

Dandelions control with preplant herbicide applications, Kindred, ND, 2010. (Stachler) Research plots 11 feet wide and 40 feet long were established in a cooperators' field without a crop planted. Treatments were applied 4:00 pm May 21 when the air temperature was 76F, relative humidity was 39%, six inch soil temperature was 60F, wind velocity was 12 mph, cloud cover was 10% and soil moisture was good. Two sizes of dandelion were present, those having 3-14 leaves (majority had 6 leaves) with 2 to 16 inches in diameter (majority 9 inches), and a density of 18 plants per M². The other size of dandelion had 7-70 flowers (majority had 35 flowers) with 18 to 24 inches in diameter (majority 21 inches), and had a density of 5 plants per M². Common lambsquarters was 2-3 inches tall (average height was 2.33 inches) with a density of 3 plants per M². Biennial wormwood was 1-7 inches tall (average height was 3 inches) with a density of 1 plant per M². All treatments were applied in 17 gpa water at 40 psi through XR8002 nozzles to the center 6.67 feet of each plot. Common dandelion, common lambsquarters and biennial wormwood control were evaluated June 5 and June 30. All evaluations are a visual estimate of percent weed control in the treated plot compared to the adjacent untreated strips and plots.

Summary: Express mixed with Roundup PowerMAX and/or Latigo (2,4-D formulation) most effectively controlled dandelion of the replicated treatments on June 30th. Glyphosate and 2,4-D formulations ineffectively controlled dandelion at this location. Of the single-strip treatments, Express plus Ignite controlled the most dandelion. Dandelion is difficult to control. The use of Express in pre-plant applications should improve dandelion control compared to glyphosate and/or 2,4-D.

Lambsquarters and biennial wormwood were only effectively controlled on June 5th with treatments containing glyphosate at 1.5 lb ae/A or greater or Express.

Experiment continued on next page.

Table. Dandelions and preplant applications, Kindred, ND, 2010. (Stachler)

Treatment ¹	Rate product/A	June 5			June 30		
		Dali Cntl	Colq Cntl	Biww Cntl	Dali Cntl	Colq Cntl	Biww Cntl
		----- % -----					
Weedone LV4	8 oz	19	50	43	13	76	38
Weedone LV4	12 oz	27	53	53	24	79	53
Weedone LV4	16 oz	26	54	57	34	94	67
Outlaw	24 oz	31	60	65	40	91	83
Latigo	18 oz	22	61	61	27	95	59
Latigo	24 oz	27	63	64	40	95	80
RUPowerMAX+AMS	0.375 lb ae/A + 2.5% v/v	29	44	36	13	36	25
RUPowerMAX+AMS	0.75 lb ae/A + 2.5% v/v	36	56	67	36	44	60
RUPowerMAX+AMS	1.5 lb ae/A + 2.5% v/v	61	95	98	62	79	74
RUPowerMAX+AMS	2.25 lb ae/A + 2.5% v/v	67	99	98	68	74	83
RUPowerMAX+Outlaw+AMS	0.375 lb ae/A + 16 oz + 2.5% v/v	30	65	67	36	85	75
RUPowerMAX+Latigo+AMS	0.375 lb ae/A + 12 oz + 2.5% v/v	31	63	64	40	84	69
RUPowerMAX+Latigo+AMS	0.375 lb ae/A + 16 oz + 2.5% v/v	33	63	70	48	92	86
RUPowerMAX+Latigo+AMS	0.75 lb ae/A + 12 oz + 2.5% v/v	44	77	76	48	95	81
RUPowerMAX+Weedone LV4+AMS	0.75 lb ae/A + 16 oz + 2.5% v/v	33	70	73	45	92	86
RUPowerMAX+Latigo+AMS	1.5 lb ae/A + 12 oz + 2.5% v/v	40	90	82	60	87	82
Express SG +RUPowerMAX+Premier 90+AMS	0.5 oz + 0.75 lb ae/A + 0.25% v/v + 2.5% v/v	46	95	93	90	87	87
Express SG +RUPowerMAX+Latigo+AMS	0.5 oz + 0.75 lb ae/A + 12 oz + 2.5% v/v	46	92	88	86	92	83
LSD (5%)		9	10	10	10	19	12
<u>Extra treatments not replicated:</u>							
Gramoxone Inteon+Express SG + Dimetric+Soy-Stik	3 pt + 0.5 oz + 5.33 oz + 1.25 pt	68	98	95	60	70	75
Ignite 280+AMS	29 oz + 0.89 gallon	75	97	97	35	35	60
Express SG+Ignite 280+Soy-Stik+AMS	0.5 oz + 29 oz + 1.25 pt + 0.89 gal	80	98	90	88	88	68
RUPowerMAX+Stinger+AMS	0.75 lb ae/A + 3 oz + 2.5% v/v	40	70	75	50	60	78
UpBeet+Destiny HC+RUPowerMAX + AMS	0.5 oz ai/A + 1% v/v + 0.75 lb ae/A + 2.5% v/v	50	70	88	55	75	65

¹AMS=N-Pak AMS (liquid ammonium sulfate from Winfield Solutions), RUPowerMAX=Roundup PowerMAX, Premier 90=non-ionic surfactant from West Central, Soy-Stik=methylated seed oil from West Central, Destiny HC=high surfactant methylated seed oil from Winfield Solutions.