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UNITED STATES DEPARTMENT OF AGRICULTURE
Consumer and Marketing Service
Grain Division
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S U P P L E M E N T

T O

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APPENDIX I

EXPLANATION AND LEGEND OF SYMBOLS

Common names of kinds of weed seeds considered noxious by the State seed laws are listed alphabetically. Synonyms specifically used in certain States are shown following the preferred names. The synonyms are also shown alphabetically with cross-references to the preferred name where listed. Generally, the base root of the name is given first with the modifying term following, for example; Alyssum, hoary. Reading across the chart, the symbols in the columns under the names of States indicate prohibitions, limitations, labeling requirements, and reference to footnotes. Be sure to check exceptions noted below.

Legend of symbols

P = Prohibited

Lb = Label rate per pound of any present

Lb* = Label rate per pound if in excess of certain amounts, see footnotes

Numerals = Label rate per pound of any present, maximum permitted given

Oz = Label rate per ounce of any present

Oz* = Label rate per ounce with exceptions, check footnotes

G* = Label rate per ounce or per pound by groups of kinds given below

* = Special exceptions, check footnotes

Roman numerals = Montana only, see footnotes

2oz = Hawaii only, see footnotes

1% = Hawaii only, see footnotes

Groups of kinds of agricultural seed labeled per ounce or per pound

A = Bentgrasses, redtop, bluegrasses, timothy, bermudagrass, orchardgrass, rhodesgrass, dallisgrass, reed canarygrass, fescues (except meadow fescue), white clover, alsike clover, and seeds of similar size, generally of which 25 or 25 grams are required to be examined for noxious-weed seeds.

B = Ryegrasses, meadow fescue, foxtail millet, wheatgrasses, smooth brome, alfalfa, red clover, sweetclover, lespedezas, mustards, rapes, flax, and seeds of similar size, generally those of which 50 or 100 grams are required to be examined for noxious-weed seeds.

C = Proso millet, sudangrass, and seeds of similar size, generally those of which 150 grams are required to be examined for noxious-weed seeds.

D = Wheat, oat, barley, rye, sorghum, buckwheat, vetches, corn, bean, pea, cowpea, soybean, and seeds of similar size, generally those of which 300 or 500 grams are required to be examined for noxious-weed seeds.

Footnotes by States

Lb* IDAHO - Maximum 45 per pound in groups A and B, 15 per pound in group C, and 5 per pound in group D.

MICHIGAN - Buckhorn plantain and yellow rocket seeds must be labeled only when in excess of 90 per pound, with a maximum of 1 to 1,000 agricultural seeds permitted.

PENNSYLVANIA - Label rate per pound of any present. Maximum of one seed in each five grams of groups A and B or one seed in each 100 grams of groups C & D, except buckhorn plantain for which the limit is 5 seeds in each 5 grams of groups A and B and 5 seeds in each 100 grams of groups C and D.

NEVADA - Label rate per pound if any present in excess of 45 per pound in groups A and B., 18 per pound in group C, and 5 per pound in group D. Mixtures, label rate per pound if any present in excess of one in 15 grams. Note: Millets, rapes and flax included in group C instead of B.

NORTH DAKOTA - Dodder and quackgrass, label rate per pound of any present in excess of 21 per pound. Mustards, frenchweed, wild morningglory, and wild oat, label rate per pound of any present in excess of 31 per pound.

WASHINGTON - Label rate per pound if present in excess of one in 10 grams of group A, one in 25 grams of group B, and one in 100 grams of group D. (No requirements given in law for labeling group C.) Note: Meadow fescue included in group A instead of B.

WISCONSIN - Label rate per ounce if present in excess of one seed in the amount required to be examined. Maximums, one per 5 grams if 25 grams examined, one per 10 grams if 35 or 50 grams examined, one per 25 grams if 150 grams examined, one per 50 grams if 300 grams examined, and one per 100 grams if 500 grams examined.

WYOMING - Maximum 45 per pound in groups A, B, and C, and 5 per pound in group D.

Oz* VIRGINIA - Maximums, wild radish one per ounce; wild onion, wild garlic, and bermudagrass 2 per ounce (except wild onion and wild garlic, 5 per ounce in orchardgrass); dodder and giant foxtail 4 per ounce; and wild mustards 15 per ounce.

G* DELAWARE - Label rate per ounce in groups A and B per pound in groups C and D. Maximum 10 per ounce and 10 per pound, respectively.

ILLINOIS - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of group A, one in 10 grams of group B, one in 25 grams of group C, and one in 100 grams of group D. Maximum, one per 1,000 crop seeds.

IOWA - Label rate per ounce in groups A, B, and C, and per pound in group D if present in excess of 5 per ounce of group A, 3 per ounce of group B, one per ounce of group C, and 5 per pound of group D. Lawn seeds, label rate either per ounce or per pound of any present.

MAINE - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 500 per pound, singly or collectively.

MARYLAND - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 16 per ounce or 16 per pound, respectively, singly or collectively.

MINNESOTA - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 2 per ounce or 25 per pound, respectively, singly or collectively.

MISSOURI - Label rate per ounce in groups A, B, and C, and per pound in group D if present in excess of 5 per ounce in group A, 3 per ounce in group B, (except 9 seeds of giant foxtail in lespedeza seed) one per ounce in group C, and 5 per pound in group D. Note: Vetches included in group C instead of D.

NEBRASKA - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of group A or B, one in 25 grams of group C, and one in 100 grams of group D.

NEW HAMPSHIRE - Label rate per ounce in groups A and B and per pound in groups C and D.

NEW MEXICO - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of group A, one in 10 grams of group B, one in 25 grams of group C, and one in 100 grams of group D.

OHIO - Label rate per ounce in groups A, B, and C, and per pound in group D if present in excess of one in 5 grams of groups A and B, one in 25 grams of group C, and one in 100 grams of group D. Note: Millets, rapes, and flax included in group C instead of B.

RHODE ISLAND - Label rate per ounce in groups A and B and per pound in groups C and D.

SOUTH DAKOTA - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 10 grams of group A, one in 25 grams of group B, one in 50 grams of group C, and one in 100 grams of group D.

UTAH - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 45 per pound of any one kind.

WEST VIRGINIA - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of 90 per pound.

2oz HAWAII - Primary noxious-weed seeds, label rate per ounce. Maximum 2 per ounce singly or collectively.

1% HAWAII - Secondary noxious-weed seeds, label rate per pound. Maximum one percent, singly or collectively.

ROMAN NUMERALS - MONTANA - Label rate per pound of I (Maximum 9 per pound), of II if present in excess of 9 per pound singly or collectively, and of III if present in excess of 45 per pound singly or collectively. Mixtures, label percentage if any present in excess of 9 per pound.

* ALABAMA - Johnsongrass and sorghum alnum, or hybrid derivatives of these, collectively, limited to 100 per pound.

ARKANSAS - Red rice, curly indigo, and tall indigo only noxious when occurring in rice seed, and then limited to 15 per pound. Maximum for wild garlic and/or wild onion is 18 per pound in seeds requiring less than 300-gram examinations, and 2 per pound in kinds requiring 300 grams or more to be examined for noxious-weed seeds. Bromus commutatus shall not be considered a noxious-weed seed when occurring in smooth brome seed.

CONNECTICUT - Bedstraw, dock and plantain (other than broad-leaf, blackseed, and buckhorn plantain) not noxious in lawn seed mixtures. Annual bluegrass not noxious in lawn seed mixtures if labeled as a component.

FLORIDA - Maximum of 27 johnsongrass and/or sorghum alnum and 100 per pound of dock seeds (3 species combined).

KANSAS - Cheat or chess limited to 90 per pound except in native grasses, smooth brome, fescues, and orchardgrass, then not to exceed 1,000 per pound.

MICHIGAN - Maximum of one noxious-weed to 2,000 agricultural seeds, except yellow rocket and buckhorn plantain which are limited to one to 1,000 agricultural seeds.

MISSISSIPPI - Johnsongrass and sorghum alnum, or hybrid derivatives of these, collectively, limited to 100 per pound.

NEW YORK - Annual bluegrass seeds considered noxious only in lawn seeds, and then only when not labeled as a kind of seed in the mixture.

NORTH CAROLINA - Johnsongrass seed prohibited except in lespedeza seed, then it shall not exceed 100 seeds per pound and the labels shall bear, in red letters, "contains johnsongrass." Dock includes Rumex crispus and/or R. obtusifolius, label rate per pound if any present, maximum 300 per pound.

OKLAHOMA - Johnsongrass includes sorghum alnum and any indistinguishable seeds, limited to 100 per pound except not to exceed 500 per pound in alfalfa and chaffy native grasses. Maximum noxious-weed seeds 500 except 1,000 per pound in chaffy native grasses.

OREGON - Maximum 18 per pound of starthistle (4 species combined).

TENNESSEE - Johnsongrass or any indistinguishable seed is prohibited. Wild onion not to exceed 10 per pound in small grain or vetches and 13 per pound in other kinds. Buckhorn plantain limited to 250 per pound and all others limited to 50 per pound, singly or collectively, in alsike clover, white clover, ladino clover, and red clover seed, subject to other limitations.

TEXAS - Johnsongrass limited to 100 per pound except in seed labeled "pasture mixture," and then also exempt from maximum total of 500. Seed containing in excess of 100 primary noxious-weed seeds, 300 secondary noxious-weed seeds, or a total of 500 primary and secondary noxious-weed seeds is prohibited from sale.

WEST VIRGINIA - Dodder seeds prohibited except 90 per pound permitted in lespedezas. Wild onion seeds or bulblets prohibited except 90 per pound permitted in orchardgrass seed.

APPENDIX II

HAWAII ONLY

Prohibited

Acuate	Lagascea mollis
Canegrass	Miscanthus japonicus
Gaura	Gaura spp.
Orse	Ulex europaeus
Kogon	Imperata cylindrica
Loco weed	Astragalus spp. or Oxytropis spp.
Marabu	Dichrostachys nutans
Mile-a-minute vine	Mikania micrantha
Passion flower, winged-leaf	Passiflora pulchella
Pepper, hooked spiked	Piper aduncum
Piripiri	Acaena sanguisorbae
Povertygrass	Aristida spp.
Povertyweed	Franseria spp.
Sensitive plant, giant	Mimosa invisa
Snakeroot, white	Eupatorium rugosum
Terongan	Solanum torvum
Torpedograss	Panicum repens
Witchweed	Striga spp.

Primary, label rate per ounce, maximum 2 per ounce

Aramina	Urena lobata
Barbwiregrass	Cymbopogon refractus
Bur bush	Triumfetta bartramia
Crotolaria, long-beaked	Crotolaria longistrostrata
Curse	Clidemia hirta
Elephantopus	Elephantopus spp.
Emex	Emex australis or E. Spinosa
Fountaingrass	Pennisetum setaceum
French broom	Cytisus monspessulanus
German ivy	Senecio mikanoides
Hamakua pamakani	Eupatorium riparium
Kahili flower	Grevillea banksii
Malachra	Malachra alceaefolia
Marigold, wild	Tagetes minuta
Maui pamakani	Eupatorium adenophorum
Melastoma	Melastoma malabathricum
Milkweed	Asclepias spp.
Needlegrass	Stipa spp.
Nettle, stinging	Hesperocnide sandwicensis
Rhodomirtus	Rhodomirtus tomentosa
Sacramento bur	Triumfetta semitriloba
Scotch broom	Cytisus scoparius
Spanish broom	Spartium junceum

Spikenard, wild
Spurge, toothed
Star bur
West-Indian foxtailgrass

Hyptis suaveolens
Euphorbia serrata
Acanthospermum hispidum
Andropogon bicornis

Secondary, label rate per pound, maximum 1%.

Barley, wild
Black-eyed susan
Jaragua grass
Khaki weed
Knotweed, smartweed or
ladysthumb
Mullein
Sandbur
Stargrass, Australian

Hordeum spp.
Rudbeckia hirta
Hyperrhenia rufa
Alternanthera repens

Polygonum spp.
Verbascum thapsus
Cenchrus spp.
Chloris divaricata

APPENDIX III

Cross-index alphabetically by scientific name

Abutilon theophrasti	butterprint
Acaena sanguisorbia	piripiri
Acanthospermum hispidum	star bur
Aegilops triuncialis	goatgrass
Aeschynomene indica	curly indigo or ding ding
<u>Aeschynomene virginica</u>	
Agropyron repens	quackgrass
Agrostemma githago	corncockle
Alhagi pseudalhagi	camelthorn
<u>Alhagi camelorum</u>	
Allium spp.	wild garlic or wild onion
Allium canadense	wild garlic or wild onion
Allium vineale	wild garlic or wild onion
Alternanthera repens	kahki weed
Ambrosia psilostachya	perennial ragweed
Andropogon bicornis	West-Indian foxtailgrass
Arctium minus	burdock
Aristida spp.	povertygrass
Asclepias spp.	milkweed
Asclepias labriformis	labriform milkweed
Asclepias subverticillata	whorled milkweed
Asclepias verticillata	whorled milkweed
<u>Asclepias galioides</u>	
Astragalus spp.	loco weed
Avena fatua	wild oat
Bassia hyssopifolia	fivehook bassia
Barbarea vulgaris	yellow rocket
<u>Campe vulgaris</u>	<u>bitter wintercress</u>
Berberis spp.	barberry
Berteroa incana	hoary alyssum
Brassica spp.	wild mustard
	<u>wild turnip</u>
Brassica campestris	bird rape
Brassica juncea	Indian mustard
Brassica kaber	wild mustard
<u>Brassica arvensis</u>	<u>charlock</u>
Brassica nigra	black mustard
Bromus commutatus	cheat or chess
Bromus secalinus	cheat or chess
Bromus tectorum	downy bromegrass
Calonyctium muricatum	moonflower or giant morningglory
Cannabis sativa	marihuana
Cardaria draba	whitetop

<u>Lepidium draba</u>	<u>hoary cress</u>
<u>Lepidium repens</u>	<u>perennial peppergrass</u>
Cardaria pubescens	hairy whitetop
<u>Hymenophyssa pubescens</u>	<u>whitetop</u>
	<u>hoary cress</u>
	<u>perennial peppergrass</u>
Carduus spp.	plumeless thistle
Carduus nutans	musk thistle or nodding thistle
Carduus pycnocephalus	Italian thistle
<u>Carduus tenuiflorus</u>	
Cenchrus spp.	sandbur
Cenchrus pauciflorus	sandbur
Centaurea calcitrapa	purple starthistle
Centaurea diffusa	diffuse knapweed
Centaurea iberica	Iberian starthistle
Centaurea maculosa	spotted knapweed
Centaurea melitensis	Malta starthistle
Centaurea picris	Russian knapweed
<u>Centaurea repens</u>	
Centaurea solstitialis	yellow starthistle
Centaurea squarrosa	squarrose knapweed
Chloris divericata	Australian stargrass
Chondrilla juncea	yellow-flowering skeletonweed
Chorispora tenella	blue mustard
	tenella
Chrysanthemum leucanthemum	oxeye daisy
Cicuta spp.	water hemlock
Cirsium arvense	Canada thistle
Clidemia hirta	curse
Cnicus benedictus	blessed thistle
Conium maculatum	poison hemlock
Convolvulus spp.	bindweed
Convolvulus arvensis	field bindweed or bindweed
	<u>wild morningglory</u>
	<u>European morningglory</u>
Convolvulus sepium	hedge bindweed
	<u>wild morningglory</u>
Crotolaria spp.	crotolaria
Crotolaria longistrostrata	long-beaked crotolaria
Crotolaria mucronate	mucronate crotolaria
Crotolaria spectabilis	showy crotolaria
Cuscuta spp.	dodder
Cymbopogon retractus	barbwiregrass
Cynodon spp.	bermudagrass
Cynodon sp.	giant bermudagrass
Cynodon dactylon	common bermudagrass
Cynoglossum officianale	houndstongue
Cyperus spp.	nutgrass
Cyperus esculentus	yellow nutgrass
Cyperus rotundus	perennial nutgrass

Cytisus monspessulanus	French broom
Cytisus scoparius	Scotch broom
Daucus carota	wild carrot
Dichrostachys nutans	marabu
Digitaria ischaemum	crabgrass
Digitaria sanguinalis	crabgrass
Elephantopus spp.	elephantopus
Elymus caput-medusae	medusahead (rye)
Emex australis	emex
Emex spinosa	emex
Eupatorium adenophorum	maui pamakani
Eupatorium riparium	hamakua pamakani
Eupatorium rugosum	white snakeroot
Euphorbia esula	leafy spurge
Euphorbia lucida	leafy spurge
Euphorbia serrata	toothed spurge
Franseria spp.	franseria
	<u>povertyweed</u>
Franseria discolor	whiteleaf franseria
	<u>silverleaf franseria</u>
	<u>bur ragweed</u>
	<u>creeping ragweed</u>
	<u>povertyweed</u>
Franseria tomentosa	woollyleaf franseria
	<u>bur ragweed</u>
Galega officianalis	goatsrue
Gallium spp.	bedstraw
Gaura spp.	gaura
Gaura coccinea	scarlet gaura
Gaura sinuata	wavyleaf gaura
Gaura villosa	hairy gaura
Grevillea banksii	kahili flower
Halogeton glomeratus	halogeton
Helianthus ciliaris	Texas blueweed or blueweed
Hesperocnide sandwicensis	stinging nettle
Hieraceum spp.	hawkweed
Hoffmanseggia densiflora	pignut or Indian rushpea
Hordeum spp.	wild barley
Hyparrhenia rufa	jaragua grass
Hypericum perforatum	St. Johnswort
	<u>klamathweed</u>
Hyptis suaveolens	wild spikenard
Imperata cylindrica	kogon
Ipomoea spp.	morningglory
Ipomoea hederacea	ivyleaf morningglory
Ipomoea purpurea	wild morningglory
Iva axillaris	povertyweed
	<u>mouse-ear povertyweed</u>
	<u>sumpweed</u>
	<u>deathweed</u>

Lactuca pulchella	blue lettuce or blue-flowering lettuce
Lagascea mollis	acuate
Lepidium campestre	field peppergrass
Lepidium latifolium	perennial peppergrass <u>whitetop</u>
Linaria dalmatica	Dalmatian toadflax
Linaria vulgaris	yellow toadflax
Lolium temulentum	darnel
Lychnis alba	white cockle
Mahonia spp.	barberry
Malachra alceaefolia	malachra
Melastoma malabathricum	melastoma
Mikania micrantha	mile-a-minute vine
Mimosa invisa	giant sensitive-plant
Miscanthus japonicus	canegrass
Oryza sativa	red rice
Oxytropis spp.	loco weed
Panicum repens	torpedograss
Passiflora pulchella	wingleaf passion flower
Pennisetum setaceum	fountaingrass
Physalis lobata	purple-flowered groundcherry
Physalis longifolia	perennial groundcherry
<u>Physalis subglabrata</u>	
Piper aduncum	hooked spiked pepper
Plantago spp.	plantain
Plantago aristata	bracted plantain
Plantago lanceolata	buckhorn plantain or buckhorn
Poa annua	annual bluegrass
Polygonum spp.	knotweed, smartweed or ladythumb
Polygonum coccineum	swamp smartweed
Raphanus raphanistrum	wild radish
Rhodomyrtus tomentosa	rhodomyrtus
Rhynchospora spp.	spearhead
Roemeria retracta	Roemer poppy
Rorippa austriaca	Austrian fieldcress
Rudbeckia hirta	blackeyed susan
Rumex spp.	dock
Rumex acetosella	sheep sorrel
Rumex altissimus	smooth dock
Rumex conglomeratus	cluster dock
Rumex crispus	curley dock
Rumex obtusifolius	broadleaf dock
Salsola kali var. tenuifolia	Russian thistle
<u>Salsola pestifer</u>	
Salvia aethiopis	Mediterranean sage
Senecio jacobaea	tansy ragwort
Senecio mikanioides	German ivy
Sesbania exaltata	tall indigo or coffeebean

Setaria faberi	giant foxtail
Sida hederacea	alkali mallow
Solanum carolinense	Carolina horsenettle or horsenettle bull nettle
Solanum elaeagnifolium	white horsenettle <u>silverleaf nightshade</u> <u>purple nightshade</u>
Solanum nigrum	black nightshade
Solanum villosum	hairy nightshade
Solanum rostratum	buffalo bur
Solanum torvum	terongan
Sonchus arvensis	perennial sowthistle
Sorghum spp.	sorghum, perennial, such as but not limited to johnson- grass, sorghum almum, and perennial sweet sudangrass
Sorghum sp.	sorghum
Sorghum almum	sorghum almum
Sorghum halepense	johnsongrass
Spartium junceum	Spanish broom
Stachys palustris	woundwort
Stipa spp.	needlegrass
Striga spp.	witchweed
Striga asiatica	witchweed
Swainsonia salsula	Austrian peaweed
Tagetes minuta	wild marigold
Thlaspi arvense	pennycress <u>fanweed</u> <u>frenchweed</u>
Tribulus terrestris	puncturevine
Triumfetta bartramia	bur bush
Triumfetta semitriloba	Sacramento bur
Ulex europaeus	gorse
Urena lobata	aramino
Verbascum thaspus	mullein
Xanthium spp.	cocklebur
Xanthium orientale (commune)	cocklebur
Zygophyllum fabago	Syrian beancaper



