General Herbicide Information*
Vegetation Treatments Using Herbicides on BLM Lands in Oregon
Environmental Impact Statement
July 2008

Currently approved for use on BLM lands in Oregon

2,4-D
Trade names: Many
A selective, foliar-absorbed, translocated phenoxy herbicide used mainly in postemergence applications. 2,4-D is effective against many annual and perennial broadleaf weeds. Ester formulations are the most volatile, the amines least volatile. Plants are most susceptible when they are young and growing rapidly.
  o Mimics natural plant hormones.

DICAMBA
Trade names: Banvel, Banvel II, Banvel SGF, Clarity, Trooper, Vanquish, Dicamba, Rifle
A growth-regulating selective herbicide readily absorbed and translocated from either roots or foliage. Effects similar to those of 2,4-D.
  o Mimics natural plant hormones.

GLYPHOSATE
Trade names: Roundup, Rodeo, Kleenup, Accord, Honcho, E-Z-Ject, Jury, Mirage, Protocol, Rattler, Ruler, Silhouette, Glypho, Glyphomax, AquaNeat, Touchdown, Glyphosate, Durango, RT Master, and many others
A nonselective translocated herbicide with no apparent soil activity. Rain within 6 hr after application may reduce effectiveness. Glyphosate translocates to roots and rhizomes of perennial weeds. Complete control may require retreatment. Low-volume applications are most effective.
  o Inhibits three amino acids and protein synthesis.

PICLORAM (restricted-use herbicide)
Trade names: Tordon 22K, Tordon K
A highly translocated, selective herbicide active through both foliage and roots on many broadleaf herbaceous weeds and woody plants. Picloram is persistent; diligently follow precautions to avoid injuring desirable plants. Unmetabolized picloram in treated foliage will pass through livestock, and manure and urine can be toxic to plants.
  o Mimics natural plant hormones.

To be examined for use on BLM lands in Oregon

BROMACIL
Trade names: Hyvar X, Hyvar X-L
A substituted uracil compound used preemergence or as a spot-treatment on brush. A nonselective soil-residual herbicide; controls a wide range of weeds and brush.
  o Inhibits photosynthesis.

CHLORSULFURON
Trade names: Glean F.C., Telar DF
A selective preemergence or early postemergence herbicide used at low rates. Carefully consider crop rotation plans before using. Recommended for use in wheat, barley, oats, and in fallow on soils of pH 7.5 or less. Telar formulation is a selective broadleaf herbicide used preemergence to postemergence in noncropland areas.
  o Interferes with enzyme acetolactate synthase, resulting in a rapid cessation of cell division and plant growth in both roots and shoots.

CLOPYRALID
Trade names: Stinger, Transline, Clopyr Ag
A highly translocated, selective herbicide active primarily through foliage of broadleaf herbaceous weeds (mostly the Asteraceae, Fabaceae, and Polygonaceae families). Curtail is clopyralid + 2,4-D; Redeem R&P and Confront are clopyralid + triclopyr.
  o Mimics natural plant hormones.

DIFLUFENZOPYR
Trade names: Mixed with dicamba and sold as Distinct and Overdrive
Postemergence, translocated selective herbicide to control broadleaf weeds.
  o Inhibits auxin transport.

DIQUAT (a moderately toxic herbicide that requires protective gear for handling and application)
*Trade names: Diquat Herbicide, Reward, Reglone*
A fast-acting, nonselective, foliar-applied, contact herbicide and plant desiccant. Material is slightly translocated. It is completely inactivated on contact with soil. Using a surfactant enhances its activity.
- Absorbs energy produced by photosynthesis; forms peroxides that disrupt living cells.

DIURON
*Trade names: Karmex, Diuron, Direx, Direx*
A substituted urea compound used preemergence to control annual weeds and certain perennials in noncropland and certain agricultural crops. Plant roots absorb and translocate material. It is foliar absorbed when used with a wetting agent. Diuron may persist several months in soil.
- Inhibits photosynthesis.

FLURIDONE
*Trade names: Sonar, Avast!*
An aquatic herbicide to control submersed and immersed plants. Not particularly effective in controlling floating aquatic plants.
- Inhibits carotene formation, resulting in chlorophyll destruction.

HEXAZINONE
*Trade names: Velpar, Velpar DF, Velpar L, Velpar ULW, Pronone*
A foliar- or soil-applied non-selective herbicide with soil activity for broadleaf weed, brush, and grass control in cropland, noncropland, forest lands, and rangeland.
- Inhibits photosynthesis.

IMAZAPIC
*Trade names: Plateau, Oasis*
Manufacturer has elected to sell Plateau only to government agencies and not to farmers or ranchers. A selective postemergence herbicide effective controlling broadleaf weeds and some grasses.
- Inhibits the plant enzyme acetolactate synthase.

IMAZAPYR
*Trade names: Arsenal, Chopper, Contain, Arsenal Applicator Concentrate, Stalker, Habitat, Imazapyr E-Pro 4, Polaris*
Nonselective, imidazolinone herbicide applied preemergence or postemergence for long-term total vegetation control. Readily absorbed through foliage and roots. Registered for use only on noncropland.
- Inhibits enzyme used in synthesis of some amino acids.

METSULFURON
*Trade names: Escort, Ally, Cimarron, Metsulfuron*
A selective postemergence herbicide used at low rates to control broadleaf weeds in wheat, barley, and fallow. Escort is used for selective broadleaf weed and brush control in pastures, rangeland, and noncropland.
- Interferes with an enzyme, resulting in rapid cessation of cell division in both roots and shoots.

SULFOMETURON
*Trade names: Oust, Spyder*
A broad-spectrum herbicide with preemergence and postemergence activity for noncropland and forestry use.
- Interferes with an enzyme, rapidly stopping cell division.

TEBUTHIURON
*Trade names: Spike*
A soil-applied herbicide to control woody plants and vegetation. Its half-life in soil is 12 to 15 months in areas receiving 40 to 60 inches of annual precipitation.
- Symptoms suggest photosynthesis inhibition.

TRICLOPYR
*Trade names: Garlon 3A, Garlon 4 Herbicide, Forestry Garlon 4, Forestry Garlon XRT, Remedy, Renovate 3A, Renovate OTF*
A growth-regulating selective herbicide to control woody and broadleaf perennial weeds in noncropland, forestland, range, permanent grass pasture, turf, and rights-of-way. Crossbow is triclopyr + 2,4-D; Redeem R&P and Confront are triclopyr + clopyralid.
- Mimics natural plant hormones.