

MontanaGrow® is a natural silicon mined from an ancient deposit of non-crystalline volcanic tuff comprised of rich amorphous content containing over 76% SiO₂ and trace minerals. MontanaGrow® powers your garden by reacting dynamically with other minerals and nutrients to address critical soil and plant deficiencies with a moderate pH that does not burn plants.

MontanaGrow® is compatible with most insecticides, fungicides, and herbicides and works well with fertilizers, enhancing their efficiency. Top dress MontanaGrow® directly to the soil surface, mix into the soil, and/or water-in after application. Blend MontanaGrow® with potting soils, compost, humus, manures, beneficial soil microbe products and/or use in compost tea productions. Soil testing is recommended to help determine and verify proper application rates.

MontanaGrow® is available in amendment and granules form, both provide immediate and long term release of plant available silicon. The amendment is a screened -10 mesh blend of powder and particles that is ideal for blending, container gardening, and hand application. Granules contain 72% SiO₂ and are available in small (100 SGN) and medium (240 SGN) sizes ideal for agriculture and turf application. From homes and gardens to lawns and farms, MontanaGrow® can easily incorporate into your existing nutrient package for all your growing needs. See application guidelines below.

Container Gardening

Directions for Use:

Container gardeners should mix the amendment into the grow media initially and then every 7-14 days re-apply as a top dress according to the size of container you are using. For optimal results refer to the container gardening guidelines below.

Blending Rates:

1 Gallon:

Low: 2 tbsp - Med: 4 tbsp - High: 1/3 cup

2 Gallon:

Low: 1/4 cup - Med: 1/2 cup - High: 3/4 cup

3 Gallon:

Low: 1/3 cup - Med: 2/3 cup - High: 1 1/3 cups

5 Gallon:

Low: 2/3 cup - Med: 1 1/3 cups - High: 2 cups (1 lb)

7 Gallon: (approximately 1 cubic ft)

Low: 1 cup (1/2 lb) - Med: 2 cups (1 lb) - High: 3 cups (1 1/2 lbs)

10 Gallon:

Low: 1 1/2 cups (3/4 lb) - Med: 3 cups (1 1/2 lbs) - High: 5 cups (2 1/2 lbs)

15 Gallon:

Low: 2 1/2 cups (1 1/4 lbs) - Med: 5 cups (2 1/2 lbs) - High: 8 cups (4 lbs)

Top Dress Rates:

1 Gallon:

Low: 1/2 tsp - Med: 1 tsp - High: 1 1/2 tsp

2 Gallon:

Low: 1 tsp - Med: 2 tsp - High: 1 Tbsp

3 Gallon:

Low: 1 1/2 tsp - Med: 1 Tbsp - High: 2 Tbsp

5 Gallon:

Low: 1 Tbsp - Med: 2 Tbsp - High: 4 Tbsp

7 Gallon: (approximately 1 cubic ft)

Low: 2 Tbsp - Med: 4 Tbsp - High: 6 Tbsp

10 Gallon:

Low: 3 Tbsp - Med: 1/3 cup - High: 3/4 cup

15 Gallon:

Low: 1/2 cup - Med: 1 cup - High: 1 1/2 cups

Ornamentals and Shrubs

Directions for Use:

For home ornamentals and shrubs, apply 1/2 lb. to 1 lb. to the soil around each plant and lightly till or water/irrigate into soil. For optimal results refer to the suggested application guidelines below.

Suggested Application Rates:

Low:

Blending with media: 4 lb. per cubic yd
Plant Beds/Topical: 4 lb. per 1000 sq. ft.

Medium:

Blending with media: 6 lb. per cubic yd
Plant Beds/Topical: 6 lb. per 1000 sq. ft.

High:

Blending with media: 8 lb. per cubic yd
Plant Beds/Topical: 8 lb. per 1000 sq. ft.

Turf and Lawn

Directions for Use:

For normal lawns broadcast 2-3 lbs/1,000 sq ft. of medium granules once a year, or in the spring and fall for optimal results. Blend with other fertilizers for easy one pass application to help the environment by preventing runoff. For new lawns till or water/irrigate into soil before planting seed or laying sod.

Broadcast Application Rates

Low:

2 lbs/1000 sq ft. (0.50 lb. N)

Medium:

4 lbs/1000 sq ft. (0.75 lb. N)

High:

6 lbs/1000 sq ft. (1.0 lb. N)

Seeding Grass: 4-6 lbs/1,000 sq ft

Field Crops

Broadcast Directions:

Begin with rate of 100-150 lbs/acre broadcast and make adjustments up or down based on soil samples and value of the crop. For high value crops, like hemp, broadcasting 200-300 lbs/acre before planting and re-applying 100 lbs per acre (focused at the base of the plant) every 7-21 days is suggested. This can be adjusted based on the size of the plant, abiotic and biotic stress levels, or heavy metal issue that the crop is experiencing.

Banding Directions:

75-100 lbs/acre banded.

Row Directions:

50 lbs/acre for row application.

Trees & Orchards

Directions for Use:

For small or home orchards apply annually to trees and into ground surface under the drip line at the suggested rates below.

Smaller than 10" Diameter:

1-5 lbs

10" - 20" Diameter:

5-15 lbs

20" Plus Diameter:

15-40 lbs

Transplanting:

Apply and mix 3-5 lbs with soil in bottom of holes prior to transplanting and 1-5 lbs into ground surface at base once planted.

Old or Blighted Trees:

Double the application for decline or



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Notice Of Warranty

MontanaGrow warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. In no case shall MontanaGrow be held liable for consequential, special, or indirect damages resulting from the use or handling of product.