**Industrial & Rights-Of-Way Weed Management**

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Larimer County Weed District

**I & ROW Weed Management**

- ROW objectives & issues
- Common weed problems
- Management strategies

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**Rights-of-Way**

- Typically 30-50 ft off center
- Can be managed by city, county, state or federal agency
- Management often transferred through agreement

**Rights-of-Way Objectives**

- Maintain sight distance
- Facilitate drainage
- Minimize erosion
- Manage noxious weeds

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Weed Management

- Mowing, herbicide applic.
- Maintain desirable vegetation
- Perennial grass

Smooth brome
- Sod former
- Competitive
ROW Issues
- Native plants
- No-spray requests
- Organic farms
- Mgmt responsibilities

Native plant habitat?
- Graders
- Snowplows
- Mag chloride

Mountain thistle
(*Cirsium scopularum*)

Larimer Co ROW – 1,100 road miles
Larimer County No-Spray Policy

- Requests need to be submitted annually
- Signs must be posted at each end of the property.
- Signs and the lettering on them must be large enough to be easily read from 20 yards distance.

Larimer County No-Spray Policy

- Property owner responsible for managing weeds
- If not, county will spray

Pesticide Sensitivity

- Notification required for Turf & Ornamental, Structural, and Aquatic applications adjacent to property of those listed on Registry of Pesticide Sensitive Persons
- ROW applications not included
- Restrictions or notifications dependant on city or county policy

Organic Farms

- Rules & standards for certification set by USDA, uniform across the United States
- Actual organic certification - CDA
- “No synthetic pesticides or fertilizers” – 3 years

No-spray requests

- Policy not set by CDA
- Dependant on city, county, CDOT preference
Organic Farms

- Rights-of-way applications are not prohibited
- Buffer zone – area between production location and adjacent ROW
- Sufficient in size or other features to prevent unintended contact by pesticides applied to ROW

Organic Farms – Buffer Zone

- Vague, no specific distance
- Land features – wind break, ditch
  - Subject to inspector’s definition
  - Often 25 feet from ROW

Organic Farms

- Inadvertent drift – may make affected area non-organic (dependant on detection of residue)
  - “exceeds a specified tolerance level”
  - Does not affect organic certification of entire farm

Weed law enforcement dependant on weeds present on adjacent lands

ROW management responsibility
CDOT hwys in city limits – city
- mowing
- signage
- drainage
- noxious weed mgnt

ROW - Sites for introduction of weed species
- Disturbed areas
- From adjacent properties to ROW
- Onto adjacent properties
- Movement along corridor
Herbicide recommendations
Selective products
Not all-inclusive
No intentional omissions

Post Emergence
Annual Broadleaf Weed Control
- Kochia – most prevalent spp
  - High degree of genetic variability
  - Resistant to multiple modes of action
    - SU’s – Telar, Escort, Matrix
    - IMI’s – Plateau, Arsenal/Habitat
    - Glyphosate – Roundup.........

Selective post emergence
Kochia control, not:
Tordon, 2,4-D, Transline, Milestone.....

Kochia – selective control
- Dicamba
- Banyel, Vanquish, Clarity
- Fluroxypyr
- Vista, Starane
Russian thistle – 2,4-D

Post Emergence Annual Broadleaf Weed Control
- Dicamba + 2,4-D
  - Brash
  - Rangestar
  - Outlaw
  - Weedmaster
  - Veteran 720
  - ...........

Post Emergence Annual Broadleaf Weed Control
- Acid Formulations
- Less volatile – reduced injury to shrubs, gardens
- Less aromatic – bikers, walkers
- 2,4-D - Hardball
- Dicamba – Vision

Puncturevine Multiple flushes through season
Best residual control - Telar

Winter Annuals
- Emerge in fall/spring
- Mature by early summer

Cheatgrass & jointed goatgrass
- Plateau – fall applied
- Landmark
- Glyphosate – spring applied
- Matrix – fall & spring
Feral rye
Escaped cultivar
Problem weed in wheat
Reclamation spp – big mistake

Rye control:
Plateau ??
Landmark
Matrix
Glyphosate (spring)

Noxious Broadleaf
Weed Control

Leafy spurge
**Leafy Spurge Management**

- Dicamba/2,4-D - marginal
- Milestone, Transline **not effective**
- Tordon – 1 pint – 1 qt
  - w/Overdrive – 4-6
- Plateau – 10-12 oz
  - Fall, cool season grass injury

**Leafy Spurge Management**

- Paramount – 12-16 oz
  - w/Overdrive – 4-6 oz
- Perspective – 3-4 oz
  - w/Overdrive – 4-6 oz

**Perspective**

- Effective – most perennials
- Grass safety is rate dependant
- Applications near trees??
- Rates – 4.75 – 8.0 oz product perennial weed species

Perspective
Grass safety is rate dependant
3-4 oz + 4 oz Overdrive - safer
2014 Tri River Area
Pest Management Workshop
109 IROW

**Paramount**
- No longer available in 2014
- Quinclorac liquid formulation
- Quinstar – Albaugh, 3.8 lb gal
- Facet L – BASF, 1.5 lb gal

**Canada thistle**
- Milestone
- Perspective
- Tordon
- Transline
  - Pre-mixes
  - Telar

**Biennial thistles**
- Musk
- Scotch
- Bull
- Plumeless

**Diffuse, Spotted Knapweed**
- Rosette – bolt stage
- Tordon
- Perspective
- Transline, Curtail, Redeem
- Milestone
Streamline - MAT + Escort
Viewpoint – MAT, Escort, Imazapyr
Habitat/Arsenal 1-2 qts
Bareground Products
- Piper
- Frequency
- Esplanade
- Portfolio

Piper
- Valent product
- Flumioxazin (Sureguard / Payload) + pyroxasulfone
- Longer residual, broader spectrum
- Safe around trees

Frequency
- BASF product
- Toprimezone
- Pre & postemergent
- Broad spectrum

Esplanade
- Bayer product
- Indaziflam
- Preemergent
- Broad spectrum (kochia may escape, depending on soil & rate)
- Safe around trees

Portfolio
- Wilbur-Ellis product
- Sulfentrazone
  - In Throttle w/ Telar & Escort
- Preemergent
- Broadleaf activity

Questions?
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