

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
Fred J. Martin, Director

Section 2
in final

Seed Inspection & Certification Service
Olympia

ORDER NO. 499

Regulations Under Washington State Seed Law

Pursuant to the authority vested in me by the laws of the State of Washington, Order #330 of the Department of Agriculture of the State of Washington, dated April 21, 1941, respecting seeds, standards, controls, samples, weeds, tests and charges is modified and amended as set out in Section 1 hereof; the list of Primary (prohibited) and Secondary (restricted) weed seeds as enumerated in Sections 10 and 11, Chapter 56, Line 41 being Remington's Revised Statutes Sections 2828-11, 12; Pierce's Perpetual Code Sections 255-19, 21 is revised as set out in Section 2 hereof.

SECTION 1

Germination Standards for Vegetable Seeds

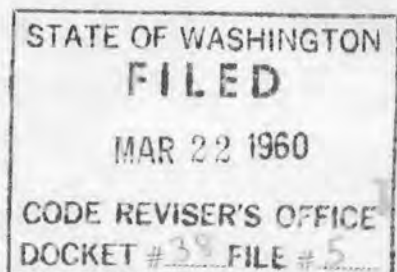
Artichoke	60	Leek	60
Asparagus	*70	Lettuce	80
Beans (except Lima)	80	Muskmelon	75
Beans (Lima)	70	Mustard	75
Beets	65	Okra	50
Broccoli	75	Onion	70
Brussels sprouts	70	Parsley	60
Cabbage	75	Parsnip	60
Carrot	55	Peas	80
Cauliflower	75	Pepper	55
Celery and Celeriac	55	Pumpkin	75
Chicory	65	Radish	75
Citron	65	Rhubarb	60
Collards	80	Rutabaga	75
Corn	75	Salsify	75
Cress, garden	40	Sorrel	60
Cress, water	25	Spinach (except	
Cucumber	80	New Zealand	60
Dandelion	45	Spinach (New	40
Eggplant	60	Zealand)	
Endive	70	Swiss chard	65
Fetticus (cornsalad)	70	Tomato	75
Kale	75	Tomato, husk	50
Kohlrabi	75	Turnip	80
		Watermelon	70
		Squash	75

* Including hard seeds

Sampling in the Administration of the Washington State Seed Law

General Procedure. (a) In order to secure a representative sample, equal portions shall be taken from evenly distributed parts of the quantity of seed or screenings to be sampled. Access shall be had to all parts of that quantity.

(b) For free-flowing seed in bags or bulk, a probe or trier shall 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.



(c) Non-free-flowing seed, such as certain grass seed, uncleaned seed, or screenings, difficult to sample with a probe or trier, shall be sampled by thrusting the hand into the bulk and withdrawing representative portions.

(d) The portions shall be combined into a composite sample or samples.

(e) As the seed or screenings is sampled, each portion shall be examined, and, whenever there appears to be lack of uniformity, additional samples shall be taken to show such lack of uniformity as may exist.

(f) Bulk seeds or screenings shall 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.

(g) Bags (1) In quantities of five bags or less each bag shall be sampled. (2) In quantities of more than five bags, at least every fifth bag but not less than five bags shall be sampled. (3) Samples shall be drawn from unopened bags except under circumstances where the identity of the seed has been preserved.

(h) In sampling seed in packets, entire unopened packets shall be taken.

(i) The following are minimum weights of samples of seed to be submitted for analysis, test or examination.

SCHEDULE OF CHARGES AND SIZE OF SAMPLE FOR PURITY AND GERMINATION TESTS

Four single tests (either Purity or Germination) will be made free of charge on single species of agricultural or vegetable seed for any person residing within the state of Washington during any one calendar year. All other tests, including seed mixtures, are at the rates scheduled below.

Kind of Seed	Size of Sample Required	Charge for Purity Test ⁽¹⁾	Charge for Germ. Test
Alfalfa.....	5 oz.	1.25	1.00
Alkali-grasses.....	2 oz.	2.00	1.00
Bentgrasses.....	2 oz.	2.00	1.00
Bluegrass, bulbous.....	4 oz.	1.50	1.75
Bluegrasses (except bulbous).....	2 oz.	2.00	1.00
Brome-grasses.....	6 oz.	1.50	.75
Canary grass.....	8 oz.	1.50	.75
Cereals (oats, wheat, barley, rye, etc.)	2 lbs.	.75	.50
Clover, Red, White, Alsike, Ladino, etc.	5 oz.	1.25	1.00
Clover, Crimson, Subterranean, Sweet, etc.	8 oz.	1.25	.75
Fescues, Chewings, Red, Sheep.....	5 oz.	2.00	1.00
Fescues, Meadow and Alta (tall)...	5 oz.	1.50	.75
Field Peas.....	2 lbs.	.75	.50
Flax.....	1 lb.	1.00	.75
Harding grass.....	5 oz.	1.25	1.00
Lotus.....	5 oz.	1.25	1.00
Millet.....	8 oz.	1.00	.50
Meadow Foxtail.....	5 oz.	2.00	1.00
Oatgrass.....	5 oz.	1.50	.75
Orchard grass.....	5 oz.	2.00	1.00
Rape.....	8 oz.	1.00	.50
Redtop.....	2 oz.	2.00	1.00
Ryegrass, common, domestic or Italian	5 oz.	1.50	.75
Ryegrass, English or perennial....	5 oz.	1.50	.75
Sudan grass.....	8 oz.	1.50	.75
Sugar & Mangel beets.....	8 oz.	1.00	.75
Trefoils, yellow (black medick, birdsfoot)	5 oz.	1.25	.75
Timothy.....	5 oz.	1.25	.75

Kind of Seed	Size of Sample Required	Charge for Purity Test ⁽¹⁾	Charge for Germ. Test
Vetches, common, hairy, etc..... (except mixtures)	2 lbs.	.75	.50
Vetch & Cereal Mixtures:			
2-way mix.....	2 lbs.	1.50	1.00 ⁽²⁾
3-way or more.....	2 lbs.	2.00	1.00 ⁽²⁾
Velvet grass.....	5 oz.	2.00	1.00
Grass and/or legume (except cereal & vetch mixture)			
2-way mix.....	6 oz.	3.25 ⁽⁵⁾	1.00 ⁽²⁾
3-way or more.....	6 oz.	3.75 ⁽⁵⁾	1.00 ⁽²⁾
Vegetables:			
Carrot.....	2 oz.	.75	.50
Beans.....	8 oz.	.75	.75
New Zealand Spinach.....	4 oz.	.75	1.00
Swiss chard.....	4 oz.	.75	.75
Beets.....	4 oz.	.75	.75
Celery.....	1 oz.	.75	.50
Onion, Tomato, Pepper, Parsnip.	2 oz.	.75	.50
Corn, Peas.....	1 lb.	.75	.50
Spinach, Melons.....	4 oz.	.75	.50
Parsley.....	2 oz.	.75	.50
Lettuce.....	2 oz.	.75	.50
Radish, Cabbage, or Brassica spp.	4 oz.	.75	.50
Wheatgrass, Crested, Intermediate	8 oz.	1.50	.75
Screenings.....	2 qts.	----- ⁽⁴⁾	----- ⁽⁴⁾
Mixtures:			
(Other than vetches or cereals)			
Containing 2 species when the lesser of the two species consists of more than 5% of the total.	8 oz.	3.00	----- ⁽³⁾

- (1) Purity test includes examination for Washington noxious weeds. If requested, seed intended for interstate shipment will be given an examination for weed seeds that are noxious in the state to which the seed is being shipped. There will be no charge for this service.
- (2) Per kind.
- (3) A proportionate charge will be made for seeds not listed. Charges for germination of mixtures shall be the sum of the charges for germinating each single species.
- (4) Charges will be made according to time required to make tests of mixtures of more than two species (other than vetch or cereals) for dirty samples or screenings.
- (5) Difficult samples of any seeds such as lawn, pasture and special mixtures requiring an unusual amount of laboratory work will be priced at \$1.25 per hour.

SECTION 2

(1) "Primary" (prohibited) noxious-weed seeds are the seeds of perennial weeds such as not only reproduce by seed, but also spread by underground roots or stems, and which, when established, are highly destructive and difficult to control in this state by ordinary good cultural practice, and shall include subject to additions or subtractions, by the Director as herein provided, the seeds of:

Primary (Prohibited) Noxious Weed Seeds

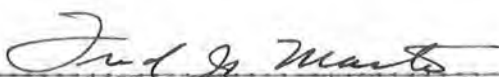
<u>English or Common Name</u>	<u>Botanical or Scientific Name</u>
Bindweed (Wild Morning Glory)	Convolvulus arvensis
Quack Grass	Agropyron repens
Canada Thistle	Cirsium arvense
Perennial sow thistle	Sonchus arvensis
White-top (Hoary cress)	Cardaria Draba
	Cardaria Draba var. repens
	Cardaria pubescens
Perennial peppergrass	Lepidium latifolium
Russian knapweed	Centaurea repens (C. picris)
Leafy spurge	Euphorbia Esula
St. Johnswort (Klamath-weed)	Hypericum perforatum
White horse nettle (Silver-leaf nightshade)	Solanum elaeagnifolium
Camelthorn	Alhagi camelorum
Austrian field cress	Roripa austriaca
Blue flowering lettuce	Lactuca pulchella
Common barberry bushes (rust-susceptible species of barberry & mahonia)	Berberis spp.
	Mahonia spp.
Yellow toadflax (Butter-and-Eggs)	Linaria vulgaris
Johnson Grass	Sorghum halepense

(2) "Secondary" (restricted) noxious-weed seeds are the seeds of such weeds as are very objectionable in fields, lawns, or gardens of this state, but can be controlled by good cultural practice, and shall include, subject to additions or subtractions by the Director as herein prescribed, seed of:

Secondary (Restricted) Noxious Weed Seeds

<u>English or Common Name</u>	<u>Botanical or Scientific Name</u>
Dodder	Cuscuta spp.
Perennial rag weed	Ambrosia psilostachya
Poverty weed (Deathweed)	Iva axillaris
Alkali mallow	Sida hederacea
Corncockle	Agrostemma githago
Docks	Rumex spp.
Sheep sorrel (red sorrel)	Rumex acetosella
Charlock (Wild Mustard)	Brassica Kaber
Plantains	Plantago spp.
Perennial groundcherry	Physalis longifolia and Physalis subglabrata
Fanweed	Thlaspi arvense
Yellow star-thistle	Centaurea solstitialis
Perennial nutgrass (nut sedge)	Cyperus rotundus
Puncturevine	Tribulus terrestris
Wild Garlic (Wild Onion)	Allium vineale

This order shall be effective from and after the third day of July 1947.


Fred J. Martin, Director of Agriculture

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE

Order No. 634

(Supersedes Order No. 621)

I, Sverre N. Omdahl, Director of Agriculture, by virtue of the authority vested in me by Chapter 56, Laws of 1941, do hereby order that Order No. 621 designating the list of primary (prohibited) and secondary (restricted) weed seed for the purpose of "The Washington State Seed Law" is rescinded and that the previous list as found in Section 2 Order No. 499 is hereby reinstated as follows:

SECTION 2

(1) "Primary" (prohibited) noxious-weed seeds are the seeds of perennial weeds such as not only reproduce by seed, but also spread by underground roots or stems, and which, when established, are highly destructive and difficult to control in this state by ordinary good cultural practice, and shall include subject to additions or subtractions, by the Director as herein provided, the seeds of:

Primary (Prohibited) Noxious Weed Seeds

<u>English or Common Name</u>	<u>Botanical or Scientific Name</u>
Bindweed (Wild morning glory)	Convolvulus arvensis
Quack grass	Agropyron repens
Canada Thistle	Cirsium arvense
Perennial sow thistle	Sonchus arvensis
White-top (Hoary cress)	Cardaria draba
	Cardaria draba var. repens
	Cardaria pubescens
Perennial peppergrass	Lepidium latifolium
Russian knapweed	Centaurea repens (C. picris)
Leafy spurge	Euphorbia esula
St. Johnswort (Klamath weed)	Hypericum perforatum
White horse nettle (Silver-leaf nightshade)	Solanum elaeagnifolium
Camelthorn	Alhagi camelorum
Austrian field cress	Roripa austriaca
Blue flowering lettuce	Lactuca pulchella
Common barberry bushes (rust-susceptible species of barberry and mahonia)	Berberis spp.
Yellow toadflax (Butter and Eggs)	Mahonia spp.
Johnson grass	Linaria vulgaris
	Sorghum halepense

(2) "Secondary" (restricted) noxious-weed seeds are the seeds of such weeds as are very objectionable in fields, lawns, or gardens of this state, but can be controlled by good cultural practice, and shall include, subject to additions or subtractions by the Director as herein prescribed, seed of:

Secondary (Restricted) Noxious Weed Seeds

<u>English or Common Name</u>	<u>Botanical or Scientific Name</u>
Dodder	Cuscuta spp.
Perennial rag weed	Ambrosia psilostachya
Poverty weed (Deathweed)	Iva axillaris
Alkali mallow	Sida hederacea
Corncockle	Agrostemma githago
Docks	Rumex spp.
Sheep sorrel (red sorrel)	Rumex acetosella
Charlock (Wild mustard)	Brassica Kaber
Plantains	Plantago spp.
Perennial groundcherry	Physalis longifolia and Physalis subglabrata
Fanweed	Thlaspi arvense
Yellow star-thistle	Centaurea solstitialis
Perennial nutgrass (nut sedge)	Cyperus rotundus
Puncturevine	Tribulus terrestris
Wild garlic (Wild onion)	Allium vineale

STATE OF WASHINGTON
FILED
MAR 22 1960
CODE REVISER'S OFFICE
DOCKET # 35 FILE # 4

This order to become effective immediately.

Sverre N. Omdahl
Sverre N. Omdahl, Director of Agriculture

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
Sverre N. Omdahl, Director

DIVISION OF HORTICULTURE
Wm. H. Shaw, Supervisor

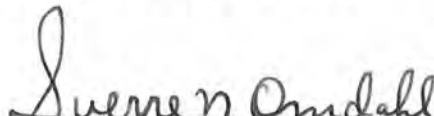
Olympia

Order No. 679
(Amending Order No. 499)

I, Sverre N. Omdahl, Director of Agriculture, by virtue of the authority vested in me by Chapter 56, Laws of 1941, do hereby order that Section 2 of Order No. 499 designating the list of primary (prohibited) and secondary (restricted) weed seed for the purpose of "The Washington State Seed Law" be amended as follows:

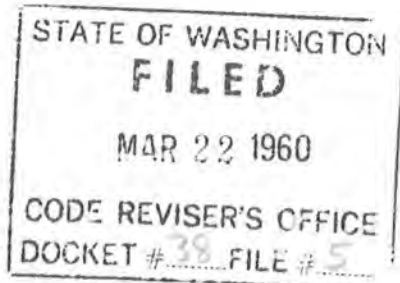
St. Johnswort or Klamath Weed (*Hypericum perforatum*)
is hereby changed from the Primary (Prohibited)
Noxious Weed Seed List to the Secondary (Restricted)
Noxious Weed Seed List.

This Order amends Order No. 499 dated July 3, 1947 and shall be effective from and after the 31st day of August, 1953.


Sverre N. Omdahl
Director of Agriculture

Dated at Olympia, Washington

August 31, 1953



16-300

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE

Joe Dwyer, Director

Olympia

SEED BRANCH

ORDER NO. 769

Effective April 1, 1958


I, Joe Dwyer, Director of Agriculture, State of Washington, after public notice and hearing held at Olympia, Washington on January 21, 1958, by virtue of authority vested in me by Section 15.48.150, Revised Code of Washington, do hereby amend the Primary and Secondary Noxious Weed Seeds List to include the following:

PRIMARY (PROHIBITED) NOXIOUS WEED SEEDS

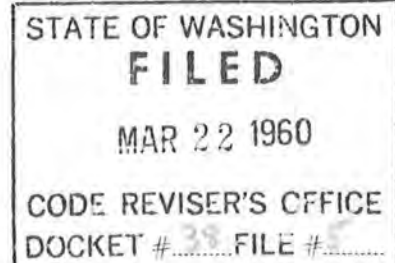
English or Common Name	Botanical or Scientific Name
Sorghum Alnum	Sorghum Alnum

SECONDARY (RESTRICTED) NOXIOUS WEED SEEDS

English or Common Name	Botanical or Scientific Name
Halogeton	Halogeton Glomeratus


JOE DWYER
Director of Agriculture
State of Washington

Signed at Olympia, Washington
February 25, 1958



STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE

Joe Dwyer, Director

Olympia

SEED DIVISION

Order No. 789

Modifying Order No. 758

Effective July 20, 1959

I, Joe Dwyer, Director of Agriculture of the State of Washington, after public notice and hearing held at Yakima, Washington on 19 June, 1959, by virtue of the authority vested in me by Section 15.48.150, Revised Code of Washington, do hereby modify Order No. 758 to read as follows:

MISCELLANEOUS CHARGES

ADD the following fees:

Tetrazolium tests \$6.00 each
Sanitary Certificates \$5.00 each

STATE OF WASHINGTON
FILED
MAR 22 1960
CODE REVISER'S OFFICE
DOCKET # 38 FILE # 5

/s/ Joe Dwyer
JOE DWYER
Director of Agriculture
State of Washington

Signed at Olympia, Washington

July 17, 1959

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE

Joe Dwyer, Director

Olympia

SEED BRANCH

ORDER NO. 758

Superseding Orders No. 614 & 702

Effective September 24, 1957

I, Joe Dwyer, Director of Agriculture, State of Washington, after due notice and hearing, by virtue of authority vested in me by Section 15.48.150, Revised Code of Washington, do hereby modify and amend Order No. 614 and Order No. 702, to read as follows:

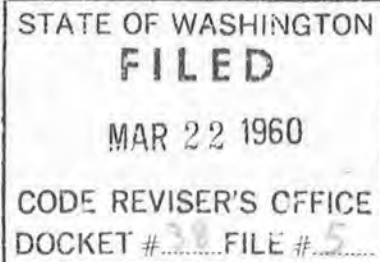
REGULATIONS UNDER WASHINGTON STATE SEED LAW
1957

Section 1

GERMINATION STANDARDS FOR VEGETABLE SEEDS

Artichoke	60	Lettuce	80
Asparagus	*70	Muskmelon	75
Beans (except Lima)	80	Mustard	75
Beans (Lima)	70	Okra	50
Beets	65	Onion	70
Broccoli	75	Parsley	60
Brussels Sprouts	70	Parsnip	60
Cabbage	75	Peas	80
Carrots	55	Pepper	55
Cauliflower	75	Pumpkin	75
Celery and Celeriac	55	Radish	75
Chicory	65	Rhubarb	60
Citron	65	Rutabaga	75
Collards	80	Salsify	75
Corn	75	Sorrel	60
Cress, garden	40	Spinach (except New Zealand) ..	60
Cress, water	25	Spinach (New Zealand)	40
Cucumber	80	Swiss Chard	65
Dandelion	45	Tomato	75
Eggplant	60	Tomato, husk	50
Endive	70	Turnip	80
Fetticus (cornsalad)	70	Watermelon	70
Kale	75	Squash	75
Kohlrabi	75		
Leek	60		

* Including hard seeds.



SAMPLING IN THE ADMINISTRATION OF THE
WASHINGTON STATE SEED LAW

General Procedure:

- (a) In order to secure a representative sample, equal portions shall be taken from evenly distributed parts of the quantity of seed or screenings to be sampled. Access shall be had to all parts of that quantity.
- (b) For free-flowing seed in bags or bulk, a probe or trier shall 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.
- (c) Non-free-flowing seed, such as certain grass seed, uncleaned seed, or screenings, difficult to sample with a probe or trier, shall be sampled by thrusting the hand into the bulk and withdrawing representative portions.
- (d) The portions shall be combined into a composite sample or samples.
- (e) As the seed or screenings is sampled, each portion shall be examined and whenever there appears to be lack of uniformity, additional samples shall be taken to show such lack of uniformity as may exist.
- (f) Bulk seeds or screenings shall 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.
- (g) Bags (1) In quantities of five bags or less each bag shall be sampled. (2) In quantities of more than five bags, at least every fifth bag but not less than five bags shall be sampled. (3) Samples shall be drawn from unopened bags except under circumstances where the identity of the seed has been preserved.
- (h) In sampling seed in packets, entire unopened packets shall be taken.
- (i) The following are minimum weights of samples of seed to be submitted for analysis, test or examination.

SCHEDULE OF CHARGES AND SIZE OF SAMPLE FOR
PURITY AND GERMINATION TESTS

All tests, including Seed Mixtures, are at the rates listed:

	Size of Sample Required	Charge for Purity Test	Charge for Germination Test
Alfalfa	4 oz.	\$ 2.00	\$ 1.50
Bentgrasses	2 oz.	6.00	2.00
Bluegrass, bulbous	4 oz.	2.00	2.00
*Bluegrasses (except bulbous and mixtures) ...	2 oz.	6.00	2.50
Bluegrass mixture			
2-way mix	2 oz.	7.50	1.50**
3-way or more	2 oz.	9.00	1.50**
Bromegrasses	6 oz.	3.50	1.50
Burnet	6 oz.	2.00	1.50
Canary grass	8 oz.	2.00	1.50
Cereals	1 lb.	2.00	1.50
Clovers, including bur & sweet clover	4 oz.	2.50	1.50
Dallisgrass	4 oz.	6.00	2.00
Fescues, Chewings and red	4 oz.	3.00	1.75
Fescues, Meadow and alta (tall)	4 oz.	2.80	1.50
Field Peas	1 lb.	2.00	1.10
Flax	1 lb.	2.00	1.50

(continued next page)

	Size of Sample Required	Charge for Purity Test	Charge for Germination Test
Forest trees	1000 seeds	\$ 2.00	\$ 2.00
Harding grass	4 oz.	2.00	1.50
Millet	8 oz.	2.00	1.50
Meadow Foxtail	4 oz.	3.50	2.00
Oatgrass	4 oz.	3.50	2.00
Orchard grass	4 oz.	3.50	2.00
Rape	8 oz.	2.50	1.50
Red top	2 oz.	6.00	2.00
Ryegrass, common, domestic or Italian	4 oz.	2.50	1.50
Ryegrass, English or perennial	4 oz.	2.50	2.00
Sudan grass	8 oz.	2.50	2.00
Sugar beets	1 lb.	1.25	1.50
Timothy	4 oz.	2.50	1.50
Treefoils	4 oz.	2.50	1.50
Vetches (except mixtures)	1 lb.	2.50	1.50
Vetch mixtures:			
2-way mix	1 lb.	3.50	1.50**
3-way or more	1 lb.	5.60	1.50**
Velvet grass	4 oz.	2.40	1.50
Wheatgrasses	4 oz.	3.50	1.50
Grass and/or legume (except vetch and bluegrass) mixture:			
2-way mix	6 oz.	4.90	1.50**
3-way or more	6 oz.	6.30	1.50**
VEGETABLES:			
Carrots	2 oz.	1.25	1.40
Beans	8 oz.	1.25	1.40
New Zealand spinach, Swiss chard, beets ...	4 oz.	1.25	1.40
Celery	1 oz.	1.25	1.40
Onion, Tomato, Pepper, Parsnip	2 oz.	1.25	1.10
Corn, Peas	8 oz.	1.25	1.10
Melons, Spinach	4 oz.	1.25	1.10
Parsley	2 oz.	1.25	1.10
Lettuce	2 oz.	1.25	1.10
Radish, Brassica spp	4 oz.	1.25	.85

* See Miscellaneous charges.

**Per Kind.

A proportionate charge will be made for seeds not enumerated.

INVENTORY TESTING FOR GERMINATION

1. The normal entry and filing system for seed samples will be bypassed. The samples will not be entered as a part of our permanent record, but will merely be entered on a card and the seed will not be filed.
2. A minimum of five samples must be sent at one time.
3. All samples must be plainly labeled "Inventory Samples".
4. Samples will be reported according to the sender's designation only. The laboratory will assume no responsibility for the identification as it appears on the report.
5. The price to be charged for this service will be one-half the regular price of the germination tests.

MISCELLANEOUS CHARGES

Examinations of samples for noxious weeds only \$1.00
Carbon copies of reports more than two05
Recopies of reports10

An extra charge of \$1.50 will be made on mixtures and low grade samples submitted for germination test only.

Very difficult samples of any seed, as well as lawn, pasture and special mixtures requiring an unusual amount of work, will be priced at \$3.00 per hour.

*Bluegrass Samples--Bluegrass samples requiring purity analysis containing over 15% inert will be charged at the rate of \$3.00 per hour. When only an estimate of the chaff and light seed content is desired, a service fee of \$1.50 will be charged for a calibrated blowing separation. This report will be an estimate only and not an official test.

Bean test plot examination for Mosaic \$5.00 each
Phyto-Sanitary Certificates \$5.00 each

JOE DWYER
Director of Agriculture
State of Washington