

JJJ-S-181b  
September 3, 1964  
SUPERSEDING  
Int. Fed. Spec. JJJ-S-00131a (AGR-AMS)  
June 11, 1962 and  
Fed. Spec. JJJ-S-181  
January 18, 1960

FEDERAL SPECIFICATION

SEEDS, AGRICULTURAL

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers agricultural seeds for use on farms, lawns, fairways, etc.

1.2 Classification.

1.2.1 Kinds. Agricultural seeds covered by this specification shall be of the kinds shown in table I and any desired mixtures, as specified (see 3.2.2, 6.1 and 6.3).

2. APPLICABLE SPECIFICATIONS, STANDARDS, AND OTHER PUBLICATIONS

2.1 Specifications and standards. The following specifications and standards, of the issue in effect on date of invitation for bids, form a part of this specification:

Federal Specification:

PPP-B-35 -- Bags: Textile, Shipping, Burlap, Cotton and Waterproof Laminated.

Federal Standards:

Fed. Std. No. 102--Preservation, Packaging and Packing Levels.  
Fed. Std. No. 123--Marking for Domestic Shipment (Civilian Agencies).

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

(Single copies of this specification and other product specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston, New York, Washington, D. C., Atlanta, Chicago, Kansas City, Mo., Dallas, Denver, San Francisco, Los Angeles, and Seattle, Wash.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Standard:

MIL-STD-129--Marking for Shipment and Storage.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following publications, of the issues in effect on date of invitation for bids, form a part of this specification:

Service and Regulatory Announcements No. 156 of the Agricultural Marketing Service,

FSC 8730

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United States Department of Agriculture; the Federal Seed Act and the Rules and Regulations thereunder.

State Noxious-Weed Seed Requirements Recognized in the Administration of the Federal Seed Act issued by the Agricultural Marketing Service, United States Department of Agriculture.

Regulations for Inspection and Certification of Certain Agricultural Commodities and Products Thereof, (7CFR, Part 68), issued by the Secretary of Agriculture.

(Copies of these documents may be obtained from the Seed Branch, Grain Division, Agricultural Marketing Service, United States Department of Agriculture, Washington 25, D. C.)

Applicable State seed laws. (Copies may be obtained by writing the State Department of Agriculture in the State concerned.)

### 3. REQUIREMENTS

#### 3.1 Federal Seed Act and State seed laws.

Agricultural seeds covered by this specification shall conform to the requirements of the Federal Seed Act and to the State seed laws as applicable. The pertinent requirements under the Federal Seed Act for labeling seed in interstate commerce require the lot number, name of the kind or kind and variety, percentages of pure seed, other crop seeds, weed seeds, inert matter, percentage of germination, and hard seeds (if any), the date tested, names and rates of occurrence of noxious-weed seeds in accordance with the law of the State into which shipped, the name and address of the shipper, and, if treated, a statement to that effect, the chemical or commonly accepted coined name of the substance with which treated, and an appropriate caution statement.

3.2 Quality requirements. Agricultural seeds shall conform to the quality requirements shown in table I.

TABLE I.--Quality requirements for agricultural seeds

Name of seed	Minimum percent pure seed	Minimum percent germination and hard seed	Maximum percent weed seed
Alfalfa-- <i>Medicago sativa</i> -----	99	90 *	.50
Alfilaria-- <i>Erodium cicutarium</i> -----	95	70	1.00
Alyceclover-- <i>Alysicarpus vaginalis</i> -----	98	90 *	1.00
Bahiagrass-- <i>Paspalum notatum</i> , Argentine -----	80	70	1.00
Pensacola -----	80	70	1.00
Barley-- <i>Hordeum vulgare</i> -----	99	90	.10
Bean:			
Adzuki-- <i>Phaseolus angularis</i> -----	99	90 *	.00
Field-- <i>Phaseolus vulgaris</i> -----	99	85 *	.00
Mung-- <i>Phaseolus aureus</i> -----	99	90 *	.00
Beet, field and sugar-- <i>Beta vulgaris</i> -----	98	80	.00
Beggarweed-- <i>Dasmodium tortuosum</i> -----	95	80 *	.50
Bentgrass:			
Colonial (including Astoria and Highland)-- <i>Agrostis tenuis</i> -----	98	85	.50
Creeping-- <i>Agrostis palustris</i> -----	98	85	.50

Velvet-- <i>Agrostis canina</i> -----	98	85	.50
Bermudagrass:			
Common-- <i>Cynodon dactylon</i> -----	97	85	1.00
Giant-- <i>Cynodon sp.</i> -----	97	85	1.00
Bluegrass:			
Bulbous-- <i>Poa bulbosa</i> -----	96	80	.50
Canada-- <i>Poa compressa</i> -----	80	80	.50
Glaucantha-- <i>Poa glaucantha</i> -----	80	80	.50
Kentucky-- <i>Poa pratensis</i> -----	85	80	.50
Nevada-- <i>Poa nevadensis</i> -----	85	80	.50
Rough-- <i>Poa trivialis</i> -----	85	80	.50
Texas-- <i>Poa arachnifera</i> -----	85	80	.50
Wood-- <i>Poa nemoralis</i> -----	80	80	1.00

TABLE I.--Quality requirements for agricultural seeds (cont'd.)

Name of seed	Minimum percent pure seed	Minimum percent germination and hard seed	Maximum percent weed seed
<b>Bluestem:</b>			
Big-- <i>Andropogon gerardi</i> -----	50	50	1.00
Little-- <i>Andropogon scoparius</i> -----	50	50	1.00
Sand-- <i>Andropogon hallii</i> -----	50	50	1.00
Yellow-- <i>Andropogon ischaemum</i> -----	50	50	1.00
<b>Brome:</b>			
Field-- <i>Bromus arvensis</i> -----	95	80	1.00
Mountain-- <i>Bromus marginatus</i> -----	92	85	1.00
Smooth-- <i>Bromus inermis</i> -----	90	85	.50
Broomcorn-- <i>Sorghum vulgare technicum</i> -----	98	85	.10
Buckwheat-- <i>Fagopyrum esculentum</i> -----	97	85	1.00
Buffalograss-- <i>Buckloe dactyloides</i> -----	75	70	1.00
Buffelgrass-- <i>Pennisetum ciliare</i> -----	70	70	.50
Burclover, spotted-- <i>Medicago arabica</i> (in bur) -----	80	90 *	.50
(out of bur) -----	98	90 *	.50
Burclover, California-- <i>Medicago hispida</i> (in bur) -----	90	90 *	.50
(out of bur) -----	98	90 *	.50
Burnet-- <i>Sanguisorba minor</i> -----	98	70	1.00
Buttonclover-- <i>Medicago orbicularis</i> -----	97	85 *	1.00
Canarygrass-- <i>Phalaris canarlensis</i> -----	98	80	.50
Canarygrass, Reed-- <i>Phalaris arundinacea</i> -----	97	70	.50
Carpetgrass-- <i>Axonopus affinis</i> -----	92	85	.50
Castorbean-- <i>Ricinus communis</i> -----	99	80	.00
Chess, soft-- <i>Bromus mollis</i> -----	92	85	1.00
Chickpea-- <i>Cicer arientinum</i> -----	99	90	.00
<b>Clover:</b>			
Alsike-- <i>Trifolium hybridum</i> -----	98	90 *	.50
Berseem-- <i>Trifolium alexandrinum</i> -----	98	90 *	.50
Cluster-- <i>Trifolium glomeratum</i> -----	95	85 *	.50
Crimson-- <i>Trifolium incarnatum</i> -----	98	85 *	.50
Kenya-- <i>Trifolium semipilosum</i> -----	98	85 *	.50
Ladino-- <i>Trifolium repens</i> -----	98	90 *	.50
Large hop-- <i>Trifolium procumbens</i> -----	98	85 *	.50
Lappa-- <i>Trifolium lappaceum</i> -----	98	75 *	.50
Persian-- <i>Trifolium resupinatum</i> -----	95	85 *	.50
Red-- <i>Trifolium pratense</i> -----	98	90 *	.50
Rose-- <i>Trifolium hirtum</i> -----	98	90 *	.50
Strawberry-- <i>Trifolium fragiferum</i> -----	97	90 *	.50
Subterranean-- <i>Trifolium subterraneum</i> -----	98	90 *	.50
Small hop (suckling)-- <i>Trifolium dubium</i> -----	92	85 *	.50
White-- <i>Trifolium repens</i> -----	98	90 *	.50
<b>Corn:</b>			
Field-- <i>Zea mays</i> -----	99	90	.00
Pop-- <i>Zea mays everta</i> -----	99	90	.00
Cotton-- <i>Gossypium hirsutum</i> -----	99	80	.00
Cowpea-- <i>Vigna sinensis</i> -----	98	85 *	.00
Crested dogtail-- <i>Cynosurus cristatus</i> -----	98	80	.50
<b>Crotalaria:</b>			
Lance-- <i>Crotalaria lanceolata</i> -----	99	80 *	.50
Showy-- <i>Crotalaria spectabilis</i> -----	99	80 *	.50
Slender-- <i>Crotalaria intermedia</i> -----	99	80 *	.50
Striped-- <i>Crotalaria mucronata</i> -----	99	80 *	.50

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TABLE I.--Quality requirements for agricultural seeds (cont'd.)

Name of seed	Minimum percent pure seed	Minimum percent germination and hard seed	Maximum percent weed seed
Crotalaria: (cont'd.)			
Sunn--Crotalaria juncea -----	98	80 *	.50
Crownvetch--Coronilla varia -----	98	85 *	.50
Dallisgrass--Paspalum dilatatum -----	70	70	1.00
Dichondra--Dichondra repens -----	99	85 *	.25
Dropseed, sand--Sporobolus cryptandrus -----	95	75 *	1.00
Emmer--Triticum dicoccum -----	99	90	.25
Fescus:			
Chewings--Festuca rubra var. -----	98	85	.50
Hair--Festuca capillata -----	96	85	1.00
Hard--Festuca ovina -----	96	85	1.00
Meadow--Festuca elatior -----	98	90	1.00
Red--Festuca rubra var. -----	98	85	.50
Sheep--Festuca ovina -----	96	85	.50
Tall--Festuca elatior var. arundinacea -----	98	90	1.00
Flax--Linum usitatissimum -----	97	85	.50
Grama:			
Blue--Bouteloua gracilis -----	68	60	1.00
Side-oats--Bouteloua curtipendula -----	50	50	1.00
Guar--Cyamopsis tetragonoloba -----	98	70 *	.50
Guineagrass--Panicum maximum -----	75	30	1.00
Hardinggrass--Phalaris tuberosa -----	90	60	.50
Hemp--Cannabis sativa -----	98	85	.25
Indiangrass, yellow--Sorghastrum nutans -----	70	70	1.00
Indigo, hairy--Indigofera hirsuta -----	98	85 *	.50
Japanese lawngrass--Zoysia japonica -----	70	50	1.00
Johnsongrass--Sorghum halepense -----	98	70	.50
Kudza--Pueraria thunbergiana -----	99	70 *	.50
Lentil--Lens culinaris -----	98	80 *	.50
Lespedeza:			
Korean--Lespedeza stipulacea -----	97	85 *	1.00
Sericea or Chinese--Lespedeza cuneata -----	98	85 *	.50
Siberian--Lespedeza hedysaroides -----	97	90 *	.50
Striate: -----			
Common--Lespedeza stipulacea -----	96	85 *	1.00
Kobe--Lespedeza stipulacea -----	97	85 *	1.00
Lovegrass:			
Sand--Eragrostis trichodes -----	92	70	1.00
Weeping--Eragrostis curvula -----	95	80	1.00
Lupine:			
Blue--Lupinus angustifolius -----	99	90 *	.00
White--Lupinus albus -----	99	90 *	.00
Yellow--Lupinus luteus -----	99	90 *	.00
Manilagrass--Zoysia matrella -----	97	50	.50
Meadow, foxtail--Alopecurus pratensis -----	90	80	.50
Medick, black--Medicago lupulina -----	98	90 *	.50
Millet:			
Browntop--Panicum ramosum -----	98	85	.50
Foxtail--Setaria italica -----	98	85	.50
Japanese--Echinochloa crusgalli frumentaces -----	98	85	.50
Pearl--Pennisetum glaucum -----	98	85	.50
Proso--Panicum miliaceum -----	98	85	.50
Molassesgrass--Melinis minutiflora -----	50	50	1.00
Mustard: Brassica juncea -----	98	85	.50

Black--Brassica nigra ----- | 98 | 85 | .50

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TABLE I.--Quality requirements for agricultural seeds (cont'd.)

Name of seed	Minimum percent pure seed	Minimum percent germination and hard seed	Maximum percent weed seed
Mustard: (cont'd.)			
White--Brassica hirta -----	98	85	.50
Napiergrass--Pennisetum purpureum -----	90	70	1.00
Oat--Avena sativa and A. byzantina -----	98	90	.10
Oatgrass, tall--Arrhenatherum elatius -----	85	80	1.00
Orchardgrass--Dactylis glomerata -----	90	90	1.00
Panicgrass:			
Blue--Panicum antidotale -----	80	60	.50
Green--Panicum maximum var. trichoglume ---	97	80	.50
Peanut--Arachis hypogaea -----	99	80 *	.00
Pea, field--Pisum sativum arvense -----	99	90 *	.00
Rape:			
Annual--Brassica napus var. annua -----	98	85	.50
Bird--Brassica campestris -----	98	85	.50
Turnip--Brassica campestris -----	98	85	.50
Winter--Brassica napus -----	99	90	.50
Redtop--Agrostis alba -----	92	85	1.00
Rescuegrass--Bromus catharticus -----	97	85	1.00
Rhodesgrass--Chloris gayana -----	60	60	1.00
Rice--Oryza sativa -----	99	90	.50
Ricegrass, Indian--Oryzopsis hymenoides ----	95	70	.50
Roughpea--Lathyrus hirsutus -----	98	90 *	.00
Rye--Secale cereale -----	97	85	.10
Ryegrass:			
Italian or Annual--Lolium multiflorum ----	98	90	.50
Perennial--Lolium perenne -----	98	90	.50
Wimmera--Lolium rigidum -----	98	90	.50
Safflower--Carthamus tinctorius -----	98	80	.50
Sainfoin--Onobrychis viciaefolia -----	98	75 *	.50
Sesame--Sesamum indicum -----	98	80	.50
Sesbania--Sesbania exaltata -----	99	90 *	.25
Smilo--Oryzopsis miliacea -----	90	70	.50
Sorghum:			
Grain--Sorghum vulgare -----	98	85	.25
Sweet (Sorgo)--Sorghum vulgare -----	98	85	.25
Sorghum alnum--Sorghum alnum -----	98	70	.50
Sorghum--sudangrass hybrid--Sorghum vulgare X S. sudanense -----	98	85	.25
Sorghgrass--Sorghum sp. -----	98	80	.50
Sourclover--Melilotus indica -----	98	90 *	.50
Soybean--Glycine max -----	98	85 *	.00
Spelt--Triticum spelta -----	99	90	.25
Sudangrass--Sorghum vulgare sudanense -----	98	85	.25
Sunflower (Cult)--Helianthus annuus -----	99	90	.00
Sweetclover:			
White blossom--Melilotus alba -----	98	88 *	.50
Yellow blossom--Melilotus officinalis ----	98	88 *	.50
Sweet vernalgrass--Anthoxanthum odoratum ----	90	80	.50
Switchgrass--Panicum virgatum -----	70	50	.50
Timothy--Phleum pratense -----	99	85	.25
Tobacco--Nicotiana tobacum -----	98	75	.25
Trefoil:			

Big--Lotus uliginosus -----		97		85 *		.50
Birdafoot--Lotus corniculatus -----		97		85 *		.50
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TABLE I.--Quality requirements for agricultural seeds (cont'd.)

Name of seed	Minimum percent pure seed	Minimum percent germination and hard seed	Maximum percent weed seed
Veldtgrass-- <i>Ehrharta calycina</i> -----	60	60	1.00
Velvetbean-- <i>Stizolobium deeringianum</i> -----	99	80 *	.00
Velvetgrass-- <i>Holcus lanatus</i> -----	95	85	.50
Vetch:			
Common-- <i>Vicia sativa</i> -----	98	90 *	.25
Hairy-- <i>Vicia villosa</i> -----	98	90 *	.25
Hungarian-- <i>Vicia panonica</i> -----	98	90 *	.25
Monantha-- <i>Vicia articulata</i> -----	98	90 *	.25
Narrowleaf-- <i>Vicia angustifolia</i> -----	98	90 *	.25
Purple-- <i>Vicia atropurpurea</i> -----	98	90 *	.25
Woollypod-- <i>Vicia dasycarpa</i> -----	98	90 *	.25
Wheat, common, club, durum, Polish, poulard-- <i>Triticum</i> spp. -----	99	90	.10
Wheatgrass:			
Beardless-- <i>Agropyron inerme</i> -----	95	85	.50
Crested or fairway crested-- <i>Agropyron cristatum</i> -----	95	85	.25
Crested or standard crested-- <i>Agropyron desertorum</i> -----	95	85	.25
Intermediate-- <i>Agropyron intermedium</i> -----	95	85	.50
<UT>-- <i>Agropyron tricophorum</i> -----	95	85	.50
Siberian-- <i>Agropyron sibiricum</i> -----	95	85	.50
Slender-- <i>Agropyron trachycaulum</i> -----	95	85	.25
Streambank-- <i>Agropyron riparium</i> -----	95	85	.50
Tall-- <i>Agropyron elongatum</i> -----	95	85	.50
Western-- <i>Agropyron smithii</i> -----	80	80	.50
Wildrye:			
Canada-- <i>Elymus canadensis</i> -----	90	60	1.00
Russian-- <i>Elymus junecus</i> -----	90	70	1.00

\* Indicates hard seeds may be present and are included.

3.2.1 Noxious-weed seeds. Agricultural seeds covered by this specification shall in no event contain more than 45 per pound of the following-named noxious-weed seed; bind-weed, Canada thistle, dodder, perennial sow-thistle, quackgrass, leafy spurge, white-top, Johnsongrass, and Russian knapweed.

3.2.2 Mixtures. Mixtures of seeds shall be based upon the definite requirements for each kind of seed component, utilizing the name, percentage of pure seed, percentage of germination, and percentage of weed seeds given in table I. (See 6.1 and table II for example.)

3.3 Rejection. Seeds furnished under this specification which fail to meet the test requirements (allowing tolerances as provided under the Federal Seed Act) shall either be rejected or subjected to deductions in accordance with 6.2.

3.4 Workmanship. Agricultural seeds shall be thoroughly recleaned, and of uniformly good quality and appearance throughout each lot.

#### 4. SAMPLING, INSPECTION, AND TEST PROCEDURES

4.1 Sampling. Agricultural seeds shall be sampled by the procuring agency or an authorized representative at the time and place specified by the procuring agency in accordance with the regulations under the Federal Seed Act.

4.2 Inspection.

4.2.1 General. Inspection shall be made by the procuring agency or a duly authorized

representative at the time and place designated by the procuring agency. It may be made at the site of manufacture, both during and after processing, at any suitable point in transit, and/or after delivery to the point of destination.

4.2.2 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2.3 Procedures. The procedure shall be in accordance with the Regulations for Inspection and Certification of certain Agricultural Commodities and Products thereof (7CFR68) issued by the Secretary of Agriculture.

4.2.4 Factory inspection. The passing as satisfactory of any detail of processing or materials shall not relieve the contractor of responsibility for faulty workmanship or materials which may be discovered at any time prior to final acceptance.

4.3 Tests. Purity and germination and noxious-weed seed tests shall be conducted in accordance with the methods prescribed in Service and Regulatory Announcements No. 156.

## 5. PREPARATION FOR DELIVERY

For civil agencies procurement the definitions and applications of the levels of packaging and packing shall be in accordance with Fed. Std. No. 102.

### 5.1 Packing.

5.1.1 Levels A and B. Fifty or one-hundred pounds of seeds, as specified, shall be packed in textile waterproof laminated shipping bags conforming to PPP-B-35, type III. The bags shall be closed in conformance with the appendix to the bag specification (see 6.3).

5.1.2 Level C. The seed shall be prepared for shipment to permit acceptance by carrier for transportation at the lowest applicable rate, and to afford maximum protection from normal hazards of transportation.

### 5.2 Labeling and marking.

5.2.1 Civil agencies. Unless otherwise specified, the containers shall be labeled as required by the Federal Seed Act or applicable State seed law. The containers shall be marked in accordance with the requirements of Fed. Std. No. 123, and such other information as specified by individual agencies (see 6.3).

5.2.2 Military agencies. Unless otherwise specified, the containers shall be labeled as required by the Federal Seed Act or applicable State seed law. The containers shall be marked in accordance with MIL-STD-129 (see 6.3).

## 6. NOTES

6.1 The following example is given to show the method for determining requirements for mixtures from the requirements for each ingredient:

6.2 Deductions. Deductions in price may be based on the results of tests with tolerances being allowed, as compared to the percentage of pure seed, weed seed, and germination specified. The discount for straight kinds shall be as follows:

(1) Germination. Deduction of 2 percent for each percent of germination that the seed falls below the requirements after the allowance of the tolerance.

(2) Pure seed. Deduction of 2 percent for each 0.5 percent of pure seed that the seed

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TABLE II.--Work table for determining requirements for mixtures from the requirements of each ingredient

Weight in pounds of each ingredient	Percent by weight	Commodity	Percent pure seed specified	Minimum percent pure seed to be in mixture	Maximum percent weeds specified	Maximum percent weeds to be in mixture	Minimum percent germination specified
100	62-1/2	Ky. Bluegrass	85.00	53.13	1.00	0.065	80.00
50	31-1/4	Redtop	92.00	28.75	1.00	0.0325	90.00
10	6-1/4	White Clover	96.00	6.00	1.00	0.0625	90.00 (hard seed included)
Total 160		Total weed seed		1.00			

Purchasers should require the following from the above formula

	Pure seed	Minimum germination
	Percent	Percent
Ky. Bluegrass -----	53.13	80
Redtop -----	28.75	90
White Clover -----	6.00	90 (hard seed included)
Weeds not more than -----	1.00	-----

falls below the requirements after allowance of tolerance.

(3) Weed seeds. Deduction of 1 percent for each 0.20 percent or fraction thereof of weeds in excess of the amount specified after allowance of tolerances.

6.3 Ordering data. Purchasers should exercise any desired options offered herein and procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Kind of seeds required (see 1.2.1).
- (c) Level of packing required (see 5.1.1).
- (d) Quantity of seeds desired (see 5.1.1).
- (e) Other labeling and marking when required (see 5.2.1 and 5.2.2).

6.4 Specification coverage. The specification does not include all kinds and qualities of agricultural seeds that are commercially available but is intended to cover the kinds and quality generally suitable for Government requirements.

6.5 If samples with bids are necessary, they should be specifically asked for in the invitation for bids, and the particular purpose to be served by the bid sample should be definitely stated, the specification to apply in all other respects.

6.6 Destination inspection. When the finished product has been inspected and passed at point other than destination, the contract should require that the product be inspected at destination for condition and

quantity only.

6.7 Transportation description. Transportation descriptions and minimum weights applicable to this commodity are:

Rail:

Seeds, not otherwise indexed by name.  
Carload minimum weight 30,000 pounds.

Motor:

Seeds, not otherwise indexed.  
Truckload minimum weight 30,000 pounds, subject to Rule 115,  
National Motor Freight Classification.

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MILITARY CUSTODIANS:

Army--MO

Navy--Docks

Air Force--MOA

Review Interest:

Army--MO

Navy Docks

Air Force--MOA

User Interest:

Army--GL

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Copies of this specification may be purchased for 10 cents each.