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Johnny's 512 Mix is a complete, compost-based growing medium for soil blocks, trays, and small containers. It is a custom blend of mature compost, black humus peat, sphagnum peat, fish meal, seaweed meal, and perlite. No chemical fertilizers or wetting agents are added.

Neither the peat nor the compost used in the 512 Mix is sterilized, but the formulation is suitable for most horticultural growing purposes. The mix can be moistened and used directly from the bag, preserving its organic, living character. Growers requiring a strictly sterile mix, however, should heat-sterilize this product before use.

SEED STARTING

1. Moisten the mix. It should be damp enough to hold shape but not to release water when squeezed.
2. Fill your cell tray or pot with moistened 512 Mix, and gently shake so the medium settles. Do not press to firm.
3. Sow the seeds, covering with additional moistened mix or vermiculite as appropriate.
4. Mist the surface as needed to keep the surface moist until emergence of seedlings. After emergence, water as needed, but only when the mix is almost dry, to avoid over-watering.
5. If required, transplant young seedlings to larger or individual containers filled with Johnny's 512 Mix.
6. Begin using a soluble fertilizer after 6–8 weeks, or when the plant appears to need additional fertilization. Johnny's 512 Mix should supply enough nutrients for seedlings to grow to transplant size without additional fertilizer, depending upon species and container size.

HOUSEPLANTS, BULBS, ORNAMENTAL CONTAINERS

1. Moisten the mix, as above. Select a correctly sized pot for the species and plant size, with suitable drainage holes at its base.
2. Place a layer of 512 Mix in the pot.
3. Set the plant or bulb in the pot at an appropriate level for its size and species. Work more mix in, around, and above the root ball or bulb. Press to firm.
4. Water thoroughly.
5. Provide newly transplanted plants with a shady location for 2 days, then move to intended location.
6. Water when the soil mix is almost dry. After 6–8 weeks, water and fertilize according to container and plant size and cultural needs, using a soluble fertilizer.

USING JOHNNY'S 512 MIX WITH A SOIL-BLOCK MAKER

Johnny's 512 Mix can be used with Soil-block Makers to create blocks of growing medium that are lightly compressed and shaped, eliminating the need for plastic pots for transplanted seedlings. Compared to those grown in containers, seedlings grown in soil blocks develop stronger root systems that undergo less root disturbance when transplanted into the field, significantly reducing chance of transplant shock. For more information, see the [Soil-Block Making](#) section of our website.

NUMBER OF POTS, FLATS & TRAYS FILLED PER BAG

Johnny's 512 Mix is not compressed. The following table provides approximate figures for the number of pots, flats, or trays that each bag can fill.

	20 qt.	60 qt.
Cubic inches of mix	1344	4032
4-inch pots		
	35	106
Plug Flats		
288 cells*	9	28
200 cells*	8	26
128 cells	6	17
72 cells	5	14
50 cells	4	14
Pro-Trays[†]		
72 cells	6	18
38 cells	5	15
24 cells [‡]	7	21

* Further screening the mix may be desirable for use in high cell-count flats; a loss of approximately 10–15% of the mix volume should be anticipated, depending on screen gauge.

† Pro-Trays have cylindrical cells that hold a smaller volume than the quadrangular cells of plug flats.

‡ 24-cell Pro-Trays have cylindrical cells that are spaced further apart for greater leaf development.

COMPLETE INGREDIENT LIST FOR JOHNNY'S 512 MIX

- Dark humus peat
- Sphagnum peat
- Perlite
- Fish meal
- Compost, which contains:
 - Chicken manure
 - Dairy manure
 - Hardwood shavings and sawdust
 - Turkey slaughter waste
 - May include seaweed, plant residue (garden waste and weeds), elemental sulfur, and/or gypsum

Johnny's 512 Mix is approved for use in organic production in the state of Maine through the Maine Organic Farmers and Gardeners Association (MOFGA).