

A vibrant forest landscape with evergreen trees and pink flowers in the foreground. The scene is set against a backdrop of rolling green hills and a clear sky.

Leaders In An Evolving Industry

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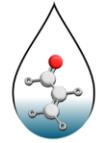


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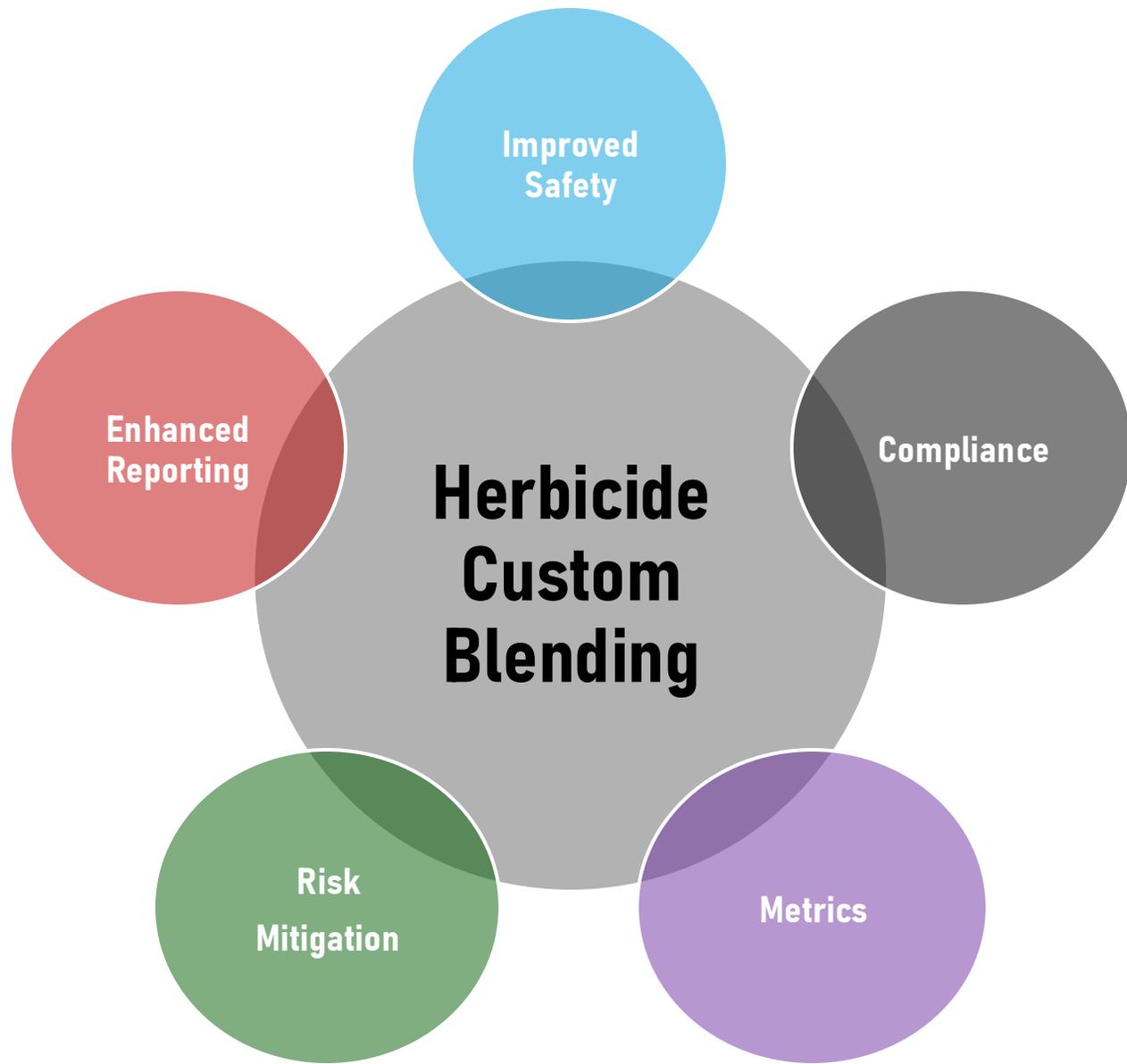
AG VISION^{FF}



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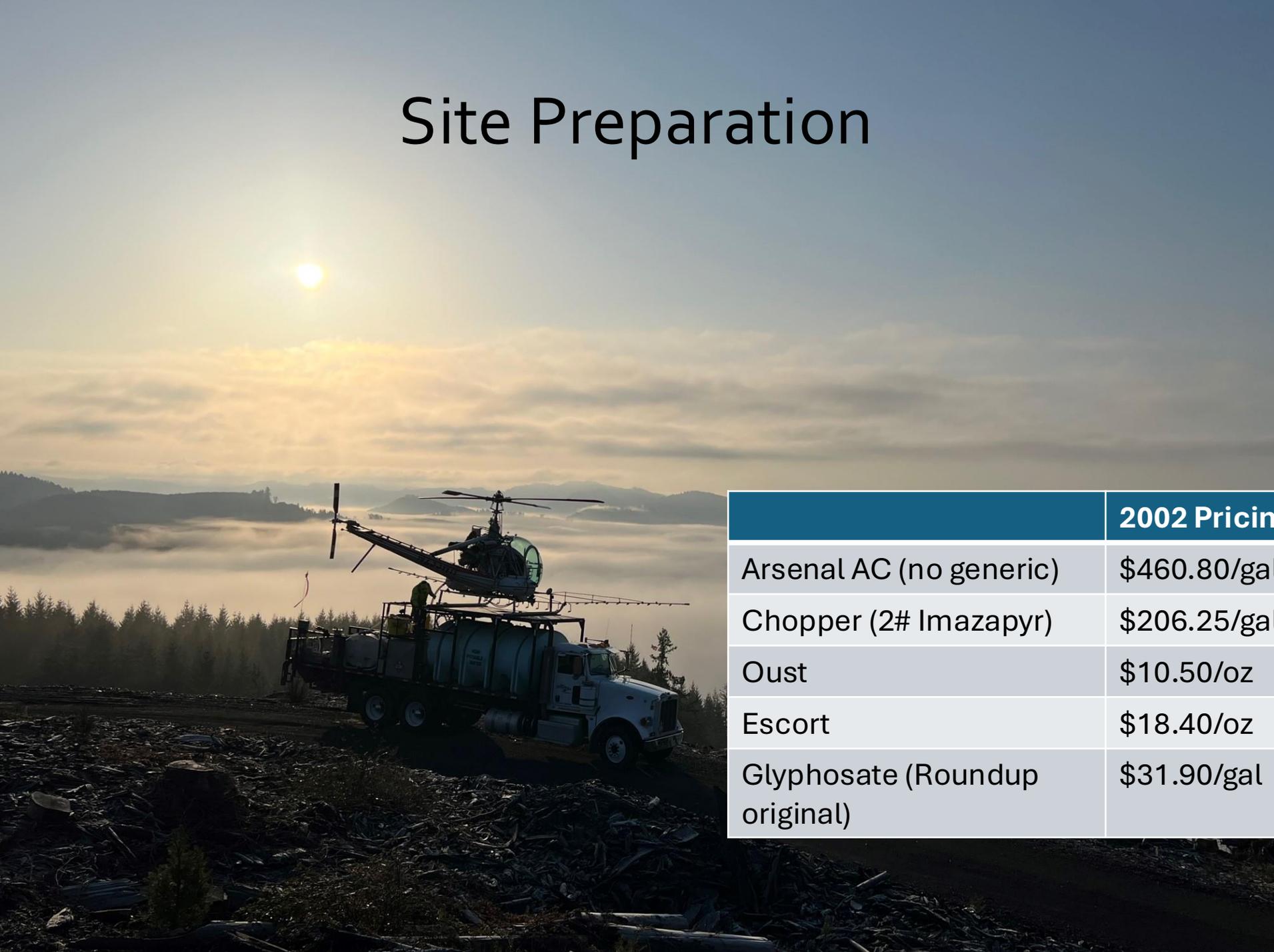


Best Forestry Herbicide Prescriptions: Efficacy & Value



2025 PNW Forest Vegetation
Management Conference
December 2-4, 2025
Portland, OR

Site Preparation



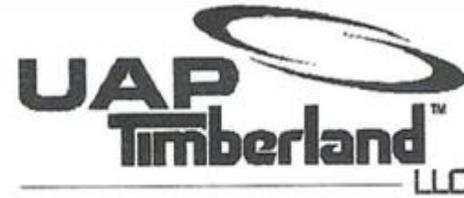
	2002 Pricing	Approx. 2025 Pricing
Arsenal AC (no generic)	\$460.80/gal	\$125/gal
Chopper (2# Imazapyr)	\$206.25/gal	\$70/gal
Oust	\$10.50/oz	\$2.50/oz
Escort	\$18.40/oz	\$2.40/oz
Glyphosate (Roundup original)	\$31.90/gal	\$20/gal

Benefits of a Mature Market:

- ✓ Prices have Plummeted Over last 20 Years – Largely Thanks to Generic Competition.
- ✓ Dialing rates to nearest ounce with different prescriptions for every unit no longer as worthwhile an exercise as once was...

Time and Older Chemistries Are Our Friends!

- ✓ Multiple generic offerings currently available for most post-patent actives – use the *cheapest* one available, all will perform.
- ✓ This unit at Gillespie Corners (now owned by GLT) had Chemical cost of \$115.36 in early 2000's – Under \$50 today!



2002 Forestry Price List

Product/ Form	Available Size(s)	Unit	Price	Comments
Conifer-90	25	lbs.	\$2.50	
Arsenal AC	2.5	gal	\$460.80	
Chopper	2.5	gal	\$206.25	
Chopper	30	gal	\$206.25	
Escort	8/16	oz	\$18.40	
Garlon 4	2.5	gal	\$82.00	
Garlon 4	30	gal	\$82.00	
Oust (3#)	48	oz	\$10.50	
Clean Crop LV-6	2.5	gal	\$19.30	
Clean Crop LV-6 (non-closed)	30	gal	\$19.00	
Roundup Original	2.5	gal	\$31.90	
Roundup Original	30	gal	\$29.90	
Mirage	2.5	gal	\$25.00	Generic 4# Glyphosate
Mirage	30	gal	\$25.00	Generic 4# Glyphosate
Transline	2.5	gal	\$298.00	
Velpar DF	4	lbs.	\$19.40	
Velpar DF	20	lbs.	\$19.40	
Velpar L	2.5	gal	\$52.00	
Velpar L	15	gal	\$52.00	
Activator-90 Surfactant	2.5	gal	\$13.50	Non-ionic surfactant.
Dye, Ba. Oil Red	1	pint	\$18.75	
Dye, Turf Trax Blue	1	gal	\$29.90	
Dye, Turf Trax Blue	2.5	gal	\$23.30	

**4# Imazapyr
(~\$109/gl)**

**2# Imazapyr
(~\$72/gl)**

**Metsulfuron
(~\$2.40/oz)**

**Triclopyr
Ester (\$58/gl)**

**Sulfometuron
(~\$2.00/oz)**

**Clopyralid
(~\$130/gl)**

Hexazinone (~\$24/lb)

Site Prep Mixes



Heavy Brush Mix:

- 24 oz 4# Imazapyr or 48 oz 2# Imazapyr
- 1.5 oz Metsulfuron
- 2-2.5 oz Sulfometuron
- 2.0 qts 5# Glyphosate
- 3.3 oz Opensight
- 2 qts MSO

Light Brush Mix:

- 6 oz 4# Imazapyr or 12 oz 2# Imazapyr
- 1.0 oz Metsulfuron
- 2-2.5 oz Sulfometuron
- 1-1.5 qts. 5# Glyphosate
- 1 qt MSO

I BEAT THE SHIT OUT OF SOME KIDS TODAY

BUT IT WAS FOR A PURPOSE

Spring Herbaceous Release:



Heavy Shit-Hole Mix:

- 2# Hexazinone, Velpar DF VU (Envu) or Tide Hexazinone 75 WDG
- 2-3 oz Sulfometuron Methyl (Oust XP, Spyder, SFM 75...)
- 8 oz Clopyralid (Transline, Sonora, Cleanslate...)
- If Budget allows, 7 oz Esplanade 200 SC (\$87/ac) – price will eventually drop, learn how best to utilize it now.

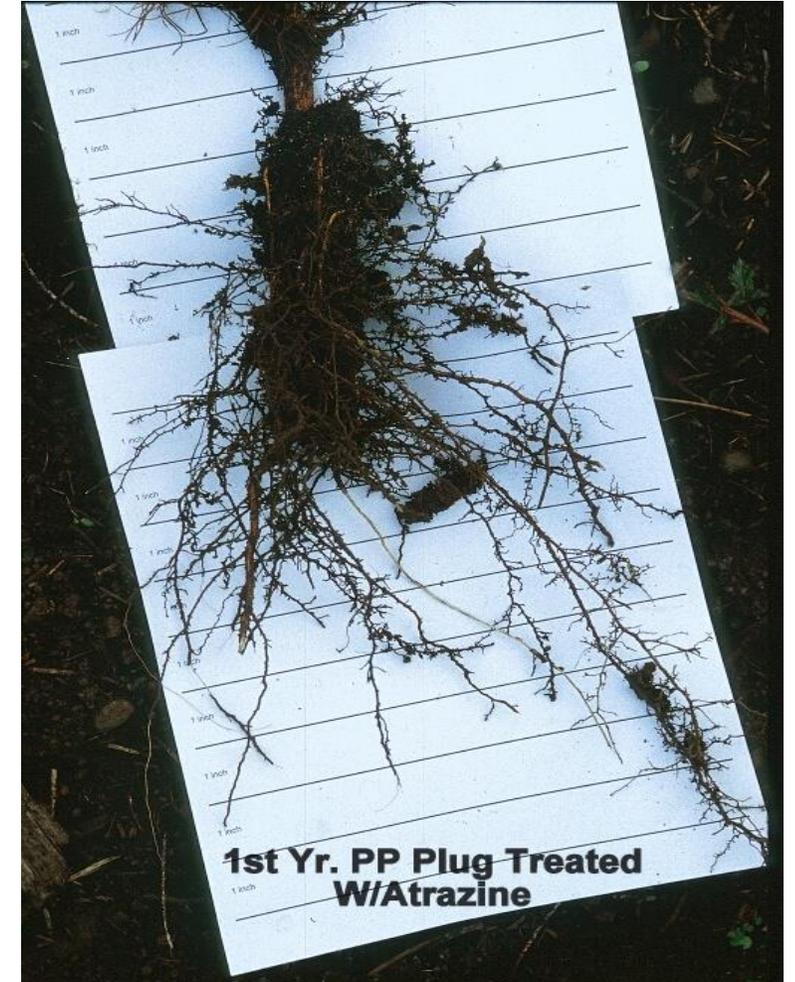


Light Veg/Fairly Clean/Spring Year 1:

- 8-21 oz Clopyralid or 32 oz LV-6 2,4-D Ester, 48 oz Amine 2,4-D or Freelexx (Corteva, Choline Formulation)
- 2 oz Sulfometuron (only if none applied prior year) or 48-72 oz Cleantraxx, or 12 oz Flumioxazin (Flumigard SC, Lockdown SC...

IF Not Over Pine Plugs then I say YES:

- Sulfometuron is an amazing tool if used correctly, AND has gone from \$32/ac to <\$6/ac over last 20 years. Too good a tool to ignore...
- Note that the days of flying 2,4-D for alder in spring, and Roundup Original in Southern OR for Deerbrush Ceanothus in fall, ceased when we began using Oust in site prep mixes!
- It's easy to look past all the benefits of a specific program until we eliminate it – at which point they become obvious.



We've lost registration for \$12/ac Atrazine so alternatives are:

Cleantraxx (\$75 - \$112.50/ac)

Flumioxazin (\$28/ac)

Sulfometuron (\$6/ac)



Spring/Fall Evergreen Brush



- ✓ **Targets Evergreen species just prior to conifer budbreak or very shortly after buds pop (laterals) – or after buds have hardened off in Fall.**
- ✓ **Target species include blueblossom, manzanita, tanoak, live oak etc...**
- ✓ **Very effective and economical treatment for evergreen brush units that may have missed a site prep treatment. Caveat being mix does great job of burning most evergreen species to ground level, but will be back in couple seasons – temporary.**

****Note 3# combined active restriction when combining Triclopyr and 2,4-D For this treatment:**

Conifer Plantations (Excluding Pines) After Hardwoods Begin Growth and Before Conifer Bud Break ("Early Foliar" Hardwood Stage):

Use Garlon XRT alone at 0.75 to 1 quart or with 2,4-D low volatile ester herbicide in water carrier to provide no more than 3 lb ae per acre from both products. After conifer bud break, these sprays may cause more serious injury to the crop trees. Use of a surfactant may cause unacceptable injury to conifers, especially after bud break.

Spring Tric/D Release
Target = Tanoak & Blueblossom
(thank you Jim Carr!)



Rates:

32 oz Garlon XRT/Boulder + 32 oz LV-6 2,4-D + 48 oz MSO

48 oz Garlon 4/Triclopyr 4/Relegate + 32 LV-6 2,4-D + 48 oz MSO

While temporary, how else can we release a Douglas-fir plantation from evergreen brush for less than \$30/ac in material?

Fall Aerial Brush Release:

Unless you're on the coast in a salmonberry/thimbleberry complex this treatment is a waste of time and \$\$. 36 oz of glyphosate isn't enough to take out our brush species so just wings those plants but still a risk to your conifer.

Don't let anyone talk you into adding Imazapyr to "increase spectrum" - Still can't add enough to kill those species but absolutely is enough to damage your plantation for years...

We called it a bullshit.



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