

2005 Mine Reclamation for Wildlife Summit

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Best Management Practices for Creating an Elk Landscape









Proper No-till Seed Bed



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No-till Results



Purdue Wildlife Area 1YAT



No-till NWSG into Good Soil Structure



Control With 22 Ounce Rate of Journey



Treated

Untreated

Quality Native Grass Seedstock is a Must !!



Spray Regrowth





Journey
herbicide



- ✓ **Combination of glyphosate and imazapic**
- ✓ **New haying and grazing verbiage to be added**
- ✓ **Provides residual for straight glyphosate users**
- ✓ **Provides applicators with an alternative to Plateau applications on non-governmental properties.**

Recommended Herbicide Mix



- Use 10.7 to 32 ounces* Journey per acre
- + 16-32 oz. of glyphosate per acre
 - + 1 quart of methylated seed oil per acre
 - + 1 quart 28-0-0 liquid nitrogen fertilizer per acre or ammonium sulfate @17 pounds per 100 gallons of water.

Use a 10 to 25 gallon per acre spray rate.

*Depending upon seed mix to be planted. See Journey label for specific recommendations.





Journey = Plateau + glyphosate					
Amount of Product			Amount of Active Ingredient		
Journey Rate product/A)	Plateau equivalent product/A)	Roundup Pro equivalent	Imazapic acid (lb)	Glyphosate isopropylamine salt (lb)	Glyphosate acid (lb)
4.0	1.5	2.0	0.023	0.063	0.047
5.3	2.0	2.7	0.031	0.084	0.063
8.0	3.0	4.0	0.047	0.125	0.094
10.0	3.8	5.0	0.059	0.156	0.117
10.7	4.0	5.3	0.063	0.166	0.125
12.0	4.5	6.0	0.070	0.188	0.141
16.0	6.0	8.0	0.094	0.250	0.188
20.0	7.5	10.0	0.117	0.313	0.234
21.3	8.0	10.7	0.125	0.334	0.250
24.0	9.0	12.0	0.141	0.375	0.281
26.7	10.0	13.4	0.156	0.419	0.313
28.0	10.5	14.0	0.164	0.438	0.328
32.0	12.0	16.0	0.188	0.500	0.375



Glyphosate vs Plateau for Tall Fescue Eradication

Percent Tall Fescue Remaining Following Treatment

	Glyphosate	Plateau
Spray rate per acre	2 qts.	12 ozs. + MSO + 1 qt. 28%
Ave. across 10 sites	5.7%	1.6%
Comments	Tall fescue eliminated at 5 of 10 sites	Tall fescue eliminated at 8 of 10 sites

Applications were evaluated at 5 MAT.

Source: Barnes, T.G. and Washburn, Brian W., Eradicating Tall Fescue with Herbicide, Quail Unlimited Magazine

Native Grass Stand 14 Weeks After Planting



Native Grass/Forb Planting in First Growing Season



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Recommended Journey Rates for Weed Control

- **Rates vary by geography, weed pressure and soil type.**
 - 10.7 oz/a maximum rate when planting with forbs or legumes.
 - 10.7 – 32 oz/a in central & eastern corn belt and southeast.
 - 5.5 – 10.7 oz/a in western and plains states.
 - Use 5.5 oz rate on sandy, high pH soils in cool dry sites.
 - Use 22 – 32 oz/a in warmer, higher rainfall areas.
- **General rule of thumb:**
 - Lighter soil, lower rainfall, low weed pressure – Lower rate.
 - Heavy soil, higher rainfall, high weed pressure – Higher rate.

**Consult the Journey label for specific
recommendations.**

In Summary, for Best Results



- **Plant in the spring/early summer with soil temperature above 65**
- **Use only high quality seed**
- **Plant into good soil structure**
- **To kill cool season grass sod:**
 - Spring burn
 - Apply Journey after 4 inches or more regrowth of vegetation
- **When no-till planting, remove residual accumulated litter, burning is best**
- **Pray for Rain**





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