

BASIS OF ACCEPTANCE. Fertilizer will be accepted on the basis of the manufacturer's label or certificate indicating conformance with this specification and visual inspection. Material that has become caked or otherwise damaged will be rejected.

713-04 SEEDS

SCOPE. This specification covers the material requirements for seeds for grasses, legumes, wildflowers and cereals.

MATERIAL REQUIREMENTS. All species and their cultivars or varieties must be disease and insect resistant, not considered noxious or invasive, guaranteed hardy and adapted for the locality, and among the top 25% of commercially-available seed types as rated by NTEP (National Turfgrass Evaluation Program). Cultivars infected with non-pathogenic (non-disease causing) fungal endophytes are preferred, if available. Experimental varieties should be excluded.

Material other than pure live seed shall comprise only nonviable seed, chaff, hulls, live seed of crop plants other than those specified, harmless inert matter and non-noxious, non-invasive weed species seeds. Non-noxious, non-invasive species weed seeds will be permitted up to 1% of the gross weight of each seed mixture.

Seeding mixtures shall be composed of perennial (except for annual rye) grasses suited to the site conditions, use, soils, moisture and local climate. All seeds of leguminous plants requiring inoculation shall be inoculated prior to mixing or sowing unless otherwise specified or approved or unless accompanied by a certificate of preinoculation. The Contractor may propose a dormant seed additive for cold weather seeding at no additional cost to the state. The Contractor may propose an alternate range for a component of a given mix based on regional and commercial availability.

A. General Roadside Seed Mix

Common Name	Scientific Name	Variety	Percent by weight
Fine Fescue (2 varieties min. must include creeping red)	Festuca rubra var.	Commercial	50-70
Perennial Ryegrass (2 var. min.)	Lolium perenne	Commercial "turf" type	15-40
Annual Ryegrass	Lolium multiflorum	Commercial	5-15
Clover (White preferred)	Trifolium repens	Commercial	5-10

B. Restoration/High-Traffic Seed Mix

Common Name	Scientific Name	Variety	Percent by weight
Kentucky Bluegrass (2 var. min.)	Poa pratensis	Commercial	5-20
Fine Fescue (2 var. min.; must include creeping red)	Festuca rubra var.	Commercial	15-40
Tall Fescue (2 var. min.)	Festuca arundinacea	Commercial "turf" type	25-50
Perennial Ryegrass (2 var. min.)	Lolium perenne	Commercial "turf" type	10--30
Annual Ryegrass	Lolium multiflorum	Commercial	5-15
Ticklegrass (or, if unavailable, Redtop)	Agrostis scabra (or Agrostis alba)	Commercial	0-15
Clover (White preferred)	Trifolium repens	Commercial	0-5

C. Lawn Seed Mix

Common Name	Scientific Name	Variety	Percent by weight
Kentucky Bluegrass (3 var. min.)	Poa pratensis	Commercial	15-40
Fine Fescue (2 var. min. must	Festuca rubra var.	Commercial	30-50

include creeping red)			
Perennial Ryegrass (2 var. min.)	Lolium perenne	Commercial "turf" type	15-40
Annual Ryegrass	Lolium multiflorum	Commercial	5-15

D. Salt-Tolerant Seed Mix

Common Name	Scientific Name	Variety	Percent by weight
Fine Fescue (must include creeping red and hard fescue)	Festuca rubra var. & Festuca longifolia*	Commercial	10-25
Perennial Ryegrass (2 var. min.)	Lolium perenne	Commercial "turf" type	10-40
Tall Fescue (2 var. min., selected for maximum salt tolerance)	Festuca arundinacea	Commercial "turf" type	25-45
Ticklegrass (or, if unavailable, Redtop)	Agrostis scabra (or Agrostis alba)	Commercial	5-10
Alkaligrass (weeping preferred)	Puccinellia distans	Commercial	15-40

*aka. *F. trachyphylla* Krajina; *F. brevipila* Tracey

Wildflower Seed Mix. Wildflower seed mix shall be as specified in contract documents

Nomenclature. The common and scientific names of grasses, legumes, wildflowers and cereals specified in the contract documents shall conform to one or more of the authorities on botanical nomenclature recognized by the American Association of Nurserymen.

Stratification. Seeds in Wildflower Seed Mixes that require cold and/or warm stratification in order to germinate shall be prepared prior to sowing or used only in fall planting mixes.

Legume Inoculants. Legume seeds requiring inoculation shall be accompanied by adequate amounts of their proper inoculants unless accompanied by certification of preinoculation. Inoculants for treating legume seeds shall be a standard culture of nitrogen fixing bacteria that is not more than one year old. Each inoculant shall be the specific culture required for each legume. Inoculants shall be supplied only from suppliers licensed by the Department of Agriculture and Markets to sell legume inoculants in New York State.

PACKAGING. Seeds shall be furnished and delivered in labeled containers or bags that are acceptably sealed or sewn tight. All seed and seed labels shall be in accordance with Agriculture and Markets Law. Container or bag labels shall not be removed prior to the time of sowing nor shall container labels be altered, obliterated or otherwise illegible.

When seeds are to be accepted by certification, they may be mixed prior to delivery. The certification shall consist of the label that shall be attached to each container of seed in accordance with the provisions of the Agriculture and Markets Law. Seeds will not be accepted by certification unless the test dates shown on the seed container labels are within the twelve months prior to the date that the seeds are sown.

Seeds shall be furnished damage free, with no mold, rot or deterioration, as a result of handling, transit or storage. After delivery to the Contractor, seed shall be stored so that it is protected from damage or deterioration from any source.

BASIS OF ACCEPTANCE. Seeds will be accepted on the basis of the manufacturer's label or certificate indicating conformance with this specification and Agriculture and Markets Law.

713-05 MULCH FOR PLANTING