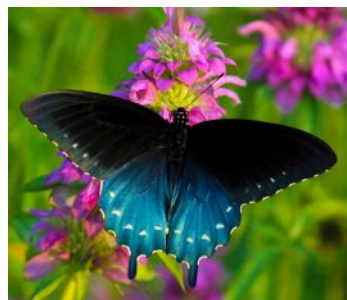




DLF
INTERNATIONAL SEEDS

S E E D S & S C I E N C E



Specialty Products

Taking Care of the Land - The Essence of Good Stewardship

Cover crops play an important role in successful and sustainable gardening by:

- *Improving soil quality*
- *Increasing organic matter*
- *Reducing erosion*
- *Retaining soil moisture*
- *Reducing soil compaction*
- *Suppressing weeds*
- *Supplying nutrients*
- *Scavenging nutrients*



MAXIMIZE YOUR SOIL'S POTENTIAL NATURALLY



COVERMAX™

- WEED CONTROL
- RECYCLING NUTRIENTS
- NITROGEN CAPTURE
- SOIL EROSION



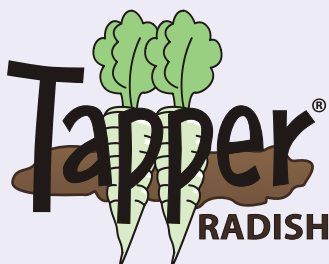
BUILDING HEALTHY SOILS

Net Wt. 5 lbs (2.2 kg)

Nature's "Bio-Drill" Breaks Compacted Soils Naturally

Tapper® radish is a hard-headed little wonder that can be used to naturally reduce soil compaction. Benefits include:

- *Increases organic soil matter*
- *Traps nutrients for future crops*
- *Reduces soil erosion*
- *Facilitates no-till planting*
- *Increases productivity*
- *Suppresses weeds*
- *Retains soil moisture*
- *Improves soil tilth and quality*
- *Breaks through compacted soils*



Low Maintenance for Natural Areas

Companion® is a low maintenance grass cover crop that was specifically formulated for use in orchards, vineyards and tree plantations. Benefits include:

- *Low, slow growth*
- *Recovers rapidly*
- *Only requires 1-3 mowings per year*
- *Crowds out weeds including thistles*
- *Strong wear and vehicle tolerance*
- *Requires minimal water and fertilizer*



“The Nematode Slayer” - A Natural Fumigant

Braco white mustard is a useful cover crop in vineyards, annual crop rotations, and home gardens as a winter cover. In addition to producing large quantities of green manure, Braco has been shown to suppress weed seeds, nematodes and other soil borne organisms. Benefits include:

- *Releases a chemical called thioglycoside when tilled into soil*
- *Works as a fumigant to suppress troublesome nematodes*
- *Increases future yields*
- *Reduces occurrence of weeds*
- *Creates organic nutrients*



*Plant as a cover crop – till as a green manure
It's Nature's Fumigant*

Rough Summary Testimonial of Braco White Mustard Trial

Soil samples for nematode testing were pulled and sent to the Oregon State University Plant Clinic just after summer planting the Braco. Results were: **1600** root lesion (*Pratylenchus thornei*) and **235** pin nematode per quart of soil. Six weeks after turning the Braco under, another sample was pulled on September 20th and sent to the OSU Plant Clinic. Results were **0** root lesion and **2** pin per quart of soil. ***“This is a huge difference!”*** says Al Short, manager of Wilbur-Ellis Company Seed Division in Madras, Oregon who sponsored the trial.



1. Allow 60-75 days growth before cutting



2. Flail or chop to reduce particle size



3. Incorporate plant material into the soil

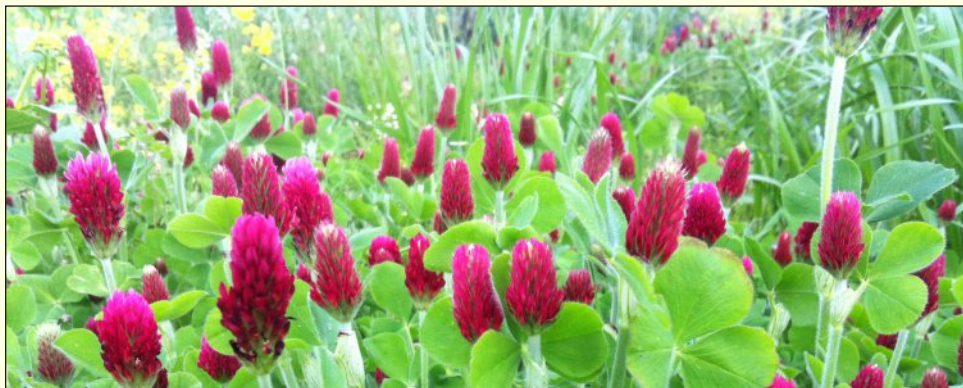
Adaptation Chart

5

| Cover Crop Varieties | | Hardy thru Zone | Heat Tolerant | Drought Tolerant | Fights Compaction | Nitrogen Source | Nutrient Scavenger | Erosion Control | Organic Matter | Weed Suppression | Bio Fumigant | Cover Crop Component | Wildlife Component | Best Time to Plant |
|----------------------|----------------|-----------------|---------------|------------------|-------------------|-----------------|--------------------|-----------------|----------------|------------------|--------------|----------------------|--------------------|--------------------|
| BRASSICAS | Tapper Radish | 6 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LS, EF |
| | Braco Mustard | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | SP, LS |
| | Turnip | 6 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LS, EF |
| | Rapeseed | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | F, SP |
| LEGUMES | Alfalfa | 5-8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LSU, EF |
| | Crimson Clover | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LS, ESU |
| | Microclover | 4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LW, E-LSP, EF |
| | Sub. Clover | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LS, EF |
| | Fava Bean | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | EF, LSP |
| | Field Peas | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | F, ESP |
| | Hairy Vetch | 4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | EF, ESP |
| NON LEGUMES | Buckwheat | NFT | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | SP-LSP |
| | Chicory | 3-9 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | F, SP |
| | Oats | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LSU, ESP |
| | Rye | 8 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LSU, F |
| | Sorghum | NFT | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LSP, ES |
| | Triticale | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | SP, F |
| | Wheat | 4 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | LSU, F |
| | Barley | 7 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | F, W, SP |

● = Excellent ● = Very Good ● = Good ● = Fair ● = Poor

NFT= Not Frost Tolerant E= Early L= Late SP= Spring SU= Summer F= Fall W= Winter



Crimson Clover

Turf's Tiny Hero – Nature's Natural Solution

Microclover® is a unique plant developed exclusively by DLF breeders. It is a very tiny white clover featuring all the benefits of traditional clover and more. Microclover® is gaining in popularity around the world as a natural solution for a dense, healthy turf in areas requiring low maintenance. Benefits include:

- *Eco-friendly*
- *“Spoon feeds” nitrogen to the grass*
- *Produces healthy, dense turf*
- *Evenly spread growth - minimal flowers*
- *Crowds out and prevents weeds*
- *Tolerates very low mowing heights*
- *Creates a dark green turf*
- *Requires no chemicals or herbicides*



Ellen getting her fill of microclover at the zoo's elephant habitat in Little Rock, Arkansas... a true test of wear tolerance!


microclover®
by DLF-TRIFOLIUM
www.microclover.com



Never Fertilize Again!

The facts are in..

Summary of data provided by **The Ohio State University** from publication: *Integrating Microclover® with Turfgrass to Develop a More Environmentally Sustainable Turfgrass Ecosystem*



Paraphrased highlights:

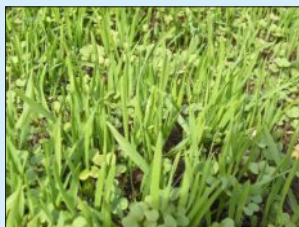
- The inclusion of Microclover® with both Kentucky bluegrass and tall fescue exhibited **better overall color quality** than either species alone
- Tall fescue with Microclover® tends to have a “**harmonious**” existence
- Kentucky bluegrass with Microclover® had **significantly greater tissue nitrogen** than all other treatments

- **Eco-friendly**
- **Nature’s fertilizer**
- **Easy to grow**
- **Uses less water**
- **Regionally blended for optimal results**
- **Premium quality designed for rich color and dense turf**
- **Perfect for home lawns, parks, low maintenance areas**



Seed that's Purely Organic "From the Ground Up"

DLF International Seeds is the North American leader in supplying organic proprietary forage seed. With a decade of organic seed experience, DLF continues to respond to the growing organic market. The line-up of forage and cover crop seed is the broadest in the field. As a certified organic handler, DLF is able to provide certified organic seed mixtures, along with single varieties, to their distributors.



DLF Trifolium – the world's largest producer of organic forage grass & clover seeds
www.dlfororganic.org



DLF ORGANIC®



DLF Organic Forage

- Annual Ryegrass
- Perennial Ryegrass
- Intermediate Ryegrass
- Orchardgrass
- Timothy
- Festulolium
- Tall Fescue
- Rye Grain
- Buckwheat
- Wheat
- Alsike clover
- Meadow Fescue
- Red Clover
- White Clover
- Crimson Clover
- Cover Crops
- Forage Peas
- Forage Radish
- Alfalfa
- Triticale
- Oats
- Vetch



"The green solution!"®

A Natural Wildlife Attractant Birds and Animals Love

DLF Wildlife Mix is designed to attract deer and other wildlife. Large numbers of deer and other wildlife have been documented eating from the lush food plots. Studies by wildlife biologists confirm that deer and other animals frequent *Wildlife Mix* more often than naturally occurring food sources, especially in the fall when native species are dormant. Benefits include:

- *Protein-rich food source*
- *Rapid establishment*
- *Highly palatable forage*
- *Retains nutritional value after frost*
- *Excellent re-growth potential*
- *Tolerates very low mowing heights*



- Especially for*
- Deer and Elk
 - Wild Game Birds
 - Wildlife Animals

PROTEIN-RICH NUTRITION with FAST ESTABLISHMENT & EXCELLENT REGROWTH

WILDLIFE MIX is designed to attract deer and other wildlife. It supplements the available forage, improves diet, increases growth and supports higher animal numbers.

A Beautiful and Beneficial Addition to all Landscapes

DLF Wildflower Mixtures— are comprised of a variety of delightful wildflowers designed to bloom spring, summer and fall. The eye-catching blooms will be many different sizes, shapes and colors which attracts hummingbirds, butterflies and beneficial insects. Other benefits include:



Beautifies



Creates habitat



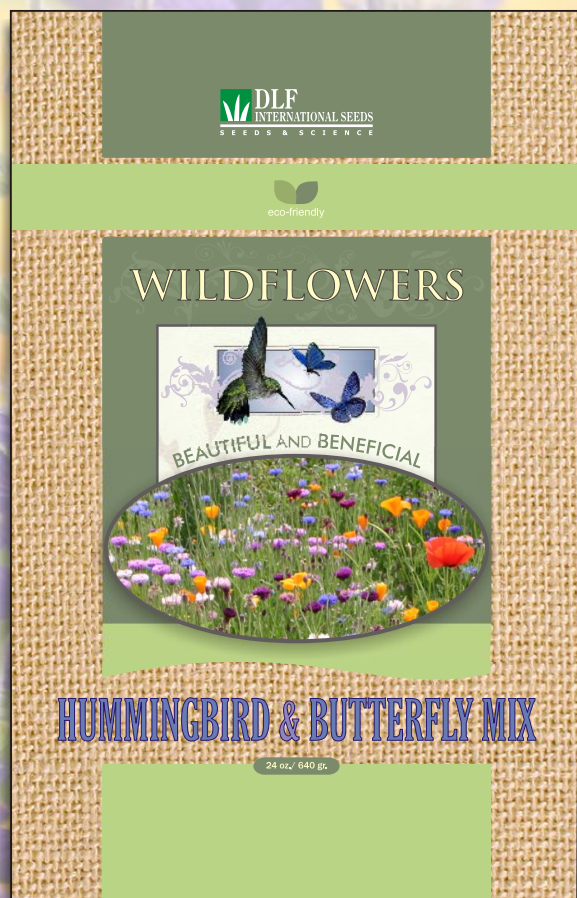
Prevents Erosion

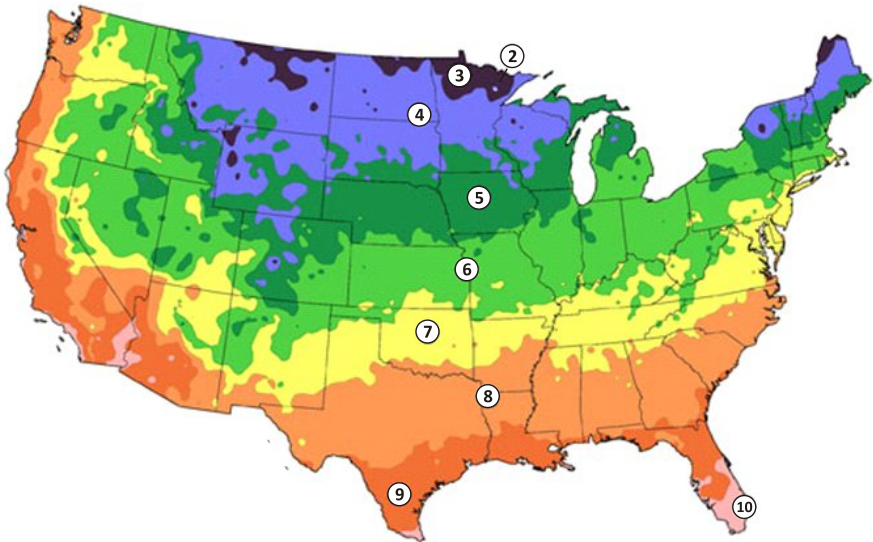


Perfect for bouquets



Facilitates pollination of adjacent fruits & vegetables





Zone Average Annual Low

| | | | |
|---|----------------|----|--------------|
| 2 | -40°F to -50°F | 7 | 10°F to 0°F |
| 3 | -30°F to -40°F | 8 | 20°F to 10°F |
| 4 | -20°F to -30°F | 9 | 30°F to 20°F |
| 5 | -10°F to -20°F | 10 | 40°F to 30°F |
| 6 | - 0°F to -10°F | | |



Pacific Northwest Wildflower Mix



DLF INTERNATIONAL SEEDS

DLF International Seeds is proud to be the market leader in developing turf, forage and clover varieties for today and the future. With over 10,000 research plots in Oregon and Kentucky, and ongoing cooperative work with universities and plant breeders throughout the world, DLF International Seeds has been successfully breeding the highest rated varieties in the nation. Headquarters for DLF International Seeds are strategically located in the Pacific Northwest where over half the world's cool season grasses are produced.

The DLF Trifolium Group, of which DLF International Seeds is a member, is the world's largest producer and marketer of grass, clover and specialty seeds. Annually marketing over 275 million pounds of seed, the Group's diversified research and breeding programs are aligned to work cooperatively with global production and international distribution alliances. These partnerships facilitate DLF's goal to supply superior turf and forage seed for all venues of use around the world.

“The green solution!”[®]