

Wild Species Working Group



Verbesina alternifolia

Cooperative Effort: ISTA – KEW – AOSA – SCST
Presented by: Gil Waibel
July 2, 2024



Croton monanthogynus



Disclosure

I have no actual or potential conflict of interest in relation to this presentation.



 **ISTA ANNUAL MEETING 2024**



01-04 JULY CAMBRIDGE, UNITED KINGDOM



Wild Species Working Group Members

ISTA has 7 members

Sergio Pasquini, Liaison Officer
Ruoqing Wang, Vice Chair
Stefonie Krämer
Laura Bowden
Fabricia Cristina dos Reis
Gillian Musgrave
David Johnston

AOSA/SCST has 4 members

Gil Waibel, Chair
Heidi Larson
Riad Baalbaki
Victor Vankus

KEW has 2 members

Rachael Davies
Ted Chapman



Crataegus rhipidophylla

Building a website

Wild Species Testing Methodology

Image Gallery

Glossary

Recommended Protocols (not rules) by species

Nomenclature

Purity

Germination

Tetrazolium

Created Master Lists

Nomenclature Master List

Common Name Master List

Rules Master List

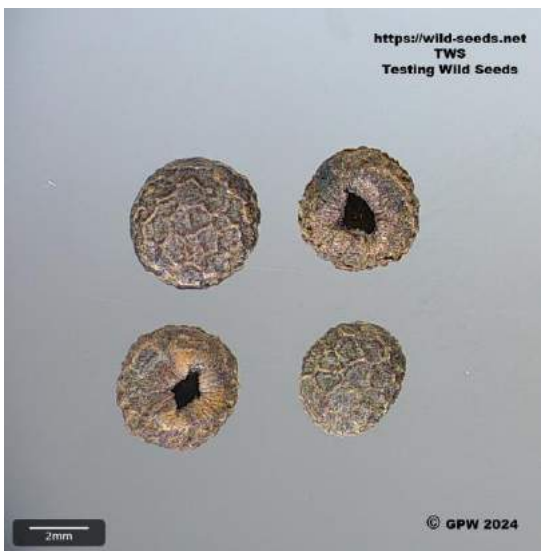
Purity Master List – PSD and PSU – Chaffy classification

Germination Master List – Seedling Eval Descriptions



wild-seeds.net

Nomenclature Master List



Thunbergia alata

Family name	Nomen#	Scientific name	Date added
Acanthaceae	100692	<i>Acanthus mollis</i>	4/6/2024
Acanthaceae	12273	<i>Crossandra infundibuliformis</i>	4/6/2024
Acanthaceae	19625	<i>Hypoestes phyllostachya</i>	4/6/2024
Acanthaceae	465632	<i>Justicia americana</i>	4/6/2024
Acanthaceae	450034	<i>Ruellia humilis</i>	4/6/2024
Acanthaceae	32509	<i>Ruellia strepens</i>	4/6/2024
Acanthaceae	36599	<i>Thunbergia alata</i>	4/6/2024
Acoraceae	418734	<i>Acorus americanus</i>	4/6/2024
Acoraceae	1358	<i>Acorus calamus</i>	4/6/2024
Adoxaceae	32983	<i>Sambucus canadensis</i>	4/6/2024
Adoxaceae	32986	<i>Sambucus ebulus</i>	4/6/2024
Adoxaceae	488297	<i>Sambucus mexicana</i>	4/6/2024
Adoxaceae	32994	<i>Sambucus nigra</i>	4/6/2024
Adoxaceae	33001	<i>Sambucus racemosa</i>	4/6/2024



Acorus calamus

Left- *Daucus carota* subsp. *carota*
 Mid- *Eryngium articulatum*
 Right- *Physocaulis nodosus*



Common Names Master List

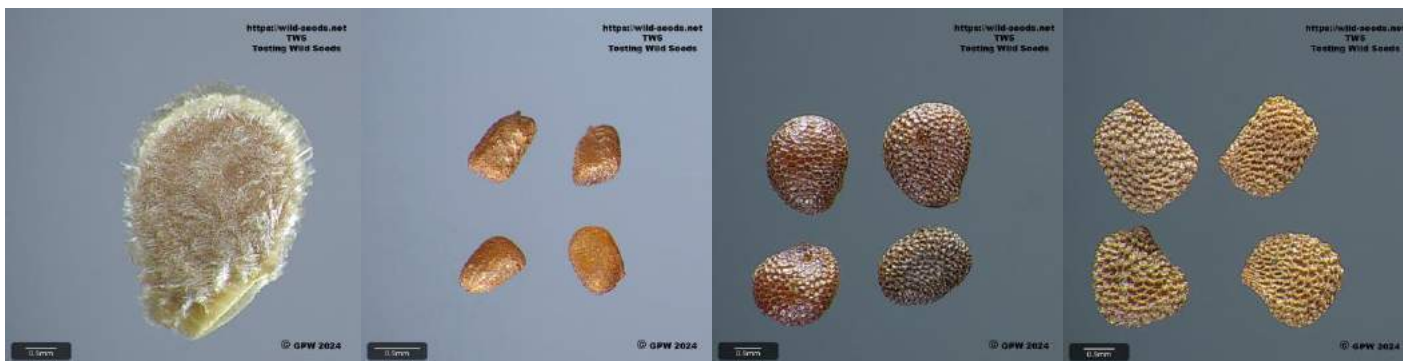
Scientific name	Common name	Common name	Common name
<i>Acanthus mollis</i>	bear's breeches	sea dock	bearsfoot
<i>Crossandra infundibuliformis</i>	crossandra	firecracker flower	firecracker-plant
<i>Hypoestes phyllostachya</i>	polka-dot-plant	flamingo-plant	freckle-face
<i>Justicia americana</i>	water willow	American water-willow	
<i>Ruellia humilis</i>	wild petunia	fringe-leaf ruellia	
<i>Ruellia strepens</i>	smooth wild petunia	limestone wild petunia	
<i>Thunbergia alata</i>	black-eyed-Susan-vine	clockvine	clockvine thunbergia
<i>Sambucus canadensis</i>	American elder	American elderberry	Canadian elder
<i>Sambucus ebulus</i>	danewort	dane weed	danesblood
<i>Sambucus mexicana</i>	blue elderberry	blue elder	blueberry elder
<i>Sambucus nigra</i>	European black elderberry	elder	elderberry
<i>Sambucus racemosa</i>	red elderberry	red-berry elder	druvflader

Carum curvi



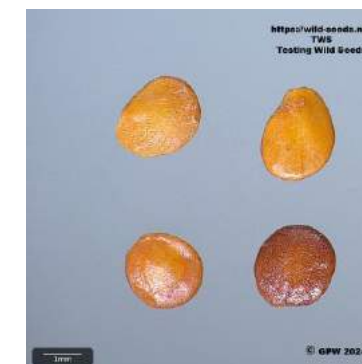
1. *Solanum lycopersicum*
2. *Nicotiana tabacum*
3. *Atropa belladonna*
4. *Hyoscyamus niger*

Rule Master List



Scientific name	Family name	AOSA Purity Rules	AOSA Germ Rules	AOSA Complete	ISTA Purity Rules	ISTA Germ Rules	ISTA Complete
<i>Solanum linnaeanum</i>	Solanaceae	No	Yes spp	Yes germ spp	No	No	No
<i>Solanum lycopersicum</i>	Solanaceae	No	No	No	Yes	Yes	Yes
<i>Solanum lycopersicum</i> var. <i>lycopersicum</i>	Solanaceae	Yes	Yes	Yes	No	No	No
<i>Solanum marginatum</i>	Solanaceae	No	Yes spp	Yes germ spp	Yes	Yes	Yes
<i>Solanum melongena</i>	Solanaceae	Yes	Yes	Yes	Yes	Yes	Yes
<i>Solanum nigrum</i>	Solanaceae	No	Yes spp	Yes germ spp	Yes	Yes	Yes
<i>Solanum pseudocapsicum</i>	Solanaceae	No	Yes spp	Yes germ spp	Yes	Yes	Yes
<i>Solanum</i> spp. (sect. <i>Lycopersicon</i> spp.)	Solanaceae	No	Yes spp	Yes germ spp	Yes spp	Yes	Yes purity spp and yes germ
<i>Solanum tuberosum</i>	Solanaceae	No	Yes spp	Yes germ spp	Yes	Yes	Yes
<i>Solidago bicolor</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago caesia</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago canadensis</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago flexicaulis</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago gigantea</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago juncea</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago missouriensis</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago nemoralis</i>	Asteraceae	No	No	No	No	No	No
<i>Solidago odora</i>	Asteraceae	Yes	No	Yes purity	No	No	No

Solanum carolinense



Paspalum notatum
 Phalaris angusta
 Phleum pratense
 Piptochaetium avenaceum
 Poa secunda



Purity Master List

Family	Genus	Species	ISTA PSD #	ISTA Chaffy	AOSA PSU #	AOSA Chaffy	Note
Poaceae	Paspalum		36	Chaffy	14	Chaffy	
Poaceae	Paspalum	notatum	36	Chaffy	14	Non-chaffy	Other than 'Pensacola'
Poaceae	Paspalum	notatum	36	Chaffy	23	Non-chaffy	'Pensacola'
Poaceae	Phalaris		29	Chaffy	14	Non-chaffy	
Poaceae	Phleum		28	Chaffy	12	Non-chaffy	
Poaceae	Phragmites		42	Chaffy	23	Chaffy	
Poaceae	Piptatherum		31	Chaffy	12	Non-chaffy	
Poaceae	Pleuropogon		28	Chaffy	12	Chaffy	
Poaceae	Poa	spp.	41	Chaffy	14	Chaffy	
Poaceae	Poa	bulbosa	63	Chaffy	47	Chaffy	
Poaceae	Poa	compressa	41	Chaffy	23	Chaffy	
Poaceae	Poa	pratensis	41	Chaffy	23	Chaffy	
Poaceae	Poa	trivialis	41	Chaffy	23	Chaffy	
Poaceae	Psathyrostachys		28	Chaffy	21	Chaffy	

Psathyrostachys juncea



Germination Master List



Panicum gattingeri

Family	Genus	Species	Class
Solanaceae 1	Physalis		Dicotyleon
Solanaceae 1	Solanum	lycopersicum	Dicotyleon
Solanaceae 2	Atropa		Dicotyleon
Solanaceae 2	Browallia		Dicotyleon
Solanaceae 2	Brugmansia		Dicotyleon
Solanaceae 2	Datura		Dicotyleon
Solanaceae 2	Hyoscyamus		Dicotyleon
Solanaceae 2	Lycium		Dicotyleon
Solanaceae 2	Mandragora		Dicotyleon
Solanaceae 2	Nicotiana		Dicotyleon
Solanaceae 2	Nierembergia		Dicotyleon
Solanaceae 2	Petunia		Dicotyleon
Solanaceae 2	Salpiglossis		Dicotyleon
Solanaceae 2	Schizanthus		Dicotyleon
Solanaceae 2	Solanum	abutiloides	Dicotyleon
Solanaceae 2	Solanum	aculeatissimum	Dicotyleon



Holcus lanatus

Zea mays subsp. mexicana



Worksheets

- Seedling evaluation descriptions – 64 complete now –more coming
- TZ working sheets by family - 10 complete -Being worked on now



Plantago ovata

Agrimonia pubescens

Potentilla argentea

Saururus cernuus

Photoshopped and copy right marked images

- Over 8,000 images are photoshopped and ready to publish
- About 2,750 species represented in the 8,000 images
- 150 families represented
- Nomenclature is being checked for these images before they are loaded into the system.



Tecoma sambucifolia

Senna marilandica

Robinia hispida

Nassella viridula

Crupina vulgaris

Website rebuilt to help create uniform protocols efficiently

- Build the Authors Portal on the website
- Create e-form to submit protocols or images for the gallery



Erodium moschatum



Juncus regelii



Nepeta cataria

E-form built to help create protocols uniformly and efficiently



- Beginning with the species on our priority list:
- Most nomenclature will populate automatically
- PSD and PSU numbers will auto-populate
- Chaffy designation will auto-populate
- Images can be dropped into e-form
- Proper seedling evaluation description will automatically be uploaded
- Proper tetrazolium work sheet will automatically be uploaded



Elymus virginicus

- Author will need to know the family and scientific name of the species they are working on...
 - Author will need to provide the purity and other species (noxious exam) working weights
 - Author will need to provide dormancy breaking and germination methodology
- Author can work with the regional representative or the administrator for help if needed.

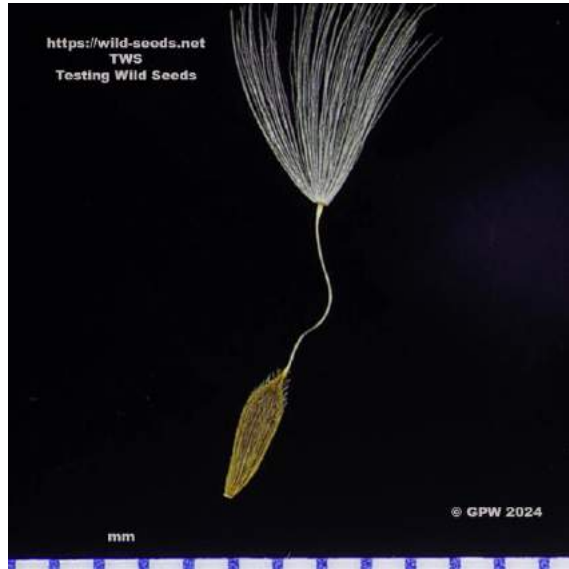
Images



Carduus nutans



Malva parviflora



Lactuca integrata



Thank you



Liatris punctata

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