

GENERAL HERBICIDE INFORMATION

Eastern 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.

- Mimics natural plant hormones.

BROMACIL

Trade names: **Hyvar X** and **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.

- Inhibits photosynthesis.

CHLORSULFURON

Trade names: **Glean F.C.** and **Telar DF**

A **selective preemergence** or **early postemergence** herbicide used at low rates. Telar formulation is a selective broadleaf herbicide used preemergence to postemergence in noncropland areas.

- Interferes with enzyme acetolactate synthase, resulting in a rapid cessation of cell division and plant growth in both roots and shoots.

CLOPYRALID

Trade names: **Clopyr Ag**, **Stinger**, and **Transline**

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.

- Mimics natural plant hormones.

DICAMBA

Trade names: **Banvel**, **Banvel II**, **Banvel SGF**, **Clarity**, **Dicamba**, **Rifle**, **Trooper**, and **Vanquish**

A growth-regulating **selective** herbicide readily absorbed and translocated from either roots or foliage. Effects similar to those of 2, 4-D.

- Mimics natural plant hormones.

DIFLUFENZOPYR

Trade names: Mixed with dicamba and sold as **Distinct** and **Overdrive**

Postemergence, translocated **selective** herbicide to control broadleaf weeds.

- Inhibits auxin transport.

DIURON

Trade names: **Direx**, **Diuron**, and **Karmex**

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 a foliar absorbed when used with a wetting agent. Diuron may persist several months in the soil.

- Inhibits photosynthesis.

FLURIDONE

Trade names: **Sonar** and **Avast!**

An aquatic herbicide used to control submersed and immersed plants. Not particularly effective in controlling floating aquatic plants.

- Inhibits carotene formation, resulting in chlorophyll destruction



GLYPHOSATE

Trade names: Roundup, Rodeo, Kleenup, Accord, Honcho, E-Z-Ject, Jury, Mirage, Protocol, Rattler, Ruler, Silhouette, Glypro, Glyphomax, AquaNeat, Touchdown, Glyphosate, Durango, RT Master, and many others
A **nonselective** translocated herbicide with no apparent soil activity. Rain within 6 hours 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.

- Inhibits three amino acids and protein synthesis.

HEXAZINONE

Trade names: Pronone, Velpar, Velpar DF, Velpar L, and Velpar ULW

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: Oasis and Plateau

Manufacturer has elected to sell Plateau only to government agencies and not to farmers or ranchers. A **selective postemergence** herbicide effective in 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, and 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 the synthesis of some amino acids.

METSULFURON METHYL

Trade names: Ally, Cimarron, Escort, and 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.

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.

- Mimics natural plant hormones.

SULFOMETURON METHYL

Trade names: Oust and Spyder

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 precipitation.

- Symptoms suggest photosynthesis inhibition.

TRICLOPYR

Trade names: Garlon 3A, Garlon 4, Forestry Garlon 4, Forestry Garlon XRT, Remedy, Renovate 3A, and Renovate OTF

A growth-regulating **selective** herbicide to control woody and broadleaf perennial weeds in noncropland, forestland, rangeland, permanent grass pasture, turf, and rights-of-way. **Crossbow** is triclopyr + 2,4-D, while **Redeem R&P** and **Confront** are triclopyr + clopyralid.

- Mimics natural plant hormones.

