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.
  o 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.
  o 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.
  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: 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.
  o 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.
  o Mimics natural plant hormones.

DIFLUENZOPYR
Trade names: Mixed with dicamba and sold as Distinct and Overdrive
Postemergence, translocated selective herbicide to control broadleaf weeds.
  o 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.
  o 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.
  o 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, Glyphmax, 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.
  o 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.
  o 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.
  o 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.
  o 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.
  o 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.
  o Mimics natural plant hormones.

SULFOMETURON METHYL
Trade names: Oust and Spyder
Broad spectrum herbicide with preemergence and postemergence activity for noncropland and forestry use.
  o 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.
  o 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.
  o Mimics natural plant hormones.