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SEED TESTING Procedures for:

- Sampling
- Packaging
- Forwarding to
Laboratory
- Time Required for
Test
- Testing Fees

Government Publications
Texas State Documents

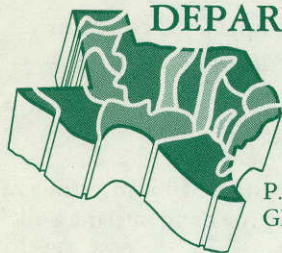
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DEPARTMENT
OF AGRICULTURE



P. O. BOX 629
GIDDINGS, TEXAS 78942 · (409) 542-3691

Jim Hightower
Commissioner

I. SAMPLING SEED

A. General Procedure

1. In order to secure a representative sample, equal portions should be taken from evenly distributed parts of the quantity of seed to be sampled. Access should be had to all parts of that quantity. When more than one trierful of seed is drawn from a bag, different paths should be followed. When more than one handful is taken from a bag, the handfuls should be taken from well separated points.
2. For free-flowing seed in bags or bulk a probe or trier should be used. For small free-flowing seed in bags a probe or trier long enough to sample all portions of the bag should be used.
3. Nonfree-flowing seed such as certain grass seed or uncleaned seed, difficult to sample with a probe or trier, should be sampled by thrusting the hand into the bulk and withdrawing representative portions. The hand should be inserted in an open position and the fingers held closely together while the hand is being inserted and the portion withdrawn.
4. As the seed is sampled, each portion should be examined. If there appears to be a lack of uniformity, the portions should not be combined into a composite sample but should be retained as separate samples.
5. When the portions appear to be uniform, they should be combined to form a composite sample.

B. Bulk

Bulk seed should be sampled by inserting a long probe or thrusting the hand into the bulk as circumstances require in at least seven uniformly distributed parts of the quantity being sampled. At least as many trierfuls or handfuls should be taken as the minimum which would be required for the same quantity of seed in bags of a size customarily used for such seed.

C. Bags

1. For lots of six bags or less, each bag should be sampled. A total of at least five trierfuls should be taken.

2. For lots of more than six bags, five bags plus at least 10 percent of the number of bags in the lot should be sampled. Some persons prefer to sample every fifth bag but not less than five bags when the quantity is more than five bags. In any case time should be given to drawing a representative sample from the lot.

II. INFORMATION TO BE GIVEN ON SAMPLE

- A. Name and address of sender.
- B. Kind, variety (if known).
- C. Lot number or other stock identification.
- D. Test desired (whether purity only, germination only, or both).
- E. Seed treatment (name of the seed treatment substance and the rate of application). As a protection for the personnel handling the seed, treated samples that do not give the name of the seed treatment substance will not be tested.

III. FORWARDING SAMPLES

- A. Samples should be mailed in cloth bags or strong cardboard containers. Paper bags and ice cream cartons are very unsatisfactory, usually bursting in transit.
- B. Depending on our location, samples may be addressed to one of the following Texas Department of Agriculture Seed Laboratories.

Texas Department of Agriculture
Seed Laboratory
P. O. Box 629
Giddings, Texas 78942

Texas Department of Agriculture
Seed Laboratory
4502 Englewood Avenue
Lubbock, Texas 79414

Texas Department of Agriculture
Seed Laboratory
241 East McNeill
Stephenville, Texas 76401

AGRICULTURAL SEED

CROP SEED	COMPLETE TEST	PURITY TEST
Alfalfa	\$12.00	\$ 6.00
Bahiagrass	\$20.00	\$10.00
Barley	\$12.00	\$ 6.00
Beans	\$12.00	\$ 6.00
Bentgrasses	\$20.00	\$10.00
Bermudagrasses	\$20.00	\$10.00
Bluegrasses	\$20.00	\$10.00
Blue Panicgrass	\$20.00	\$10.00
Bluestems	\$20.00	\$10.00
Broomcorn	\$12.00	\$ 6.00
Buffalograss	\$20.00	\$10.00
Buffelgrass	\$20.00	\$10.00
Castorbean	\$12.00	\$ 6.00
Clovers	\$12.00	\$ 6.00
Corns	\$12.00	\$ 6.00
Cotton	\$12.00	\$ 6.00
Cowpea	\$12.00	\$ 6.00
Dallisgrass	\$20.00	\$10.00
Fescue	\$20.00	\$10.00
Field Pea	\$12.00	\$ 6.00
Flax	\$12.00	\$ 6.00
Gramas	\$20.00	\$10.00
Guar	\$12.00	\$ 6.00
Hardinggrass	\$20.00	\$10.00
Indiangrass	\$20.00	\$10.00
Johnsongrass	\$20.00	\$10.00
Kleingrass	\$20.00	\$10.00
Lespedezas	\$12.00	\$ 6.00
Lovegrasses	\$20.00	\$10.00
Mesquitegrass	\$20.00	\$10.00
Millets	\$12.00	\$ 6.00
Oat	\$12.00	\$ 6.00
Orchardgrass	\$20.00	\$10.00
Peanut	\$12.00	\$ 6.00
Rape	\$12.00	\$ 6.00
Redtop Grass	\$20.00	\$10.00
Rescuegrass	\$20.00	\$10.00
Rhodesgrass	\$20.00	\$10.00
Rice	\$12.00	\$ 6.00
Roughpea	\$12.00	\$ 6.00
Rye	\$12.00	\$ 6.00
Ryegrasses	\$20.00	\$10.00
Sand Dropseed	\$20.00	\$10.00
Sesame	\$12.00	\$ 6.00
Sorghum	\$12.00	\$ 6.00
Sorghum Alum	\$20.00	\$10.00
Sprangletop	\$20.00	\$10.00
Soybean	\$12.00	\$ 6.00
Sudangrass	\$12.00	\$ 6.00
Sunflower	\$12.00	\$ 6.00
Switchgrass	\$20.00	\$10.00
Texas Wintergrass	\$20.00	\$10.00
Triticale	\$12.00	\$ 6.00
Vetches	\$12.00	\$ 6.00
Wheat	\$12.00	\$ 6.00
Wheatgrasses	\$20.00	\$10.00

GERMINATION TEST (COLD TEST METHOD): \$8.00

TETRAZOLIUM OR PHENOL TEST: \$11.00

EXAMINATION OF 10 POUND RICE SEED SAMPLE

FOR PRESENCE OF RED RICE: \$11.00

MOISTURE TEST: \$6.00

FESCUE ENDOPHYTE TEST: \$25.00

VEGETABLE AND HERB SEED

KIND	COMPLETE TEST	AMOUNT NEEDED	DAYS FOR GERM.
Artichoke	\$12.00	2 lb.	21 days
Asparagus	\$12.00	2 lb.	21 days
Beans	\$12.00	2 lb.	9 days
Beet	\$12.00	2 lb.	14 days
Broccoli	\$12.00	4 oz.	13 days
Brussels Sprouts	\$12.00	4 oz.	13 days
Cantaloupe	\$12.00	2 lb.	10 days
Cabbage	\$12.00	4 oz.	13 days
Cardoon	\$12.00	2 lb.	21 days
Carrot	\$12.00	4 oz.	21 days
Cauliflower	\$12.00	4 oz.	13 days
Celeriac	\$12.00	2 oz.	21 days
Celery	\$12.00	2 oz.	21 days
Chicory	\$12.00	4 oz.	14 days
Citron	\$12.00	2 lb.	14 days
Collards	\$12.00	4 oz.	13 days
Corn, Sweet	\$12.00	2 lb.	7 days
Cornsalad	\$12.00	4 oz.	28 days
Cress	\$12.00	2 oz.	14 days
Cucumber	\$12.00	2 lb.	7 days
Dandelion	\$12.00	4 oz.	21 days
Dill	\$12.00	4 oz.	21 days
Eggplant	\$12.00	4 oz.	14 days
Endive	\$12.00	4 oz.	14 days
Kale	\$12.00	4 oz.	13 days
Kohlrabi	\$12.00	4 oz.	13 days
Leek	\$12.00	4 oz.	14 days
Lettuce	\$12.00	4 oz.	10 days
Mustard	\$12.00	4 oz.	10 days
Okra	\$12.00	2 lb.	14 days
Onions	\$12.00	4 oz.	12 days
Parsley	\$12.00	4 oz.	28 days
Parsnip	\$12.00	4 oz.	28 days
Peas, Garden	\$12.00	2 lb.	8 days
Pepper	\$12.00	12 oz.	14 days
Pumpkin	\$12.00	2 lb.	7 days
Radish	\$12.00	2 lb.	6 days
Rhubarb	\$12.00	2 lb.	21 days
Rutabaga	\$12.00	4 oz.	14 days
Sage	\$12.00	12 oz.	14 days
Salsify	\$12.00	2 lb.	13 days
Savory	\$12.00	4 oz.	21 days
Sorrel	\$12.00	4 oz.	14 days
Spinach, Common	\$12.00	12 oz.	21 days
Spinach, New Zealand	\$12.00	2 lb.	28 days
Squash	\$12.00	2 lb.	7 days
Swiss Chard	\$12.00	2 lb.	14 days
Tomato	\$12.00	4 oz.	14 days
Turnip	\$12.00	4 oz.	7 days
Watermelon	\$12.00	2 lb.	14 days

GERMINATION ONLY FOR VEGETABLE SEED \$6.00
 PURITY ONLY FOR VEGETABLE SEED \$6.00

GERMINATION ONLY	AMOUNT NEEDED	DAYS REQUIRED FOR GERM.
\$ 6.00	4 oz.	7 days
\$10.00	4 oz.	28 days
\$ 6.00	2 lb.	12 days
\$ 6.00	2 lb.	10 days
\$10.00	2 oz.	21-35 days
\$10.00	2 oz.	21-35 days
\$10.00	4 oz.	21-42 days
\$10.00	2 oz.	28 days
\$10.00	8 oz.	42 days
\$ 6.00	2 lb.	10 days
\$10.00	1 lb.	56 days
\$10.00	6 oz.	36 days
\$ 6.00	2 lb.	14 days
\$ 6.00	6 oz.	7-14 days
\$ 6.00	2 lb.	7 days
\$ 6.00	2 lb.	12 days
\$ 6.00	2 lb.	8 days
\$10.00	4 oz.	21 days
\$10.00	4 oz.	14-28 days
\$ 6.00	2 lb.	8 days
\$ 6.00	12 oz.	7 days
\$10.00	6 oz.	28 days
\$ 6.00	2 lb.	14 days
\$10.00	4 oz.	28 days
\$10.00	6 oz.	42 days
\$10.00	8 oz.	35 days
\$10.00	2 oz.	28 days
\$ 6.00	4 oz.	14-21 days
\$10.00	2 oz.	14-56 days
\$10.00	6 oz.	No set time
\$ 6.00	12 oz.	7-10 days
\$ 6.00	2 lb.	15 days
\$10.00	4 oz.	28 days
\$ 6.00	2 lb.	10-24 days
\$ 6.00	8 oz.	7-10 days
\$10.00	2 oz.	10 days
\$10.00	1 lb.	28 days
\$10.00	2 oz.	14 days
\$ 6.00	2 lb.	14 days
\$ 6.00	2 lb.	14 days
\$ 6.00	2 lb.	12 days
\$10.00	4 oz.	19 days
\$10.00	2 oz.	56 days
\$ 6.00	6 oz.	6 days
\$ 6.00	2 lb.	10 days
\$10.00	12 oz.	26 days
\$10.00	4 oz.	No set time
\$ 6.00	2 lb.	8 days
\$ 6.00	1 lb.	10-15 days
\$ 6.00	2 lb.	7 days
\$10.00	4 oz.	42 days
\$10.00	6 oz.	No set time
\$ 6.00	2 lb.	12 days
\$ 6.00	2 lb.	14 days
\$ 6.00	2 lb.	12 days
\$10.00	12 oz.	14-28 days

IV. PAYMENTS FOR TESTS

Separate checks should be submitted for laboratory tests and Texas tested seed analysis tags. These are two different programs of the Texas Department of Agriculture.

EXPLANATION OF TERMS AND PRICES OF AGRICULTURAL AND VEGETABLE SEED

A. COMPLETE TEST ----- \$12.00

A complete test includes the purity, inert matter, other crop seed, weed seed, noxious weed seed examination and germination.

EXCEPTION:

1. GRASSES ----- \$20.00

A charge of \$20 will be made for a complete test for grasses.

B. STANDARD GERMINATION TEST ONLY OR PURITY TEST ONLY ----- \$ 6.00

EXCEPTIONS:

1. GRASSES ----- \$10.00

2. MIXTURES ----- \$ 8.00

The term "mixture" means seeds consisting of more than one kind or variety, each present in excess of five percent of the whole.

Examples of mixtures are as follows:

Pure Seed -- Coronado Oat ..	92.39%
New Nortex Oat	5.01%
Inert Matter73%
Other Crop Seed99%
Weed Seed88%
	<hr/>
	100.00%

Pure Seed -- Wheat	91.40%
Hairy Vetch	6.00%
Inert Matter73%
Other Crop Seed99%
Weed Seed88%
	<hr/>
	100.00%

We are aware that sometimes you are unable to positively identify a sample as a mixture until the analysis has been made. Under these circumstances, when we find your sample to be a mixture, a bill will be mailed to you for the additional testing fee.

3. HIGH INERT MATTER ----- \$ 8.00

Inert matter consists of such things as trash, sticks and broken seed. Samples that contain in excess of five percent of inert matter are classified as samples with "high inert." A notice will be mailed advising you of the additional charges when your sample is found to contain "high inert" matter.

The Texas Department of Agriculture Seed Laboratories may reject trashy seed during the rush season.

C. COLD TEST \$ 8.00

D. TZ TEST, PHENOL TEST, RED
RICE EXAMINATION \$11.00

E. MOISTURE TEST \$ 6.00

F. ENDOPHYTE TEST \$25.00

Application forms for Texas Tested Seed Labels, Application for Permit to Pay the Agricultural Seed Inspection Fee by means of the Reporting System, copies of the Texas Seed Law and Regulations, additional copies of this publication and information concerning the State Seed Law are available upon request from the Seed and Grain Warehouse Program, Texas Department of Agriculture, P. O. Box 629, Giddings, Texas 78942.