NOXIOUS WEEDS
INVASIVE WEEDS

CLYDE MASON
GREENFIELD DISTRICT

WEEDS
• NOXIOUS WEED CAN NOT GROW
• NOXIOUS WEEDS CAN NOT HAVE IN SEED
• INVASIVE PLANTS
  – NO IND CODE

INVASIVE PLANTS
• Harmful, non-native plants have been introduced to North American landscapes.
• Some brought in intentionally-(landscape), others introduced accidentally.

What’s the Big Deal...
Why is this Important?
• As native plants are displaced by invasives,
• Native populations decline, and
• So does habitat diversity that so many forms of wildlife depend upon.
• Invasives displaced farm crops

What are “invasive plants”?
Plants which grow aggressively and displace other species.
CANADA THISTLE

- BEST 16 OZ TO 32 OZ TORDON / ACRE
- 2 TO 3 GT GARLON PER ACRE
- 1/2 OZ TELAR PER ACRE
- PT TRANSLINE PER ACRE
- ALL OK TO SPRAY ON GRASS

2 QT SPRAYED IN SEPT NOTE WILD CARROT
JOHNSON GRASS

- OUTRIDER
  - 1 OZ PER 100 GALLONS/ACRE
  - 1 OZ PER 25 GALLON/ACRE
  - NO BROWN OUT- GOOD ON ROOTS

- FUSION EVERY 2 OR 3 SEASONS
  - BURN DOWN- NOT GOOD ON ROOTS
Multiflora Rose
- Perennial Shrub
- Suckers/Seeds
- Tip Sprouts
- Escort
- Garlon
- Arsenal/Stalker
- Tordon
- Follow up
- Foliar

Multiflora Rose
- Perennial Shrub
- Suckers/Seeds
- Tip Sprouts
- Escort
- Garlon
- Arsenal/Stalker
- Tordon
- Follow up
- Foliar

MULTIFLORA ROSE
- 2 QT GARLON + 2 OZ ESCORT
- Tordon

Purple Loosestrife
*Lythrum salicaria*
Purple Loosestrife

Perennial Herb
• 30-50 Stems per root
• Likes Wetlands
• Out competes natives
• Reduce Waterfowl habitat
• 2-3 million seeds/plant
• Stem reproduction 1’/yr
• Rodeo
• Garlon 3 A
• Arsenal—NEW HABITAT
• Foliar

Garlon* 3A Registration

• December 3, 2002 DAS received the Garlon* 3A herbicide Section 3 label registration for aquatic uses.
• So Now What?
• This has set into motion a number of registration activities at the state level.

Kudzu
Kudzu!

- Climbing Simi-Woody
- Flower late summer
- Kills/Degrades Trees
- 60 ft/season or 1 ft/day
- Tap Root 7" by 6' deep
- Escort/Garlon
- Transline
- Accord Concentrate
- Foliar

KUDZU

- 21 TO 32 OZ TRANSLIN PER 100 GAL
- DNR MEETING ON MARCH 23
- 19 CO IN THE SOUTH

PHRAGMITES

- AFTER SEEDING- RODEO
- HABITAT
Phragmites

- Arsnel – HABITAT  2 Qt+
- 1 Qt MSO/Acre
- Rodeo 1-1.5 % + 1% Invade 90
- During late summer/bloom

HABITAT

Basal Bark Treatments

- Coverage of the entire stem circumference is key to success
- Must treat higher up on larger diameter stems
- On root suckering species, make sure collar area is covered, treat root flares, or exposed roots
- Do not treat when bark is wet

Autumn Olive

- Shrub or Small Tree
- Berry Attracts birds & Wildlife
- Pasture & Understory of Forest
- Basal-Garlon 4/Stalker/Tordon
- Cut Surface-Garlon 4/Stalker
- Foliar-Garlon 3A/Krenite/Arsenol/Tordon

Autumn Olive
Eleagnus umbellata
AUTUMN-OLIVE

Bush Honeysuckles
Deciduous Shrubs
- 6-15 feet
- Egg shaped leaves
- Dense shading
- Stout Shrub Growth
- Accord Concentrate
- Tordon K
- Arsenal/Stocker

Asian Bush Honeysuckles
(Lonicera sp.)

Japanese Honeysuckle
Arsenal/Stalker
Garlon 4 2%
Accord Con 2%
Escort XP

Tree of Heaven
Ailanthus
Chinese Sumac
Female Tree
Fence/Roads
Toxic to plants
Prolific seed
Suckers
Garlon 4/Stalker
Garlon3A/Arsenal
Accord Concentrate
Escort/Tordon
Follow up
Tree of Heaven (Ailanthus)

Japanese Knotweed
- Shrublike herbaceous perennial
- Dense Thicket shade native vegetation
- With stand floods and drought
- Red/Brown Cane Like Stems
- Rhizomes
- Garlon/Tordon
- Arsenal/Stalker
- Accord Concentrate
- Cut Stubble
- Foliar-Oct-Nov To Avoid non-target Damage

TREE-OF-HEAVEN

JAPANESE KNOTWEED
- GARLON
- ROUNDUP
- TORDON
Garlic Mustard

- Cool Season Biennial Herb
- Rosettes
- Can be mistaken for several White flowering Native plants
- Partial Shade & Flood Plains
- Burning releases Seeds
- Accord Conc 1%
- Garlon 3A
- Plateau
- Foliar-April-June

Garlic mustard (Alliaria petiolata)

Other Invasives

- Reed Canary Grass
- Bush Honersuckle
- Musk Thistle
- Teasel
- Crownvetch
- Trefoil
- Foxtail Barley
Dormant Stem Applications

- Expand your spray season- NOV to April
- Keep employees year round
- No brown out low profile
- Easy Access in crop fields
- Use on small diameter brush 3” or smaller
- Use for chemical side trim

Dormant Stem - Kentucky DOT - Applied March 22, 2002 Photo taken July 2, 2002
Garlon 4 @ 2 gallons + 2 gallons of COC per 100 gallons

Dormant Stem - Kentucky DOT - Applied March 22, 2002 Photo taken July 2, 2002
Garlon 4 @ 2 gallons + 2 gallons of OIL per 100 gallons
BROWN BRUSH MONITOR

What Has Driven This Concept?
• We are all aware of the pressures that we face in today’s society
  – Pesticide fears
  – Environmental Issues
  – Aesthetics
  – No brown out

Initial Ideas
• Mow and Spray at the same time
• Simple Design
• Herbicide treatment without Brownout

Details of The Brown Brush Monitor

An Inside View of The Brown Brush Monitor

Another “Cool” Feature

“Low-Profile” Herbicide application
Spray Deposition

Treated Vs. Untreated View

Treated with product and dye
Mowed only

Treated April 18, 2001 Photo
Taken September 25, 2001

Garlon 4 @ 5 pts + Tordon 101M @ 1 gallon and Non-anionic surfactant @ 3 pts + Bulls Eye dye @ 2 oz/acre