

# Range, Pasture & Aquatic Product Guide



As a leader in range, pasture and aquatic products, we balance innovation and efficiency to bring you a focused product portfolio that saves time and delivers results.

[nufarm.com/uscrop](https://nufarm.com/uscrop)



# PRODUCTIVE PASTURES REQUIRE GRASSMANSHIP.

 **MANAGE BRUSH AND WEEDS**

 **RE-ESTABLISH GRASS QUALITY**

 **RAISE YOUR CARRYING CAPACITY**

## GRASSMANSHIP IS ABOUT PROTECTING YOUR MOST VALUABLE GRASS ASSETS.

Nufarm recognizes your commitment to producing high quality beef. One key step is assuring high-quality range and pasture productivity. Now more than ever, better grass can equate to lower production cost per head and higher profits. When you take the steps to make your grass the best it can be – that’s Grassmanship.

The Grassmanship program provides best practices and product solutions to help you manage range, pasture, and premises with sustainable precision. Nufarm applauds your dedication to quality Grassmanship that makes a true difference to the land and your cattle.

### NUFARM RANGE & PASTURE SOLUTIONS SUPPORT YOU

#### ON THE RANCH...

GRASS QUALITY AND DENSITY RESPONSE

INVASIVE SPECIES MANAGEMENT

BRUSH CONTROL AND RANGE RESTORATION

#### AT THE FARM...

CATTLE-CONCENTRATED PASTURE RECOVERY

HAY AND FORAGE YIELD IMPROVEMENT

IRRIGATED GRASSLAND PERFORMANCE

#### ON THE PREMISES...

OUTBUILDING, ROADSIDE, AND FIELD BORDER WEED CONTROL

## CONSIDER THESE PRACTICES IN YOUR APPROACH TO GRASS MANAGEMENT

**WORK A PLAN:** Develop a plan that addresses under-performing grass assets

**SOIL TEST:** Test in the fall to understand and address fertility needs

**FERTILIZE:** Fertilize using a range of alternatives to increase production

**MOW PASTURE:** Mow highly managed pastures to increase grass density and quality

**ROTATE GRAZING:** Rotate following a diligent paddock or pasture use plan

**RENOVATE PASTURE:** Renovate by planting to improve stand density

**REDUCE WEEDS:** Apply the right herbicide at the right time when needed



Grassmanship™ is about protecting your most important asset, grass. Higher grassland productivity means higher stocking numbers, higher yields and higher profitability per acre.



This guide is intended to provide a product overview. See product labels for complete details and labeled use listing. [www.nufarm.com/uscrop](http://www.nufarm.com/uscrop)

# NUFARM OFFERS HERBICIDE SOLUTIONS TO HELP YOU STAY IN CONTROL

	WeedMaster® XHL	Purestand® MAX	Scorch™	Weedar® 64	Patriot®	E-2	Clean Slate®
Annual smartweed			●	●	●	●	●
Bindweed	●		●	SUPPRESSION	SUPPRESSION	●	
Bitter sneezeweed	●	●	●	●	●	●	
Broom snakeweed			●		●	●	
Broomweed	●	●	●	●	●	●	
Buffalobur	●		●	●		●	SUPPRESSION
Bull thistle	●		●	●	●	●	●
Bullnettle	●		●	●		●	
Canada thistle	●	SUPPRESSION	●	SUPPRESSION	●	●	●
Carolina horsenettle	●		●			●	
Cocklebur	●	●	●	●	●	●	●
Croton	●	●	●	●	●	●	
Dogfennel	●	●	●		●	●	●
Eastern persimmon	●		●			●	●
Goldenrod		●	●	SUPPRESSION	●	●	●
Horseweed	●	●	●	●		●	●
Kochia	●	●	●			●	
Lespedeza			●		●		
Marshelder	●	●	●	●	●	●	●
Mesquite*	●		SUPPRESSION			SUPPRESSION	●
Musk thistle	●	●	●	●	●	●	●
Pigweed	●	●	●	●	●	●	
Ragweed, common	●		●	●		●	●
Sunflower	●	●	●	●	●	●	●
Western bitterweed			●	●		●	
Western ragweed	●		●	●		●	
Wild carrot	●	●	●	●	●	●	●

● ANNUAL ● PERENNIAL ● BIENNIAL

\*control of sprout/seedling, suppression of mowed/mature plants

**WeedMaster XHL** WeedMaster® XHL is an innovative premix powered by Nufarm's patented Dual Salt Technology™ with a unique combination of 2,4-D (DMA + MMA salts) and DGA dicamba. It controls more than 90+ types of annual/perennial broadleaf weed species.

**Purestand MAX** With a unique combination of two powerful active ingredients, Purestand® MAX is a selective post-emergent herbicide designed specifically for bermudagrass pastures.

**Scorch**

Scorch™ works through systemic activity to knock down more than 100 broadleaf weeds including dogfennel and lespedeza. It combines three powerful actives to better handle variable weather conditions.

**Weedar XHL**

Weedar® XHL treats 37% more acres with every gallon and offers low odor and excellent tank mix compatibility.

**Patriot**

Patriot® Selective Herbicide burns down tough broadleaf weeds such as dogfennel and lespedeza. With its wide application window, Patriot gives flexibility if application is delayed.

**E-2**

E-2 controls 240 labeled species using a flexible amine formulation. E-2 combines 3 powerful actives to provide excellent control of thistles, kochia and dogfennel.

**Clean Slate**

Clean Slate® is a post-emergent herbicide that controls some of the more difficult weeds in pasture ranging from vetch and clover to Canada thistle and mesquite. Can be applied in established pastures and rangeland with grazing restrictions.

# MANAGE GRASS AS A CROP FOR LONG-TERM BENEFITS

By Dan Beran, PhD, Technical Services Director, Nufarm



**Cattle producers have several different factors to consider when making decisions on how to manage their pastures. Whether they want to control pests or unwanted vegetation, or even restore the native grasses, it's critical that managers are equipped with the right tools to achieve their grazing objectives.**

One fundamental need is for land managers to get most value for their investment in grazing management inputs. Proper range and pasture management will increase beneficial grass, which will affect the carrying capacity per acre. Dan Beran, PhD, director of technical services at Nufarm, explains that when managers have fewer weeds and undesirable plants in their pastures, they are going to end up with more desirable grasses leading to a higher yield. "As you get more carrying capacity, you can adjust stocking rates accordingly, which can impact your ability to raise profits. It's long-term approach, but certainly can lead to a more sustainable and profitable operation," Beran says.

Beran describes cattle as harvesters and grass as the yield, with cattle turning grass into pounds of beef. However, the grass and forage species are generally perennial plants, coming back year after year unlike conventional crops such as corn and soybeans. "In most cases, pastures and rangeland consist of native grasses or domesticated perennial grasses," Beran says. "You see the effects year over year, unlike a crop where you're basically starting over every year. Managing your grass for maximum benefit means thinking of it as a long-term crop that persists year after year depending on how you managed it in the past."



MANAGE  
BRUSH AND  
WEEDS



RE-ESTABLISH  
GRASS  
QUALITY



RAISE YOUR  
CARRYING  
CAPACITY



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**“It’s easy to think of grass as a crop when controlling weeds.”**

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Beran says it’s easy to think of grass as a crop when controlling weeds. “If managers let weeds seed and undesirable plants get established, then they are going to keep spreading and will eventually be harder to control, much like in a crop field,” he said. “It is better to get ahead of the problem before it’s too late. If you let weeds get established, before you know it, you’re controlling denser populations of larger weeds – at a greater cost,” Beran says.

Preventing infestations of invasive weeds is critical because many of them will outcompete some of the best pasture and range grasses. Beran says that when thinking about weed control, managers will need to keep in mind the long-term results. If managers don’t take control of the weeds early, many of them will come back year after year slowly lowering the carrying capacity over time. “You really have to take a long-term view,” he explains.

Nufarm, a leader in weed management herbicides, equips range and pasture managers with the best tools possible to obtain their grazing goals. This management can include maintaining quality grass, controlling annual or perennial broadleaf weeds, knocking back brush issues, restoring pasture and containing wanted vegetation around the property.

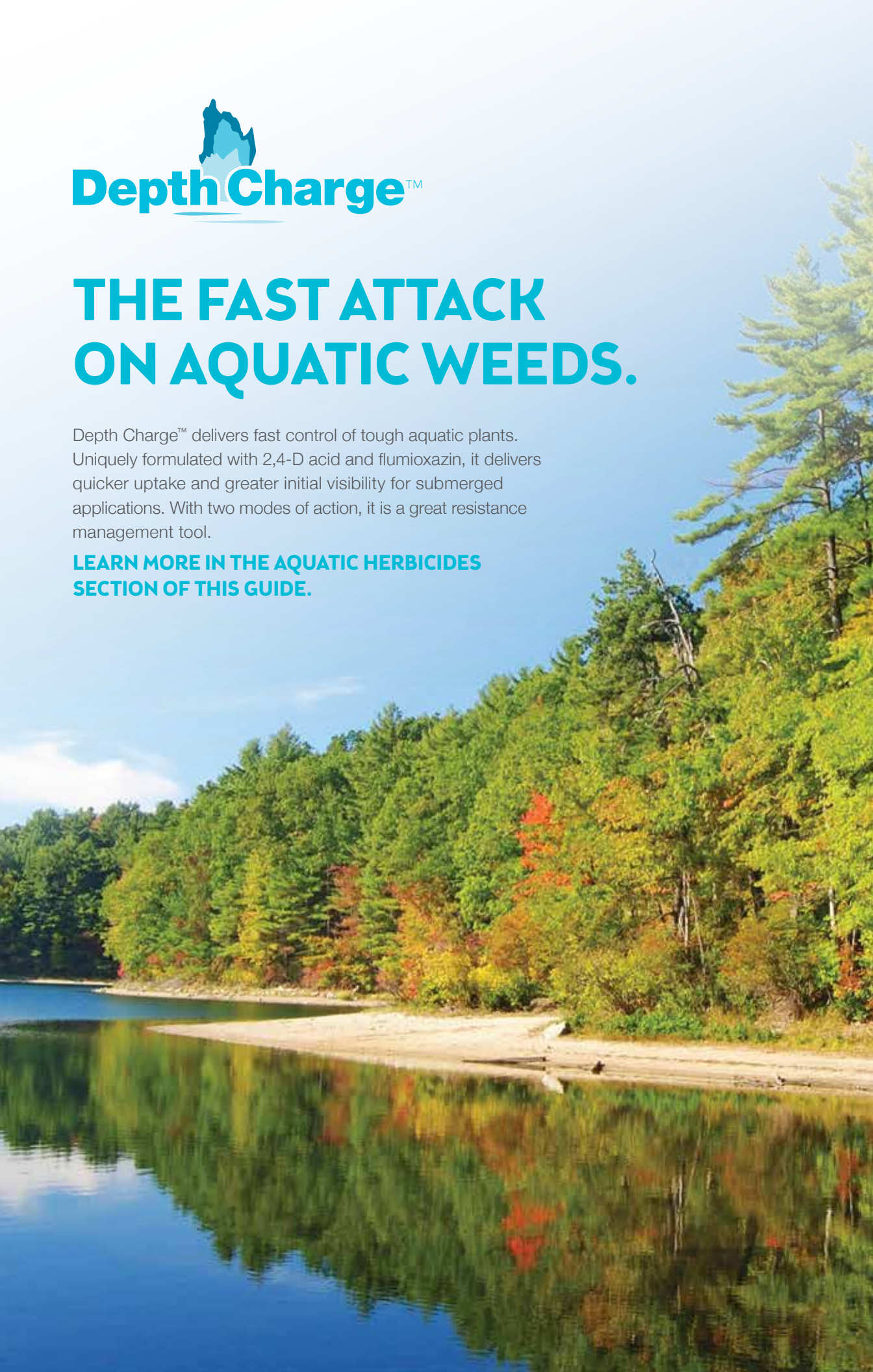




# THE FAST ATTACK ON AQUATIC WEEDS.

Depth Charge™ delivers fast control of tough aquatic plants. Uniquely formulated with 2,4-D acid and flumioxazin, it delivers quicker uptake and greater initial visibility for submerged applications. With two modes of action, it is a great resistance management tool.

**LEARN MORE IN THE AQUATIC HERBICIDES  
SECTION OF THIS GUIDE.**





## AQUATIC HERBICIDES

**BISPYRILLOAC-SODIUM** Long-lasting residual activity

# Tradewind®

Tradewind® is in a novel chemical class and provides a tool for herbicide resistance management.

<b>EPA REG. NO.</b>	59639-165
<b>ACTIVE INGR.</b>	bispyribac-sodium (80%)
<b>FORMULATION</b>	soluble powder
<b>CHEM. FAMILY</b>	pyrimidinyloxybenzoic
<b>GROUP NO.</b>	2
<b>SIGNAL WORD</b>	caution
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 30 gal, 265 gal tote, bulk



### KEY PERFORMANCE BENEFITS

- Systemic chemistry to selectively control hydrilla, Eurasian watermilfoil and other undesirable aquatic plants
- Minimal impact on many desirable aquatic plants
- Long-lasting residual activity for both submersed and floating aquatic plants

### KEY USES

For the management of undesirable aquatic vegetation in slow moving or quiescent waters

### KEY WEEDS CONTROLLED

Duckweed, Eurasian watermilfoil, hydrilla (including fluoridone-resistant), mosquito fern, parrotfeather, water lettuce *(see label for complete list)*

**GLYPHOSATE** The standard for total post-emergence weed control

# Aqua Neat®

Aqua Neat® is formulated for aquatic and terrestrial weed and brush control.

<b>EPA REG. NO.</b>	228-365
<b>ACTIVE INGR.</b>	glyphosate isopropylamine (53.8%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	glycine
<b>GROUP NO.</b>	9
<b>SIGNAL WORD</b>	caution
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 30 gal drum, 250 gal tote



### KEY PERFORMANCE BENEFITS

- Excellent control of cattail, willow and Johnsongrass
- Approved for flowing, non-flowing or transient bodies of water
- Non-volatile
- Can be used in wildlife restoration and management areas

### KEY USES

Aquatic sites, forestry sites, industrial sites, recreational and public areas, rights-of-way, wildlife habitat restoration and management areas

### KEY WEEDS CONTROLLED

Barnyardgrass, chickweed, foxtail, pigweed, shepherd's-purse *(see label for complete list)*

**PREMIUM MIXTURES** Convenience and power in one package

# AquaSweep®

The first combination liquid formulation labeled for terrestrial and aquatic uses. Controls invasive and noxious weeds from the top of the mountain to the bottom of the river including wetlands as well as rangeland and pasture.

<b>EPA REG. NO.</b>	228-316
<b>ACTIVE INGR.</b>	2,4-D amine (34.2%), triclopyr amine (15.2%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	phenoxy, pyridine
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	danger
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 15 gal drum



### KEY PERFORMANCE BENEFITS

- Full terrestrial and aquatic use
- Broad-spectrum control of broadleaf weeds, trees and brush
- Control of emergent, floating and submerged aquatic weeds
- Peace-of-mind during selective weeding applications that are interspersed with aquatic and wetland areas
- Selectivity for grasses, allowing excellent recolonization

### KEY USES

Aquatic sites, municipalities and utility sites, non-irrigation ditchbanks, non-crop areas, pasture, rangeland

### KEY WEEDS CONTROLLED

Alligator weed, cottonwood, poison ivy and oak, Russian olive, sericia lespedeza, trumpet creeper, water hyacinth *(see label for complete list)*









EPA REG. NO.	228-534
ACTIVE INGR.	imazapyr (28.7%)
FORMULATION	liquid
CHEM. FAMILY	imidazolinone
GROUP NO.	2
SIGNAL WORD	caution
PACKAGE SIZE	2.5 gal container (2 per case), 5 gal container, 250 gal tote, bulk



The standard choice for rights-of-way and aquatic sites. Superior control of difficult to control weeds, grass and brush. Effective in low-volume applications.

#### KEY PERFORMANCE BENEFITS

- Highly effective herbicide providing long-term control of unwanted vegetation
- Provides control of various broadleaf weeds, annual and perennial grasses as well as many brush and vine species
- Prevents re-sprouting or germination of labeled weeds and brush in treated areas when used at recommended rates
- A spray adjuvant is required for post control
- Pre- or post-emergent control

#### KEY USES

Aquatic sites, industrial non-cropland areas, other non-crop areas, vegetation management

#### KEY WEEDS CONTROLLED

Bull thistle, cattails, cogongrass, kudzu, many hardwood species, pigweed, poison hemlock (see label for complete list)



EPA REG. NO.	228-570
ACTIVE INGR.	imazapyr (53.1%)
FORMULATION	liquid
CHEM. FAMILY	imidazolinone
GROUP NO.	2
SIGNAL WORD	caution
PACKAGE SIZE	1 qt container (4 per case), 2.5 gal container (2 per case), 15 gal container, 30 gal drum, 250 gal tote, bulk



Twice the activity of Nufarm Polaris® Herbicide with the convenience of fewer packages to reduce labor costs. Labeled for rights-of-way, forestry, pasture/rangeland and aquatic areas.

#### KEY PERFORMANCE BENEFITS

- Superior broad-spectrum control of tough annual and perennial broadleaf weeds and grasses
- All inclusive label—forestry, aquatic, utility rights-of-way
- Concentrated formulation—less product to handle
- Outstanding control on hardwood species
- A spray adjuvant is required for post control
- Pre- or post-emergent control

#### KEY USES

Aquatic sites, fencerows, forestry sites, industrial non-cropland areas, pasture, rangeland, wildlife openings

#### KEY WEEDS CONTROLLED

Bull thistle, cordgrass, kudzu, many hardwood species, pigweed, Russian olive, saltcedar (see label for complete list)



## SELECTIVE HERBICIDES

**PHENOXY** Effective and economical control of broadleaf weeds

### Weedar® 64

EPA REG. NO.	71368-1		
ACTIVE INGR.	2,4-D amine (46.8%)		
FORMULATION	liquid		
CHEM. FAMILY	phoxycarboxylic acid		
GROUP NO.	4	REI	48 hours
SIGNAL WORD	danger		
PACKAGE SIZE	1 gal container (5 per case), 2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk		



Weedar® 64 is a low-volatile, premium DMA-4 formulation that offers good mixing and weed penetration of more than 100 hard-to-control weed species that overtake industrial and non-crop areas. This 2,4-D "workhorse" is registered for a variety of settings, including rangeland and pasture.

#### KEY PERFORMANCE BENEFITS

- Readily soluble in water and forms a true solution
- Broad-spectrum broadleaf phenoxy herbicide in a low-volatile formulation
- Versatile label includes industrial sites, ditches, forested areas, and aquatic weed control

#### KEY USES

Aquatic, Conservation Reserve Program (CRP) land, drainage ditch banks, established grass pastures, fencerows, forests, rangeland, right-of-ways

#### KEY WEEDS CONTROLLED

Bull thistle, burdock, chicory, healall, jimsonweed, lambsquarters, marshelder, morningglory, plantain, prickly lettuce, ragweed, rough fleabane, sowthistle, vetch, wild carrot, wild lettuce, wild onion (see label for complete list)



## Weedar® XHL

<b>EPA REG. NO.</b>	71368-140
<b>ACTIVE INGR.</b>	dual salt 2,4-D (57.8%)
<b>FORMULATION</b>	soluble liquid
<b>CHEM. FAMILY</b>	phenoxyacetic acid
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	danger
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 30 gal drum, 250 gal tote, bulk



Weedar® XHL is an amine formulation of 2,4-D that contains a high load of active ingredient to cover 37% more acres with every gallon than traditional 2,4-D amines.

### KEY PERFORMANCE BENEFITS

- Patented DMA + MMA salt formulation provides a substantial increase in active ingredient concentration to treat 37% more acres with every gallon
- Less volatility than esters and comparable performance to choline 2,4-D
- Low odor and excellent tank mixing compatibility with a range of partner products including K-salt glyphosate
- Reliable formulation stability, including at low temperatures

### KEY USES

Rangeland and Established Grass Pastures, All Fallow Systems & Sites, C.R.P. Land, Non-Crop sites (incl. Drainage ditches, Fence rows, Rights-of-Way.)

### KEY WEEDS CONTROLLED

Bull thistle, burdock, chicory, healall, jimsonweed, lambsquarters, marshelder, morningglory, plantain, prickly lettuce, ragweed, rough fleabane, sowthistle, vetch, wild carrot, wild lettuce, wild onion (*see label for complete list*)

## WeedMaster®

<b>EPA REG. NO.</b>	71368-34
<b>ACTIVE INGR.</b>	DMA dicamba amine (12.4%), 2,4-D amine (35.7%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	benzoic acid, phenoxyacetic acid
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	danger
<b>PACKAGE SIZE</b>	1 gal container (5 per case) 2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk



A selective, post-emerge herbicide that provides long-lasting control of a broad spectrum of annual, biennial and perennial broadleaf weeds.

### KEY PERFORMANCE BENEFITS

- Dependable broad-spectrum control of annual and perennial broadleaf weeds
- Flexible application options
- Excellent tank-mix partner
- Can improve yield or forage quality by preventing competition from weeds

### KEY USES

Conservation Reserve Program (CRP) land, non-crop areas, pasture, rangeland

### KEY WEEDS CONTROLLED

Broomweed, buckeye, chickweed, mustards, ragwort, thistle (*see label for complete list*)

## WeedMaster® XHL

<b>EPA REG. NO.</b>	71368-139
<b>ACTIVE INGR.</b>	dual salt 2,4-D (36.8%) + DGA dicamba (12.3%)
<b>FORMULATION</b>	soluble liquid
<b>CHEM. FAMILY</b>	phenoxyacetic acid
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	danger
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 30 gal drum, 250 gal tote, bulk



WeedMaster® XHL is an innovative premix powered by Nufarm's patented Dual Salt Technology™ with a unique combination of 2,4-D (DMA + MMA salts) and DGA dicamba. It controls more than 90+ types of annual/perennial broadleaf weed species.

### KEY PERFORMANCE BENEFITS

- Industry-leading 2,4-D concentrate plus DGA dicamba requires 20% less product per acre, covering more ground with lower storage and transport costs
- Less volatile DGA dicamba Dual Salt 2,4-D premix alleviating off target concerns plus low odor for improved handling making it more user friendly
- Reliable formulation stability, including at low temperatures

- Excellent tank mixing compatibility with a range of partner products

### KEY USES

Conservation Reserve Program (CRP) land, fallow, general farmstead, grass (hay or silage), pasture, rangeland

### KEY WEEDS CONTROLLED

Cocklebur, lambsquarters, maretail, nightshade, pigweed, shepherd's purse, including glyphosate- and ALS-resistant species. (*see label for complete list*)

## Weedone® LV4 EC

<b>EPA REG. NO.</b>	228-139-71368
<b>ACTIVE INGR.</b>	2,4-D ester (67.2%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	phenoxyacetic acid
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	caution
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk



Weedone® LV4 was the first low volatile 2,4-D ester on the market. High quality emulsifiers promote good mixing with all grades of liquid fertilizer and provides fast penetration on hard-to-control species.

### KEY PERFORMANCE BENEFITS

- Broad-spectrum control of broadleaf weeds and brush species
- Excellent tank-mix partner
- Offers quick burndown when tank mixed with Diablo® and provides superior kochia control

### KEY USES

Conservation Reserve Program (CRP) land, forest management, non-crop areas

### KEY WEEDS CONTROLLED

Bindweed, marshelder, musk thistle, nettle, tansy ragwort (*see label for complete list*)



AQUATIC



RIGHTS-OF-WAY



RAILROAD



RANGE AND PASTURE



FORESTRY



INDUSTRIAL



UTILITY

SELECTIVE HERBICIDES

## Weedone® LV6 EC

<b>EPA REG. NO.</b>	71368-11
<b>ACTIVE INGR.</b>	2,4-D ester (87.3%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	phenoxyacetic acid
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	caution
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk



**DICAMBA** Versatile, economical tool for broadleaf control in multiple sites

## Diablo®

<b>EPA REG. NO.</b>	228-379
<b>ACTIVE INGR.</b>	DMA dicamba salt (49.41%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	benzoic acid
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	caution
<b>PACKAGE SIZE</b>	2.5 gal container (2 per case), 30 gal drum, 250 gal tote, bulk



**PYRIDINES** Control tough brush and broadleaf species

## Candor®

<b>EPA REG. NO.</b>	228-565
<b>ACTIVE INGR.</b>	triclopyr ester (16.5%), 2,4-D ester (34.4%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	pyridinecarboxylic acid, phenoxyacetic acid
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	caution
<b>PACKAGE SIZE</b>	1 gal container (6 per case), 2.5 gal container (2 per case)



## Clean Slate®

<b>EPA REG. NO.</b>	228-491
<b>ACTIVE INGR.</b>	clopyralid amine (40.9%)
<b>FORMULATION</b>	liquid
<b>CHEM. FAMILY</b>	pyridine
<b>GROUP NO.</b>	4
<b>SIGNAL WORD</b>	caution
<b>PACKAGE SIZE</b>	64 oz container (4 per case), 2.5 gal container (2 per case)



This low-volume formulation offers easy handling and storing and is ideal for aerial and custom applications. Mixes well with liquid fertilizer and can also be tank mixed with water and oil to control tough perennial broadleaf weeds and brush.

### KEY PERFORMANCE BENEFITS

- Low-volatile formulation mixes well with liquid fertilizers
- Ideal for aerial application utilizing less product
- Highest acid concentration, allows for efficient shipping and storage
- Can be tank mixed with a broad spectrum of herbicides for enhanced control of many species

### KEY USES

Forest management, industrial sites, non-crop areas, pasture, rangeland

### KEY WEEDS CONTROLLED

Alfalfa, bull thistle, dandelion, knotweed, pigweed (*see label for complete list*)

Offers extensive control of brush, vines and broadleaf weeds in non-crop areas.

### KEY PERFORMANCE BENEFITS

- Systemic product with residual soil activity
- Non-toxic to microorganisms
- Tank-mix compatible with many other herbicides
- Noxious weed and brush control

### KEY USES

Non-crop areas, pasture, rangeland

### KEY WEEDS CONTROLLED

Chickweed, knapweed, kochia, milkweed, Russian thistle (*see label for complete list*)

An effective low-volatile ester formulation that controls many unwanted trees, brush, annual and perennial broadleaf weeds without harming desirable grasses.

### KEY PERFORMANCE BENEFITS

- Controls more than 100 tough annual and perennial broadleaf weeds and woody plants
- May be combined with liquid nitrogen fertilizer
- No grazing restrictions for most livestock, including cattle, horses, sheep and goats
- Rainfast in 2 hours

### KEY USES

Conservation Reserve Program (CRP) land, fencerows, industrial sites, pasture, rangeland

### KEY WEEDS CONTROLLED

Tough annual and perennial broadleaf weeds, woody plants and brush including blackberries and poison ivy (*see label for complete list*)

Post-emergent of difficult to control weeds including kudzu and thistle. Can be applied to conifer, hardwood and established grasses for maximum flexibility.

### KEY PERFORMANCE BENEFITS

- Post-emergent control of tough weeds including knapweed, ragweed, mimosa, redbud, locust, mesquite and others
- Ideal for forestry applications including conifer and hardwood plantations
- Rainfast in 2 hours
- Excellent tank-mix partner
- Outstanding residual control
- Broad range of selectivity on pasture, hardwoods and conifers

### KEY USES

Forestry management, industrial sites, non-cropland areas, pasture, rangeland, wildlife openings

### KEY WEEDS CONTROLLED

Knapweed, kudzu, locust, mesquite, mimosa, ragweed, redbud, thistle (*see label for complete list*)





## Patriot®

EPA REG. NO.	228-391
ACTIVE INGR.	metsulfuron methyl (60%)
FORMULATION	water-dispersible granular
CHEM. FAMILY	sulfonylurea
GROUP NO.	2
SIGNAL WORD	caution
PACKAGE SIZE	16 oz bag (8 per case)



Effective, proven control of many annual and perennial weeds and woody plants in Conservation Reserve Programs, non-crop areas and forestry sites, and range and pasture.

### KEY PERFORMANCE BENEFITS

- Effective control of noxious and troublesome weeds, especially for spot treatments
- Low use rates, gentle on environment
- No grazing restrictions for any livestock at certain application rates
- Broad-spectrum control
- Increases control of hard-to-control weeds when added with WeedMaster®
- Labeled for aerial applications

### KEY USES

Forestry sites, industrial sites, non-crop areas, pasture, rangeland

### KEY WEEDS CONTROLLED

Black henbane, bull thistle, Canada thistle (suppression), clover, locoweed, marestail, thistle (*see label for complete list*)

## Purestand® MAX

EPA REG. NO.	228-753
ACTIVE INGR.	metsulfuron (15.0%) + sulfosulfuron (60%)
FORMULATION	water-dispersible granular
CHEM. FAMILY	N-sulfonylurea
GROUP NO.	2
SIGNAL WORD	caution
PACKAGE SIZE	16 oz bag, 12 per case (6.5 - 20 treated acres per bottle)



With a unique combination of two powerful active ingredients, Purestand® MAX is a selective post-emergent herbicide designed specifically for bermudagrass pastures.

### KEY PERFORMANCE BENEFITS

- Selective, systemic herbicide with field proven safety to established bermudagrass
- No grazing restrictions – grazing can commence immediately after application
- No grazing restrictions for any livestock at certain application rates
- Controls or suppresses over 80 species of grass and broadleaf weeds
- Excellent tank-mix compatibility with a wide range of other herbicides

### KEY USES

Bermudagrass pastures, pasture and rangeland sites west of the Mississippi river

### KEY WEEDS CONTROLLED

Johnsongrass\*, marestail, nutsedge (purple, yellow), thistle (Canada\*\*,\*, musk\*\*, Russian\*\*) (*see label for complete list*)

\*Suppression or partial control, repeat applications may be necessary

\*\*See specific direction for special weed problems

## PREMIUM MIXTURES Convenience and power in one package

## E-2

EPA REG. NO.	228-442
ACTIVE INGR.	2,4-D amine (39.53%), dicamba acid (4.1%), fluroxypyr ester (5.9%)
FORMULATION	liquid
CHEM. FAMILY	phenoxyaliphatic acid, benzoic acid, pyridine
GROUP NO.	4
SIGNAL WORD	warning
PACKAGE SIZE	1 gal container (5 per case), 2.5 gal container (2 per case), 250 gal tote, bulk



The Nufarm IVM Range & Pasture flagship product, E-2 controls 240 labeled species. When tank-mixed with a bareground or soft residual partner, it can provide season-long control of resistant species such as kochia and horsestail.

### KEY PERFORMANCE BENEFITS

- Offers the power of three proven herbicides in one convenient pre-mixed formulation
- Low-odor formulation
- Can be used for selective weed control in desirable grasses, and also as a tank-mix partner with products like ProClipse™ for cleaning up emerged weeds or establishing bareground areas

### KEY USES

Conservation Reserve Program (CRP) land, industrial sites, non-crop areas, pasture, public utility areas, rangeland, recreational areas, rights-of-way

### KEY WEEDS CONTROLLED

Broadleaf weeds (*see label for complete list*)

## Veteran® 720

EPA REG. NO.	228-295
ACTIVE INGR.	2,4-D amine (24.58%), dicamba amine (12.82%)
FORMULATION	liquid
CHEM. FAMILY	phenoxy, benzoic acid
GROUP NO.	4
SIGNAL WORD	danger
PACKAGE SIZE	2.5 gal container (2 per case), 220 gal tote



Specially formulated to mix well, Veteran® 720 provides great results in hard water and as an invert emulsion. Controls a broad-spectrum of woody plants, brush and hard-to-control broadleaf weeds.

### KEY PERFORMANCE BENEFITS

- Dual action formulation provides excellent brush, vine and broadleaf weed control
- Ideal product for Chemical Weed Mowing (CWM)
- Comprehensive weed management and thistle control
- Selective weed control – tolerant to native grasses
- Tank-mix compatible with Patriot®, Razor® Xtreme and other herbicides for comprehensive weed management

### KEY USES

Industrial sites, non-crop areas, non-irrigation ditchbanks, pasture, rangeland, rights-of-way, utility line control

### KEY WEEDS CONTROLLED

Beech, multiflora rose, musk thistle, pigweed, puncturevine, ragweed, sagebrush, wax myrtle (*see label for complete list*)







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