

MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

SECRETARIA DE DEFESA AGROPECUÁRIA

INSTRUÇÃO NORMATIVA Nº 39, DE 1 DE OUTUBRO DE 2018

O SECRETÁRIO DE DEFESA AGROPECUÁRIA, SUBSTITUTO, DO MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO, no uso das atribuições que lhe conferem os arts. 18 e 53 do Anexo I do Decreto n.º 8.852, de 20 de setembro de 2016, tendo em vista o disposto no Decreto n.º 24.114, de 12 de abril de 1934, no Decreto n.º 1.355, de 30 de dezembro de 1994, no Decreto n.º 5.759, de 17 de abril de 2006, na Instrução Normativa n.º 23, de 2 de agosto de 2004, na Instrução Normativa n.º 6, de 16 de maio de 2005, na Instrução Normativa n.º 45, de 29 de agosto de 2018 e o que consta do Processo n.º 21000.30910/2018-24, resolve:

Art. 1º Estabelecer, na forma do Anexo desta Instrução Normativa, a lista de Pragas Quarentenárias Ausentes (PQA) para o Brasil.

Parágrafo único. A divulgação da lista de que trata o caput e de suas atualizações será feita periodicamente, por meio digital, no portal institucional do MAPA - www.agricultura.gov.br.

Art. 2º Esta Instrução Normativa entra em vigor na data de sua publicação.

ANEXO

PRAGAS QUARENTENÁRIAS AUSENTES - PQA

ACARINA

Acarus siro

Aceria oleae

Aleuroglyphus beklemishevi

Amphitetranychus viennensis (Tetranychus viennensis)

Brevipalpus chilensis

Brevipalpus cuneatus

Brevipalpus lewisi

Calacarus citrifolii

Cenopalpus pulcher

Cheiracus sulcatus

Eotetranychus carpini

Eotetranychus lewisi

Epitrimerus pyri

Eutetranychus orientalis
Halotydeus destructor
Microtydeus hylinus
Oligonychus afrasiaticus
Oligonychus bicolor
Rhizoglyphus robini
Rhizoglyphus setosus
Steneotarsonemus panshini
Steneotarsonemus spinki
Tarsonemus cuttacki
Tenuipalpus punicae
Tetranychus kanzawai
Tetranychus mcdanieli
Tetranychus pacificus
Tetranychus truncatus
Tetranychus turkestanii

BLATTODEA

Microtermes spp.
Croptotermes spp.

COLEOPTERA

Acalymma vittatum
Aegorhinus phaleratus
Aegorhinus superciliosus
Agrius sinuatus
Agriotes lineatus
Agriotes mancus
Alaus oculatus

Alcidodes sedi

Alphitobius laevigatus

Ampedus collaris

Amphicerus bimaculatus

Anoplophora spp.

Anthonomus spp.(exceto *A. grandis* e *A. tomentosus*)

Brachycerus spp.

Brontispa longissima

Bruchidius spp.

Bruchus spp.

Byturus tomentosus

Callidiellum rufipenne

Callosobruchus chinensis

Caryedon serratus

Chaectonema basalis

Conoderus vespertinus

Conotrachelus nenuphar

Cryptorhynchus lapathi

Dendroctonus spp.

Dexicrates robustus

Diabrotica balteata

Diabrotica barberi

Diabrotica undecimpunctata howardi

Diabrotica virgifera virgifera

Diocalandra frumenti

Diocalandra taitense

Epicaerus cognatus

Eutyrrhinus meditabundus

Haptoncus luteolus
Holotrichia serrata
Hylesinus oleiperda
Hylobius abietis
Hylobius pales
Hylotrupes bajulus
Ips spp.
Latheticus oryzae
Leptinotarsa decemlineata
Limonius californicus
Lissorhoptrus oryzophilus
Melanotus communis
Melolontha melolontha
Monochamus spp.
Monolepta australis
Nathrius brevipennis
Odoiporus longicollis
Oothea bennigseni
Oothea mutabilis
Orthorrhinus klugii
Oryctes rhinoceros
Osphilia tenuipes
Otiorhynchus cribricollis
Otiorhynchus ligustici
Otiorhynchus ovatus
Otiorhynchus rugosostriatus
Otiorhynchus sulcatus
Pagiocerus frontalis
Palorus ratzeburgi

Phonapate frontalis
Phyllophaga spp.
Plocaederus ferrugineus
Popillia japonica
Premnotrypes spp.
Prostephanus truncatus
Rhabdoscelus obscurus
Rhizotrogus majalis
Rhynchophorus ferrugineus
Rhyparida caeruleipennis
Rhyparida clypeata
Rhyparida discopunctulata
Saperda spp.
Sinoxylon spp. (exceto *S. unidentatum*)
Sitophilus granarius
Smicronys sordidus
Smicronyx fulvus
Sphenophorus venatus
Stegobium paniceum
Tetropium fuscum
Thorictodes heydeni
Tomicus piniperda
Trogoderma spp.
Tropinota squalida
Vesperus luridus
Vesperus xatarti
Xyleborus dispar
Xylopertha retusa

DIPTERA

Acanthiophilus helianthi

Anastrepha ludens

Anastrepha suspensa

Atherigona soccata

Bactrocera spp. (exceto *B. carambolae*)

Ceratitis spp. (exceto *C. capitata*)

Chromatomyia horticola

Contarinia pyrivora

Contarinia tritici

Dacus spp.

Delia spp. (exceto *D. platura*)

Eumerus strigatus

Liriomyza bryoniae

Mayetiola destructor

Neosilba batesi

Ophiomyia phaseoli

Orseolia oryzae

Orseolia oryzivora

Prodiplosis longifila

Rabdophaga saliciperda (*Helicomyia saliciperda*)

Rhagoletis spp. (exceto *R. adusta*, *R. blanchardi*, *R. ferruginea*, *R. macquarti*)

Sitodiplosis mosellana

Tipula paludosa

Toxotrypana curvicauda

HEMIPTERA

Aleurocanthus spp. (exceto *A. woglumi*)

Aleurodicus floccissimus (*Lecanoideus floccissimus*)
Anoplocnemis curvipes
Aonidiella citrina
Aphis punicae
Blissus insularis
Cacopsylla pyri
Ceresa alta
Ceroplastes destructor
Ceroplastes japonicus
Ceroplastes rubens
Ceroplastes rusci
Cicadulina mbila
Clavigralla shabadi
Clavigralla tomentosicollis
Crisicoccus matsumotoi
Dialeurodes citri
Diaspidiotus ostreaeformis
Diaspidiotus pyri
Diuraphis noxia
Dysaphis pyri
Dysdercus superstitiosus
Eulecanium tiliae
Eurigaster integriceps
Helopeltis anacardii
Helopeltis antonii
Helopeltis bradyi
Helopeltis schoutedeni
Homalodisca vitripennis (*Homalodisca coagulata*)

Homoecerus pallens
Icerya aegyptiaca
Icerya seychellarum
Lepidosaphes chinensis
Leptocoris rufomarginata
Leptocoris tagalica
Mercetaspis halli
Metcalfa pruinosa
Nipaecoccus viridis
Parlatoria pseudaspidiotus
Perkinsiella saccharicida
Philaenus spumarius
Piezodorus lituratus
Planchonia stentae
Planococcoides njalensis
Planococcus kraunhiae
Planococcus lilacinus
Pollinia pollini
Prosapia bicincta
Pseudococcus calceolariae
Pseudotheraptus devastans
Pseudotheraptus wayi
Rastrococcus invadens
Riptortus dentipes
Scaphoideus titanus
Siphoninus phillyreae
Targionia vitis
Thysanofiorinia nephelii (*Fiorinia nephelii*)
Unaspis yanonensis

HYMENOPTERA

Ametastegia glabrata

Cephus cinctus

Cephus pygmaeus

Hoplocampa brevis

Megastigmus spp. (Exceto *M. transvaalensis* e *M. brasiliensis*)

Nematus desantisi

Neodiprion spp.

Systole albipennis

Tremex spp.

LEPIDOPTERA

Acrobasis pyrivorella

Adoxophyes orana

Agrius convolvuli

Agrotis lineatus

Agrotis segetum

Amsacta lactinea

Amyelois transitella

Anarsia lineatella

Apomyelois ceratoniae (*Ectomyelois ceratoniae*)

Archips spp.

Argyrogramma signata

Argyrotaenia pulchellana

Batrachedra amydraula

Cacoecimorpha pronubana

Carposina sasakii (*Carposina niponensis*)

Cephonodes hylas
Chilecomadia moorei
Chilecomadia valdiviana
Chilo partellus
Chilo supressalis
Choristoneura spp.
Conogethes punctiferalis
Conopomorpha cramerella
Copitarsia consueta
Copitarsia naenoides
Copitarsia turbata
Cossus cossus
Cryptophlebia ombrodelta
Cydia spp. (exceto *C. araucariae*)
Deilephila elpenor
Diaphania indica
Dyspessa ulula
Earias biplaga
Eldana saccharina
Epichoristodes acerbella
Epiphyas postvittana
Erionota thrax
Eudocima fullonia (*Othreis fullona*)
Eupoecilla ambiguella
Euzophera bigella
Gortyna xanthenes
Grapholita dimorpha
Grapholita funebrana
Hedya dimidioalba

Hippotion celerio
Hyphantria cunea
Ichneumenoptera chrysophanes
Keiferia lycopersicella
Lampides boeticus
Leucinodes orbonalis
Leucoptera malifoliella
Leucoptera meyricki
Lobesia botrana
Lymantria dispar
Lymantria monacha
Malacosoma spp.
Mythima separata
Mythimna loreyi
Nacoleia octasema
Orgyia postica
Ostrinia furcanalis
Ostrinia nubilalis
Pandemis heparana
Paranthrene tabaniformis
Parasa lepida
Pectinophora scutigera
Pediatria trisecta
Peribatodes rhomboidaria
Platynota stultana
Prays citri
Proeulia auraria
Proeulia chrysopteris

Rhyacionia spp.

Scirpophaga incertulas

Sesamia inferens

Sparganothis pilleriana

Spilonota albicana

Spilonota ocellana

Spodoptera albula

Spodoptera exigua

Spodoptera littoralis

Spodoptera litura

Thaumetopoea pityocampa

Thaumatotibia leucotreta (*Cryptophlebia leucotreta*)

Vitaceae polistiformis

Xestia c-nigrum

Zeuzera pyrina

ORTHOPTERA

Atractomorpha psittacina

Gryllotalpa gryllotalpa

Schistocerca gregaria

PSOCOPTERA

Liposcelis paeta

THYSANOPTERA

Dichromothrips corbetti

Drepanothrips reuteri

Frankliniella bispinosa

Frankliniella intonsa

Haplothrips aculeatus
Limothrips cerealium
Limothrips denticornis
Pezothrips kellyanus
Scirtothrips aurantii
Scirtothrips dorsalis
Scirtothrips inermis
Scirtothrips mangiferae
Thrips hawaiiensis

FUNGI E OOMYCOTA

Albugo macrospora
Albugo tragopogonis
Alternaria gaisen
Alternaria gossypina
Alternaria linicola
Alternaria triticina
Alternaria vitis
Apiosporina morbosa
Armillaria luteobubalina
Armillaria ostoyae
Arthuriomyces peckianus
Ascochyta sorghi
Atelocauda digitata
Balansia clavula
Balansia oryzae-sativae (*Ephelis oryzae*)
Boeremia foveata (*Phoma exiguavar.foveata*)
Botryosphaeria berengeriana f.sp. pyricola

Botrytis elliptica

Botrytis fabae

Botrytis tulipae

Ceratobasidium cereale (*Rhizoctonia cerealis*)

Cercospora insulana

Chondrostereum purpureum

Cilioplea fulgurata (*Teichospora fulgurata*)

Cladosporium cladosporioides f.sp.*pisicola*(*Cladosporium pisicola*)

Cladosporium gossypicola

Cladosporium variabile

Colletotrichum echinocloa

Colletotrichum higginsianum

Colletotrichum impatientis

Colletotrichum kahawae

Colletotrichum linicola

Coniella diplodiella

Coniothyrium glycines (*Pyrenochaeta glycines*;*Dactuliochaeta glycines*)

Coniothyrium hellebori

Cryptosporiopsis sp.

Cronartium spp.

Curvularia australiensis (*Bipolaris australiensis*)

Curvularia uncinata

Curvularia verruculosa

Cylindrosporium phalaenopsidis

Desarmillaria tabescens (*Armillaria tabescens*)

Diaporthe tanakae

Dichotomophthoropsis safeeulaensis

Didymella zae-maydis (*Mycosphaerella zae-maydis*)

Discosia maculicola

Discula pyri (Phacidiopycnis pyri)

Drepanopeziza populi-albae (Marssonina castagnei)

Drepanopeziza populorum (Marssonina populi)

Drepanopeziza punctiformis (Marssonina brunnea)

Endocronartium harknessii

Epichloe coenophiala (Neotyphodium coenophialum)

Fusarium camptoceras

Fusarium circinatum (Gibberella circinata)

Fusarium crookwellense

Fusarium oxysporum f.sp.asparagi

Fusarium oxysporum f.sp.carthami

Fusarium oxysporum f.sp.cubenseraça 4 tropical (R4T) (Grupo de Compatibilidade vegetativa: 01213/16)

Fusarium oxysporum f.sp.lagenariae

Fusarium oxysporum f.sp.lilii

Fusarium oxysporum f.sp.ranunculi

Fusarium oxysporum f.sp.spinaciae

Fusarium paspali

Fusarium redolens

Fusarium roseum (Gibberella pulicaris)

Fusarium xylarioides (Gibberella xylarioides)

Gibellulopsis nigrescens (Verticillium nigrescens)

Globisporangium paroecandrum (Pythium paroecandrum)

Globisporangium sylvaticum (Pythium sylvaticum)

Gloeotinia granigena

Glomerella manihotis

Guignardia baccae

Guignardia fulvida

Gymnosporangium spp.

Haplobasidium musae
Helicobasidium longisporum (*Helicobasidium mompa*)
Helicoceras spp.
Hemileia coffeicola
Hendersonia oryzae
Heterobasidium annosum
Hymenoscyphus scutula
Hymenula cerealis (*Cephalosporium gramineum*)
Kabatiella lini (*Polyspora lini*)
Lecanosticta acicola (*Mycosphaerella dearnessii*)
Leptographium procerum
Leptosphaeria libanotis
Marasmius palmivorus
Marssonina occidentalis
Melampsora sp.
Metasphaeria aulica
Monilinia fructigena
Monilinia vaccinii-corymbosi
Moniliophthora roreri
Monosporascus eutypoides
Mycocentrospora acerina
Mycosphaerella gibsonii
Mycosphaerella rabiei (*Didymella rabiei*)
Nectria cinnabarina
Neofabraea vagabunda (*Neofabraea alba*)
Neonectria obtusispora (*Cylindrocarpon obtusisporum*)
Neottiosporina paspali (*Stagonospora paspali*)
Oospora oryzae
Periconia circinata

Peronosclerospora sacchari

Peronospora farinosa

Peronospora impatientis

Peronospora viciae

Phaeosphaerella paspali

Phomopsis impatientis

Phomopsis orchidophila

Phyllosticta solitaria

Phymatotrichopsis omnivora

Phytophthora erythroseptica (*Phytophthora erythrosepticavar.erythroseptica*)

Phytophthora fragariae

Phytophthora megasperma

Phytophthora ramorum

Phytophthora syringae

Plasmopara constantinescui (*Bremiella sphaerosperma*)

Plasmopara obducens

Plenodomus tracheiphilus (*Phoma tracheiphila*)

Podosphaera aphanis

Podosphaera balsaminae

Podosphaera fusca (*Sphaerotheca fusca*)

Polyscytalum pustulans (*Oospora pustulans*)

Protomyces macrosporus

Pseudopezicula tracheiphila (*Pseudopeziza tracheiphila*)

Puccinia argentata (*Puccinia impatientis*)

Puccinia carthami

Puccinia erianthi

Puccinia komarovii

Puccinia rubigo-vera f.sp.*impatientis*

Pyrenophora graminea
Pythium tracheiphilum
Ramularia collo-cygni
Rhizoctonia theobromae (*Oncobasidium theobromae*)
Sclerospora graminicola
Septoria citri
Septoria noli-tangere
Sphaerulina phalaenopsidis
Sporisorium sacchari (*Sphacelotheca sacchari*)
Stagonospora sacchari
Stagonosporopsis andigena (*Phoma andigena*)
Synchytrium endobioticum
Synchytrium impatiens
Taphrina populina
Thecaphora solani (*Angiosorus solani*)
Tilletia indica
Tilletia laevis
Trematosphaeria pertusa
Urocystis agropyri
Valsa nivea
Venturia populina

NEMATODA

Anguina agrostis
Anguina pacificae
Anguina tritici
Aphelenchoides blastophthorus
Belonolaimus longicaudatus
Bursaphelenchus mucronatus

Bursaphelenchus xylophilus

Criconema mutabile

Ditylenchus africanus

Ditylenchus angustus

Ditylenchus destructor

Ditylenchus dipsaci (todas as raças, exceto as do alho)

Ditylenchus emus

Ditylenchus equalis

Ditylenchus fotedari

Globodera pallida

Globodera rostochiensis

Heterodera avenae

Heterodera cajani

Heterodera ciceri

Heterodera goettingiana

Heterodera mediterranea

Heterodera oryzae

Heterodera oryzicola

Heterodera sacchari

Heterodera schachtii

Heterodera trifolii

Heterodera zeae

Longidorus attenuatus

Longidorus elongatus

Meloidogyne chitwoodi

Meloidogyne fallax

Nacobbus aberrans

Nacobbus dorsalis

Pratylenchus fallax
Pratylenchus goodeyi
Pratylenchus pratensis
Pratylenchus scribneri
Pratylenchus thornei
Punctodera chalcoensis
Punctodera punctata (*Heterodera punctata*)
Rotylenchulus macrodoratus
Rotylenchulus parvus
Subanguina radiculicola
Trichodorus viruliferus
Xiphinema diversicaudatum
Xiphinema italiae
Xiphinema rivesi
Xiphinema vuittenezi
Zygotylenchus guevarai

BACTERIA

Apple chat fruit phytoplasma
Brenneria salicis (*Erwinia salicis*)
Burkholderia glumae
Candidatus Liberibacter africanus
Candidatus Liberibacter solanacearum
Candidatus Phytoplasma palmae (Palm lethal yellowing phytoplasma)
Candidatus Phytoplasma mali (Apple proliferation phytoplasma)
Candidatus Phytoplasma pruni (Peach X-disease phytoplasma)
Candidatus Phytoplasma pyri (Pear decline phytoplasma)
Clavibacter michiganensis subsp.*insidiosus*
Clavibacter michiganensis subsp.*sepedonicus*

Clavibacter michiganensis subsp.*nebraskensis*

Dickeya sp.

Erwinia amylovora

Erwinia rhapontici (*Pectobacterium rhapontici*)

Grapevine flavescence dorée phytoplasma

Grapevine yellows phytoplasma

Pantoea cypripedii (*Pectobacterium cypripedii*)

Pantoea stewartii subsp.*stewartii*(*Erwinia stewartii*;*Pantoea stewartii*)

Peach rosette phytoplasma

Peach yellows phytoplasma

Pseudomonas syringae pv.*aptata*

Pseudomonas syringae pv.*atropaciens*

Pseudomonas syringae pv.*atropurpurea*

Pseudomonas syringae pv.*primulae*

Pseudomonas syringae pv.*tagetis*

Rhodococcus fascians

Spiroplasma citri

Xanthomonas axonopodis pv.*khayae*

Xanthomonas campestris pv.*aberrans*

Xanthomonas cassavae (*Xanthomonas campestris*pv.*cassavae*)

Xanthomonas fuscans subsp.*aurantifoliigrupo B* (*Xanthomonas axonopodis*pv.*aurantifoliiraça B*)

Xanthomonas oryzae pv.*oryzae*

Xanthomonas oryzae pv.*oryzicola*

Xanthomonas populi

Xanthomonas translucens pv.*graminis*

Xanthomonas vasicola pv.*musacearum*

Xylella fastidiosa subsp.*fastidiosa*

Xylophilus ampelinus

VÍRUS E VIRÓIDES

African cassava mosaic virus (ACMV)

African oil palm ringspot virus (AOPRV)

Andean potato latent virus (APLV)

Arabis mosaic virus (ArMV)

Arracacha virus A (AVA)

Arracacha virus B (AVB)

Artichoke Italian latent virus (AILV)

Artichoke latent virus (ArLV)(ranunculus latent virus)

Artichoke mottled crinkle virus (AMCV)

Artichoke yellow ringspot virus (AYRSV)

Asparagus virus 2 (AV2)

Banana bract mosaic virus (BBrMV)

Banana bunchy top virus (BBTV)

Barley stripe mosaic virus (BSMV)

Beet curly top virus (BCTV)

Beet pseudoyellows virus (BPYV)

Blueberry leaf mottle virus (BLMoV)

Blueberry mosaic associated virus (BIMaV)

Blueberry red ringspot virus (BRRV)

Blueberry scorch virus (BIScV)

Blueberry shock virus (BlShV)

Blueberry shoestring virus (BSSV)

Broad bean wilt virus (BBWV)

Cacao swollen shoot virus (CSSV)

Capsicum chlorosis virus (CaCV)

Celery latent virus (CeLV)

Chicory yellow mottle virus (ChYMV)

Citrus impietratura agent

Citrus leaf rugose virus (CiLRV)

Citrus variegation virus (CVV)

Clover yellow vein virus (CIYVV)

Coconut cadang-cadang viroid (CCCVd)

Coleus blumei viroid 5 (CbVd-5)

Cucumber green mottle mosaic virus (CGMMV)

Fiji disease virus (FDV)

Impatiens necrotic spot virus (MNSV)

Lily virus X (LVX)

Pea early-browning virus (PEBV)

Peach rosette mosaic virus (PRMV)

Peanut stunt virus (PSV)

Pepino mosaic virus (PepMV)

Perlargonium zonate spot virus (PZSV)

Phalaenopsis chlorotic spot virus (PhCSV)

Plum pox virus (PPV)

Poplar mosaic virus (PopMV)

Potato mop-top virus (PMTV)

Potato spindle tuber viroid (PSTVd)

Potato virus A (PVA)

Potato virus T (PVT)

Potato yellowing virus (PYV)

Potyvirus sp.

Ranunculus leaf distortion virus (RanLDV)

Ranunculus mild mosaic virus (RanMMV)

Ranunculus mosaic virus (RanMV)

Ranunculus white mottle virus (RWMV)

Raspberry ringspot virus (RpRSV)

Red clover vein mosaic virus (RCVMV)

Spinach latent virus (SpLV)

St. Augustine grass decline virus strain / Panicum mosaic virus (PMV)(*St. Augustine decline virus- SAD*)

Strawberry latent ringspot virus (SLRSV)

Tobacco rattle virus (TRV)

Tobacco ringspot virus (TRSV)

Tomato black ring virus (TBRV)

Tomato bushy stunt virus (TBSV)

Tomato ringspot virus (ToRSV)

Tulip breaking virus (TBV)

PLANTAS INFESTANTES E PARASITAS

Alopecurus myosuroides

Amaranthus albus

Amaranthus blitoides

Amaranthus graecizans

Apera spica-venti

Arceuthobium spp.

Arctotheca calendula

Asphodelus tenuifolius

Bonnaya antipoda (*Lindernia antipoda*)

Bonnaya ciliata (*Lindernia ciliata*)

Brassica tournefortii

Bromus rigidus

Carduus acanthoides

Carduus pycnocephalus

Centaurea diffusa

Chondrilla juncea

Cirsium arvense
Cleome viscosa
Crassocephalum crepidioides
Cuscuta australis
Cuscuta campestris
Cuscuta epithymum
Cuscuta europaea
Cuscuta reflexa
Descurainia pinnata
Descurainia sophia
Elymus repens (*Agropyron repens*)
Euphorbia esula
Euphorbia helioscopia
Fumaria bastardii
Fumaria densiflora
Fumaria muralis
Galeopsis speciosa
Heliotropium europaeum
Hibiscus trionum
Hirschfeldia incana
Hordeum murinum subsp.*leporinum*(*Hordeum leporium*)
Imperata cylindrica
Kochia scoparia
Lepidium draba (*Cardaria draba*)
Leptochloa chinensis
Lindernia procumbens
Lolium rigidum
Ludwigia adscendens

Melochia corchorifolia
Monochoria vaginalis
Myagrurn perfoliatum
Orobanche spp.
Persicaria barbata (*Polygonum barbatum*)
Persicaria nepalensis (*Polygonum nepalense*)
Phalaris paradoxa
Pilosella officinarum (*Hieracium pilosella*)
Rhaponticum repens (*Acroptilon repens*)
Rumex hypogaeus (*Emex australis*)
Salsola kali (*Salsola tragus*)
Senecio vulgaris
Setaria pumila
Sisymbrium loeseli
Sisymbrium orientale
Solanum rostratum
Sonchus arvensis
Sphenoclea zeylanica
Stachytarpheta jamaicensis
Striga spp.
Taeniatherum caput-medusae
Urochloa glumaris (*Brachiaria paspaloides*)
Vulpia ciliata

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