gal./acre. Use	have been obtained with	water. Use I pt./ac.Tordon 22K only on High
			½ lb.)	170	oil-in-water emulsion (1 to 5 oil to	late summer through fall	Plains where no brush overstory is present. Late
		Surmount	Н	VH	water ratio considered optimum),	applications.	summer or fall applications, especially with Vista,
		out in out it	4 pt. (0.67 lb.)	1%	or water plus surfactant, crop oil or		will provide best results, but aerially spray in the
		Grazon P+D	Н	VH	methylated seed oil.		winter or early spring if heavy overstory of woody
			I gal. (2.5 lbs.)	2%			plants is present or if damage to live oak is a
		Vista		VH	For ground broadcast applications		concern.
				1%	the suggested total spray volume is		
					10 to 25 gal./acre. Use oil-in-water		
					emulsion (I to 5 oil to water ratio		
					considered optimum), or water plus surfactant, crop oil or methylated		
					seed oil.		
					seed oii.		
					Thoroughly wet plants for individual		
					plant treatment adding I to 2 qts.		
					surfactant per 100 gals. of spray mix.		
		Gramoxone Extra	These two treatments a	re deleted from B-1466.			
		Tank mix Tordon 22K					
		with Gramoxone Extra					
29	Saltcedar	Arsenal	VH	VH	Minimum 10 gals./acre for aerial or	July through September or	When exposure to aquatic environments is
			2 qts. (1 lb.)			until leaves begin to turn	possible use aquatic labels of Arsenal and Roundup
		Arsenal + Roundup		* * * *		yellow.	(
			I pt. (1/2 lb.) Roundup		per 100 gals. water.		
		Remedy		* * * *		, 0	
				25% in diesel fuel oil		leaves have mature leaves.	
							with X1 orifice.
		Tank miss Amanalish	This recommendation is	deleted and mayed to			
			This recommendation is	deleted, and moved to t	ne remarks section.		
29	Saltcedar	Tank mix Tordon 22K with Gramoxone Extra Arsenal	VH	VH 1% VH ½% Arsenal + ½% Roundup VH 25% in diesel fuel oil	ground broadcast sprays. Thoroughly wet foliage for individual plant treatment. Add I to 2 qts. surfactant per I00 gals. water. Apply to lower I2 to I8 inches of trunk to wet the trunk; do not spray to point of runoff. Apply completely around the trunk.	, , ,	

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Page	Weed Controlled	Herbicide	Herbicide quantity (active ingredient rate in parenthesis)		Spray volume (per acre for broadcast, as	Time to apply	Remarks
		(common and chemical names – page 4)	Broadcast rate per acre	Individual plant/ spot treatment	described for individual plant)		
30	Yucca	Remedy		H 2% in diesel fuel oil	Spray the center of each individual whorl of leaves to the point of runoff.	Anytime	Complete coverage of leaves is not necessary. The crown of each plant must be thoroughly wetted with the herbicide mixture.
				H 2% in 1:5 diesel fuel oil:water emulsion		May through September.	Use emulsifier and agitate to maintain emulsion. Complete coverage of leaves is not necessary. The crown of each plant must be thoroughly wetted with the herbicide mixture.
				VH I5% in diesel fuel oil	Use an adjustable cone nozzle (XI orifice) and spray a 2 second burst into each whorl.	Spring and summer.	Direct spray into the center of each whorl.
				H Undiluted 2 to 4 ml./plant whorl	Use an exact delivery handgun set at 2 or 4 ml. per whorl dose.		
		Pathfinder II		VH Undiluted	Use an adjustable cone nozzle (XI orifice) and spray a 2-second burst into each whorl.		
		Cimarron Max +	H Rate 2 Cimarron Max		Crop oil concentrate, modified seed oil or modified seed oil/organosilicone	Spring through fall prior to frost.	A second follow-up application of Cimarron Max at Rate I or Rate 2 plus 2,4-D low volatile ester
		2, 4-D low volatile ester	+ I pt. to I.5 pts. 2,4-D (4 lb a.i./gal. product).		are the preferred adjuvants. For aerial applications a minimum of 4 gals./ac. total spray volume is recommended.		at 0.5 to 0.75 lbs. a.i./ac. within 2 years of the initial application may be required to control yucca seedlings and regrowth from rootstocks.
		Cimarron Plus	H 0.675 oz. Cimarron				
		2,4-D low volatile ester	0.673 6z. Cimarron Plus + I qt 2,4-D				
			(4 lb a.i./gal product)				
New	Burrobrush	Tordon 22K		VH I%	Thoroughly wet foliage for individual plant treatment.	April through July.	
		Grazon P+D		VH 2%			

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Revision