Walnut
Almond
Pistachio
Solution Guide

nufarm



Evolving Ag

SOLUTIONS OVERVIEW

Use this grid for a quick overview of Nufarm solutions for your crop.

INSECTICIDES
Broad mite, carmine spider mite, citrus leafminer, citrus thrips, European red mite, leafminers, pear rust mite, thrips, western grapeleaf skeletonizer*
SELECTIVE HERBICIDES
Burclover, cheeseweed (malva), fiddleneck, groundsel, henbit, knotweed, lambsquarters, miner's lettuce, morningglory spp., mustard, nettle, nightshade, pigweed, purslane, redmaids, sowthistle
Cheeseweed (malva), groundsel, henbit, lambsquarters, marestail, morningglory spp., nightshade, pigweed, purslane, ragweed, Shepherd's purse
Chickweeds, dandelion, filaree, groundsel, henbit, Johnsongrass, lambsquarters, little mallow, London rocket, marestail/horseweed, mustard, nightshades, pigweeds, prickly lettuce, puncturevine, purslane, radish, redmaids, shepherd's-purse, sowthistle, waterhemps*
NON-SELECTIVE HERBICIDES
Chickweed, clover, crabgrass, dandelion, fleabane, foxtail, henbit, junglerice, kochia, lambsquarters, mallow, malva, marestail, morningglory, nutsedge, purslane, ragweed, ryegrass, spurge, vetch, woodsorrel*
Wide spectrum of emerged grass, broadleaf and sedge species*
FUNGICIDES & FUNGICIDES / BACTERICIDES
Various blights, mildews, leaf spots and other pathogens*
Collar rot, crown rot, root rot (*Phytophthora* spp.)*
Phytophthora spp.

*See label for complete list
**See label for specific crop
†Non-dormant applications: almond, pistachio and walnut (CA and AZ only)

PRODUCT	ALMONDS	PISTACHIOS	WALNUTS	RE-ENTRY INTERVAL	PRE-HARVEST INTERVAL
Abamex	✓	✓	✓	12 hours	21 days
Goal 2XL	✓[1]	✓[1]	✓[1]	24 hours	7-30 days**
GoalTender	✓[1]	✓[1]	✓[1]	24 hours	7-30 days**
Panther XLR	✓[1]	✓[1]	✓[1]	12 hours	60 days
Cheetah	✓	✓	✓	12 hours	14 days
Credit Xtreme	✓	✓	✓	4 hours	3 days
ChampION**	✓	✓	✓	48 hours	0 days
Ultra Flourish XHL	✓	✓	✓	48 hours	0 days
Phostrol	✓	✓	✓	4 hours	0 days

TREE NUT CALENDAR

Plan your growing season with Nufarm solutions for weed, insect and disease control.









DORMANT	BUD BREAK	PRAYER (WALNUT ONLY)	CATKINS (WALNUT ONLY)
Panther XLR	Cheetah	Panther XLR	ChampION^{++}
Cheetah	Credit Xtreme	Cheetah	Panther XLR
Credit Xtreme	Panther XLR	Credit Xtreme	Cheetah
ChampION^{++}		GoalTender*	Credit Xtreme
Goal 2XL			GoalTender*
GoalTender*			

*Non-dormant walnut use in CA, AZ only; directed applications may be used for cleanup and preharvest weed control programs as allowed by the label.







FULL BLOOM	PETAL FALL	NUT DEV.	HULL SPLIT	POST HARVEST
ChampION^{++}	ChampION^{++}	ChampION^{++}	Abamex	Panther XLR
Cheetah	Abamex	Ultra Flourish XHL	Cheetah	Cheetah
Credit Xtreme	Phostrol	Abamex™	Credit Xtreme	Credit Xtreme
Panther XLR	Cheetah	Phostrol	GoalTender*	GoalTender
GoalTender*	Credit Xtreme	Cheetah		Goal 2XL
	Panther XLR	Credit Xtreme		
	GoalTender*	Panther XLR		
		GoalTender*		

GROUP 6 INSECTICIDE

Abamex®

TARGET MITES AND OTHER TOUGH PESTS.

New low VOC, water-based formulation. Unique mode of action offers residual control against mites and leaf feeding beetles and worms, leafminers, psyllids and thrips. Abamex® Insecticide is labeled for tree fruit and nuts, grapes, western cotton, and other crops.

ACTIVE INGREDIENT

abamectin (2.0%)

BENEFITS OF ABAMEX

- Provides excellent control of mites and leafminers, Colorado potato beetles and other insects
- Flexible application timing in an easy-to-use liquid formulation
- Short 12-hour REI
- Rainfast within hours of application

KEY PESTS CONTROLLED See label for complete list

Two-spotted spider mites, European red mites, Pacific spider mites, strawberry spider mites

APPLICATION GUIDELINES

Apply using conventional ground equipment using a minimum of 40 gallons of water per acre and a horticultural spray oil at 0.25% v/v.

Best mite control is achieved when spray is deposited on new foliage growth. Use alternate modes of action if infestation requires multiple treatments.

- Re-entry interval: 12 hours
- Pre-harvest interval: 21 days
- Maximum applications per year: no more than 2 applications of 20 oz or less; maximum 40 oz per growing season

Abamex is an EPA Restricted-Use Pesticide. Always read and follow label directions.
See label for complete directions for use.

GROUP 10 HERBICIDE

Cheetah®

SATISFACTION: CLEANER. QUICKER. CHEETAH®.

Cheetah® Herbicide utilizes a novel mode of action to better protect your high-value TNVV crops from weed competition including glyphosate-resistant weeds. This fast non-selective herbicide will let you focus more on profitability and less on weeds.

ACTIVE INGREDIENT

glufosinate (24.5%)

BENEFITS OF CHEETAH

- Fast non-selective control of tough grass, sedge, and broadleaf weeds
- Best glyphosate alternative, offering broad-spectrum weed control
- Directed sprays provide excellent control and crop safety
- Controls glyphosate-resistant weeds without special handling restrictions
- For extended residual control, tank mix Panther® XLR with Cheetah

KEY WEEDS CONTROLLED See label for complete list

Chickweed, clover, crabgrass, dandelion, fleabane, foxtail, henbit, junglerice, kochia, lambsquarters, mallow, malva, marestail, morningglory, nutsedge, purslane, ragweed, ryegrass, spurge, vetch, woodsorrel

APPLICATION GUIDELINES

Apply 48 to 82 fl oz/A as determined by weed size.

Apply as a broadcast, banded or spot treatment for tree nuts.

Apply in 20 to 40 gal/A of water to ensure thorough coverage.

Apply using nozzles and pressures that generate a medium (about 250 to 350 microns) spray droplet. Only apply to mature, brown, callused bark. (Never spot spray or direct spray tree trunks).

- Re-entry interval: 12 hours
- Pre-harvest interval: 14 days
- Spray interval: 14 days
- Maximum applications per year: 246 fl oz/A (4.5 lbs ai/A)
- Maximum rate per application: 82 fl oz/A (1.5 lbs ai/A)

See label for complete directions for use.

GROUP 9 HERBICIDE

Credit® Xtreme

POWERFUL WEED CONTROL.

Credit® Xtreme Herbicide from Nufarm delivers powerful performance. The rapid uptake leads to quicker activity and rainfastness, so you can apply it with confidence. Credit Xtreme has an acid equivalent content of 4.5 lbs glyphosate per gallon and treats 50% more acres than many products which only have 3.0 lbs a.e. per gallon.

ACTIVE INGREDIENT

glyphosate: isopropylamine salt (30.94%), potassium salt (22.99%)

BENEFITS OF CREDIT XTREME

- Contains proprietary Dual-Salt Technology™; delivers excellent crop safety
- Takes on the toughest weeds with quick burndown and complete control
- Excellent tank-mix compatibility, even in hard water environments
- Fast translocation activity and rainfastness
- Treats more acres per tote than many alternative glyphosate products

KEY WEEDS CONTROLLED See label for complete list

Many tough weeds like lambsquarters and velvetleaf

APPLICATION GUIDELINES

Apply in middles (between rows of trees) or strips (within rows of trees) for weed control or perennial grass suppression in established tree nut groves. It may also be used for site preparation prior to planting or transplanting.

Apply 11 fl oz to 3.3 qts per acre according to the label. Utilize rates at the higher end of the rate range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

- Re-entry interval: 4 hours
- Pre-harvest interval: 3 days
- Maximum applications per year: 7 qts/A

See label for complete directions for use.

GROUP 14 HERBICIDE

Goal® 2XL

SCORE WITH THE PRE- AND POST-POWER OF GOAL® 2XL.

Goal® 2XL gives you “extra long” control, up to 8 months, on dozens of broadleaf and grasses, making it a proven winner in your residual herbicide program. It works on contact and forms a lasting soil barrier to block emerging weeds for extended post- and pre-emerge control.

ACTIVE INGREDIENT

oxyfluorfen (22.3%)

BENEFITS OF GOAL 2XL

- Proven pre- and post-emerge control
- Broad crop label and flexible application timings
- Long-lasting residual activity
- Excellent tank mix partner

KEY WEEDS CONTROLLED See label for complete list

Burclover, cheeseweed (malva), fiddleneck, groundsel, henbit, knotweed, lambsquarters, miner’s lettuce, morningglory spp., mustard, nettle, nightshade, pigweed, purslane, redmaids, sowthistle

APPLICATION GUIDELINES

For dormant application in tree nuts: apply as a preemergence broadcast treatment at 5 to 6 pints per acre, or at 5 to 8 pints per acre in a banded application.

For non-dormant application in pistachios, walnuts and almonds (CA and AZ only): apply as a preemergence broadcast treatment at 5 to 6 pints per acre; or as a postemergence application at 1 to 6 pints per acre depending on weed size.

DO NOT apply GoalTender within 7 days of harvest of pistachios and walnuts, and within 15 to 30 days of harvest of almonds (see label for further details).

- Re-entry interval: 24 hours
- Maximum applications per year: 6 pts/A (1.5 lb ai/A)

See label for complete directions for use.

GROUP 14 HERBICIDE

GoalTender®

STAY UNDEFEATED WITH GOALTENDER.

GoalTender® herbicide is a water-based formulation that holds well to soil and performs at lower rates with less environmental load. It delivers burndown of existing broadleaf weeds and provides long-lasting pre- and post-emergence activity on dozens of broadleaf weeds and grasses, making it ideal for residual herbicide programs in tree nuts. GoalTender is an excellent choice for VOC requirements compared to higher VOC formulations.

ACTIVE INGREDIENT

oxyfluorfen (41%)

BENEFITS OF GOALTENDER

- Proven pre- and post-emerge control
- Long-lasting residual activity
- Holds well to soil with low volatility
- Low VOC meets California requirements
- Water-based formulation resulting in less environmental load

KEY WEEDS CONTROLLED See label for complete list

Barnyardgrass, crabgrass, goosegrass, groundsel, henbit, kochia, lambsquarters, marestail, morningglory *spp.*, nightshade, pigweed, Pennsylvania smartweed, shepherd's-purse

APPLICATION GUIDELINES

For dormant application in tree nuts: apply as a preemergence broadcast treatment at 2.5 to 3.0 pints per acre, or at 2.5 to 4 pints per acre in a banded application.

For non-dormant application in pistachios, walnuts and almonds (CA and AZ only): apply as a preemergence broadcast treatment at 2.5 to 3.0 pints per acre; or as a postemergence application at 0.5 to 3 pints per acre depending on weed size.

DO NOT apply GoalTender within 7 days of harvest of pistachios and walnuts, and within 30 days of harvest of almonds.

- Re-entry interval: 24 hours
- Retreatment interval: 14 days
- Maximum applications per year: 3 pts/A (1.5 lb ai/A)

See label for complete directions for use.

GROUP 14 HERBICIDE

Panther® XLR

PANTHER XLR: THE POWER TO DO MORE.

Panther® XLR herbicide combines all labeled Panther SC and Tuscany® SC crops into one flexible label, bringing trusted performance to orchards, vineyards and other specialty crops. It blocks more than 60 tough weeds with long-lasting residual control, stays where you put it and has low leaching or volatilization potential. For proven crop safety and dependable control in various weather conditions, count on Panther XLR.

ACTIVE INGREDIENT

flumioxazin 41.4%

BENEFITS OF PANTHER XLR

- Controls a broad spectrum of annual broadleaf and grass weeds, including most broadleaf weeds resistant to glyphosate
- Convenient liquid formulation makes mixing and loading faster and easier
- Offers long-lasting residual control to keep fields clean
- Enhanced speed of control on a broader weed spectrum in labeled burndown programs

KEY WEEDS CONTROLLED See label for complete list

Carpetweed, chickweed, coffee senna, dandelion, evening primrose, Florida beggarweed, hemp sesbania, henbit, jimsonweed, kochia, lambsquarters, marestail, mustard, nightshade, pigweed, puncturevine, shepherd's-purse, spurred anoda, Venice mallow, waterhemp, wild poinsettia

APPLICATION GUIDELINES

Apply 6 to 12 fluid ounces per acre as a broadcast preemergence treatment.

The preferred application timing for Panther XLR is in the fall to maximize the potential for rainfall to activate and set the herbicide. DO NOT apply over the top of crop or allow spray to come in contact with crop as a result of application or drift.

Use shielded application equipment when applying after bud break through final harvest and ensure there is no contact with non-target vegetation, foliage or nuts.

Do not apply to trees established less than one year, unless protected from spray contact by non-porous wraps, grow tubes, paint or waxed containers.

- Pre-harvest interval: 60 days
- Rainfast: 1 hour
- Spray interval: 60 days
- Maximum applications per year: 12 fl oz/A

See label for complete directions for use.

GROUP M1 FUNGICIDE

ChampION®++

SMALLEST COPPER PARTICLES, MORE COMPLETE CONTROL.

ChampION++® Fungicide/Bactericide* has the smallest, most consistent copper ions (particles) of any WG copper formulation. The result: better coverage and better disease control. And, ChampION++ delivers all that with less environmental load than high dose copper products.

ACTIVE INGREDIENT

copper hydroxide 46.1% (30% metallic copper equivalent)

BENEFITS OF CHAMPION++

- Small particle size results in excellent coverage and disease protection
- Stable WG formula pours easily and disperses quickly
- High density copper product means lower use rates and smaller pack sizes
- Controls plant pathogenetic fungi and bacteria (non-public health bacteria)
- OMRI Listed® for organic crop production

KEY DISEASES CONTROLLED See label for complete list

Various blights, leaf spots and other pathogens

APPLICATION GUIDELINES

Apply 0.5 to 1.75 lbs/A starting when plants are 2 to 6 inches high. Apply the lower rate in those locations where disease is light and the higher rate where disease is severe. Tank mixing this product with other registered potato fungicides will improve disease control under severe disease conditions.

- Re-entry interval: 48 hours
- Spray interval: 5-14 days
- Maximum applications per year: 28 to 107 lbs/A

See label for complete directions for use.
* Non-public health bacteria.

GROUP 4 FUNGICIDE

Ultra Flourish® XHL

PROTECT AND IMPROVE WITH HIGHER LOAD.

Ultra Flourish® XHL brings the power of mefenoxam in a higher-load formulation and provides protection across many crops against harmful soil-borne diseases caused by *Pythium* and *Phytophthora* species. Its systemic mode of action prevents spore production, inhibits mycelial growth of fungus and improves crop health and vigor.

ACTIVE INGREDIENT

mefenoxam (45.3%)

BENEFITS OF ULTRA FLOURISH XHL

- 2X the strength as original Ultra Flourish for ease of application
- Highly active fungicide formulation
- Can be applied in combination with liquid fertilizers or impregnated into dry fertilizers
- Excellent crop safety
- Provides efficient control of foliar and soil diseases in a wide variety of crops

KEY DISEASES CONTROLLED See label for complete list

Collar rot, crown rot, phytophthora root rot

APPLICATION GUIDELINES

Apply at 4 pt/A or 1.5 fl oz/1000 ft^2.

Use as a soil spray (broadcast, band, or irrigation) under the tree canopy or through irrigation water (drip or micro-sprinkler) to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings).

In California, do not apply this product to newly planted trees within 45 days of planting.

- Re-entry interval: 48 hours
- Pre-harvest interval: 30 days
- Maximum applications per year: 3

See label for complete directions for use.

GROUP 33 FUNGICIDE

Phostrol®

SYSTEMIC ACTIVITY FOR EFFECTIVE DISEASE CONTROL.

Phostrol® Agricultural Fungicide is one of the few phosphorous acids labeled as a fungicide. A neutral pH requires no buffering and allows integration with many other fungicides. These traits allow for compatibility in tank-mixes, making Phostrol an excellent fit for any disease management program.

ACTIVE INGREDIENT

mono- and di-basic sodium, potassium, and ammonium phosphites (53.6%)

BENEFITS OF PHOSTROL

- Provides prevention and control of a broad spectrum of diseases
- Clear, virtually odorless formulation
- No buffer necessary

KEY DISEASES CONTROLLED See label for complete list

Phytophthora spp.

APPLICATION GUIDELINES

Phytophthora: Apply first application with first irrigation in the spring, with subsequent applications at 3 to 5 month intervals as needed.

- Re-entry interval: 4 hours

See label for complete directions for use.

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Naxypro® DUO

RESULTS WORTH BRAGGING ABOUT

Don't let pests or big-brand chlorantraniliprole eat away your bottom line.

Naxypro® DUO Insecticide controls lepidoptera pests, plus insects, with the firepower of leading chlorantraniliprole formulas and bifenthrin. Stop damage from yield-robbing naval orangeworm, peach twig borer and codling moth and sustain broad spectrum control for up to three weeks. **It's open season, win with Naxypro DUO.**

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Naxypro® DUO is pending EPA registration in California.

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Abamex® is an EPA Restricted-Use Pesticide. Always read and follow label directions.

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