Stock Plant/Plug Production Protocols for Kamanomano (Cebrhus agrimonioides var. agrimonioides)

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Kamanomano
(*Cenchrus agrimonioides var. agrimonioides*)

Low growing, perennial grass

Endemic to Oahu, Lanai and Maui

Dry rocky slopes or ridges, 1,900 to 2,500 ft above sea level

USDA/NRCS selection produces non-viable seeds, hence vegetatively propagated
Kamanomano
*(Cenchrus agrimonioides var. agrimonioides)*

Successfully used for erosion control on Kahoolawe

Low growth habit and drought tolerance: ideal roadside re-vegetation species

Federally endangered: only few plants on Maui and Oahu
Stock plant establishment protocol for kamanomano plug production
Step 1
Site preparation

Very important for success of plantings!

Clear site of trash and other debris
Step 1
Site preparation

Irrigate to promote weed growth

Flush and kill the weeds for at least 3 to 6 months before planting
Step 2
Prepare kamanomano plugs

Collect 8-inch long tip cuttings (flower spikes removed) from healthy stock plants

Keep cuttings moist and cool, away from direct sunlight
Step 2
Prepare kamanomano plugs

Prepare at 1:20 dilution of Dip ‘N Grow rooting solution

Mix 1 part Dip ‘N Grow with 19 parts of water
Step 2
Prepare kamanomano plugs

Soak cuttings in the 1:20 Dip ‘N Grow solution overnight

Place a heavy object on top of the cuttings to fully submerge them
Step 2
Prepare kamanomano plugs

Plant in dibble tubes filled with potting media

Allow to root for 45 days under overhead irrigated moist conditions

Note: Leaves will dry up but will eventually re-sprout from stems
Step 3
Transplant plugs

Install drip irrigation 8 to 10 ft between rows

Plant at 3 ft in rows

Fertilize with 100 lbs N/acre to stimulate rapid growth

Apply over transplants: Ronstar® G (granular, 100lbs/acre)
Step 4
Weed control during establishment

45 days after planting, do light handweeding of plots

Reapply Ronstar® G (granular, 100lbs/acre) to control germinating weed seeds
Step 5
Harvesting of stem cuttings

Stolons or tip cuttings can be harvested anytime once plants have established.

Conduct mowing/ratooning once a year to encourage vigorous growth.

Topdress with compost to encourage rooting of exposed stolons.
Mahalo!

Questions?