



**FAST-GROWING  
WARM SEASON  
LEGUME FOR...**

- Organic Growers
- Non-GMO
- Vegetables
- Winter Wheat
- Sugar Cane
- Summer grazing
- Goats thrive on Global Sunn™
- Fallow soil in warm conditions

## Global Sunn™ –High Value Cover Crop and Rotation/Break Crop



### *For Vegetables, Strawberries and Organic Growers*

Global Sunn™ is a good break crop between vegetable and strawberry crops. It does not host root-knot nematodes (*Meloidogyne spp.*) and is shown to help reduce nematode pressure on cash crops. It is a fast grower. In 45-60 days it will produce large amounts of biomass, helping add organic matter to loose, sandy soils, while generating significant amounts of soil N.

Global Sunn™ brand sunn hemp has many uses and a wide range of benefits.

- Good natural N producer in warm, dry conditions
- Reduces root knot nematode pressure
- Vigorous growth out-competes most weeds
- Biomass production increases organic matter
- Helps prevent soil erosion
- Improves soil quality, helps relieve compaction
- Controlled high-protein grazing (non-equine)
- For wildlife plots seeded in early summer



### *Following Winter Wheat on Fallow Ground*

Global Sunn™ is ideal as a cover crop planted following winter wheat and other small grains harvested in early summer. Once established, it grows rapidly, produces significant amounts of N, and helps prevent soil crusting, wind and water erosion. As a tropical legume, it tolerates dry, hot conditions.

**NITROGEN** Global Sunn™ has added 140+ lb/ac (160+ kg/ha) of actual nitrogen per acre to the soil when grown for 60-70 days, then incorporated in test plots.

**ORGANIC MATTER** Global Sunn™ can produce as much as 2.5 tons/ac (5.6 mt/ha) of air-dry weight within 60-70 days if growing conditions are favorable.

**NEMATODES** Global Sunn™ (*Crotalaria juncea*) is resistant to root-knot nematodes (*Meloidogyne spp.*). Research shows root-knot nematode populations reduced, likely a result of sunn hemp being an unsuitable host.



### *Between Sugar Cane Plantings*

A fast growing tropical legume, Global Sunn™ is well suited for use after sugar cane fields are terminated due to drop in production. It recharges soil with N and the biodiversity helps break disease cycles. The dense, tall growth habit helps suppress weed growth during fallow.

PRODUCED BY



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## SEEDING TIPS

- **Drilling:** 7.5" (19 cm) row width: 15-20 lbs/ac (17-22 kg/ha)
- **Broadcast / Aerial:** Not recommended
- **Precision Planting: 15"** (38 cm) row width, with 4" (10 cm) in-row spacing: 9 lb/ac (10.2 kg/ha)
- **Precision Planting: 30"** (76 cm) row width with 4" (10 cm) in-row spacing: 5 lb/ac (5.7 kg/ha). Recommend Kinze Brush Meter with Backing Plate, 60-Cell Milo Plate [Red] set to 100,000 seed population.
- Higher seeding rates should be used if the crop is to be incorporated in less than 60 days (35 to 45 days) or if heavy weed pressure is expected.

## CONTROL

Terminate when flowers are 30% present and freezing conditions are not expected. Once flowering begins stems become fibrous and can be difficult to manage.

In warm climates, terminate by mowing when the stem is still succulent and flowering has just begun. Incorporate into the soil or allow to dry as mulch.

When terminating with herbicide application, roll and incorporate into soil, or allow to dry as mulch.

When killed by frost or freeze, stems become hollow and brittle over winter and will not "wrap" or inhibit seeding equipment in spring.

## INOCULATION

Inoculate seed with cowpea-type or peanut inoculant to ensure effective nodulation. Some soils may not contain the correct *Rhizobium* strains.

## Weed Suppression



Global Sunn™ is a rapid grower that out-competes most weeds, and inhibits weed growth with dense shading. It can reach 4 ft. (1.2 m) in 60 days in favorable conditions, and 9 ft. (1.8 m) in 70-90 days.

## Seed Quality



Seeds are about 0.25 in. (0.5 cm) long, with approximately 15,000/lb (30,000 to 35,000/kg). Germination is typically 91-95%. Seeds and forage of sunn hemp were nontoxic in laboratory tests and feeding trials.

## Battling Glyphosate-Resistant Palmer Amaranth



Palmer Amaranth (pigweed) is an increasingly insidious weed problem in many parts of North America, having become resistant to glyphosate. It is a prolific seed producer and difficult to control. Global Sunn™ planted following corn silage harvest can help suppress



pigweed by shading. Pigweed can grow from 2 to 3 inches per day. Global Sunn™ can grow even faster. While helping suppress pigweed infestation, the production of biomass, N, and soil cover are among the additional benefits that help improve soil quality.

## Nematode Suppression



"Sunn Hemp (*Crotalaria juncea*), used as a cover crop, was suppressive to root-knot nematodes as well as reniform nematodes." \*

\* Wang, K.-H., B. S. Sipes, and D. P. Schmitt. 2002. *Crotalaria juncea* as a cover crop for nematode management: A review. *Nematologica* 32:35-57.

## Easy to Manage



A tropical legume, Global Sunn™ dies at first frost. In warm climates, mowing or rolling at first signs of flowering is effective control. Herbicide may be used. Residue can be left as mulch or incorporated as green manure.

\* Some *Crotalaria* species could contain poisonous alkaloids in certain conditions, which can be toxic to animals.

## Nitrogen Production



In good conditions, Global Sunn™ produces a significant amount of N within 60 days when used as a cover crop, and treated with cow-pea type inoculant when planted.

### DISCLAIMER

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