# **Appendix B1. Plant Species Recorded from Wake Atoll in 2019**

Table B1.1. List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms
		Mono	cots		
Amaryllidaceae	Amaryllis family	Allium cepa L.	Herb	Bulb onion, globe onion	_
Amaryllidaceae	Amaryllis family	Allium fistulosum L.	Herb	Green onion, scallion	_
Amaryllidaceae	Amaryllis family	Allium tuberosum Rottler ex Spreng.	Herb	Garlic chives	_
Amaryllidaceae	Amaryllis family	Crinum amabile Donn ex Ker Gawl.	Herb	Spider lily, Queen Emma crinum	Crinum augustum
Amaryllidaceae	Amaryllis family	Crinum asiaticum L.	Herb	Spider lily, giant crinum lily	_
Amaryllidaceae	Amaryllis family	Hippeastrum sp.	Herb	Amaryllis	_
Amaryllidaceae	Amaryllis family	Hymenocallis littoralis (Jacq.) Salisb.	Herb	Beach spider lily	Hymenocallis pedalis
Araceae	Aroid family	Caladium bicolor (Aiton) Vent.	Herb	Caladium, heart of Jesus	_
Araceae	Aroid family	Colocasia esculenta (L.) Schott	Herb	Taro	_
Araceae	Aroid family	Dieffenbachia seguine (Jacq.) Schott	Herb	Dumb cane	_
Araceae	Aroid family	Epipremnum aureum (Linden & André) G.S. Bunting	Vine	Devil's ivy, taro vine	Rhaphidophora aurea
Araceae	Aroid family	Epipremnum pinnatum (L.) Engl.	Vine	Pothos, taro vine	_
Araceae	Aroid family	Philodendron hederaceum var. oxycardium (Schott) Croat	Vine	Heartleaf philodendron, vilevine	Phyllodendron oxycardium
Araceae	Aroid family	Philodendron undulatum Engl.	Vine	Philodendron	_
Araceae	Aroid family	Syngonium auritum (L.) Schott	Vine	Syngoniurn, arrowhead vine	_
Arecaceae	Palm family	Adonidia merrillii (Becc.) Becc.	Tree	Manila palm; Christmas palm	_
Arecaceae	Palm family	Cocos nucifera L.	Tree	Coconut	_
Arecaceae	Palm family	Phoenix sp.	Tree	Date palm	_
Asparagaceae	Asparagus family	Agave americana L.	Shrub	Century plant	_
Asparagaceae	Asparagus family	Agave angustifolia Haw.	Shrub	Century plant	_
Asparagaceae	Asparagus family	Agave sisalana Perrine	Shrub	Sisal	_
Asparagaceae	Asparagus family	Asparagus densiflorus (Kunth) Jessop	Shrub	Asparagus fern	_
Asparagaceae	Asparagus family	Chlorophytum comosum (Thunb.) Jacques	Herb	Spider plant	_
Asparagaceae	Asparagus family	Cordyline fruticosa (L.) A.Chev.	Shrub	Ti	Cordyline terminalis
Asparagaceae	Asparagus family	Dracaena reflexa var. angustifolia Baker	Shrub	Song of India, pleomele	Dracaena marginata
Asparagaceae	Asparagus family	Sansevieria hyacinthoides (L.) Druce	Herb	Iguana tail, African bowstring hemp	Sansevieria guineensis

 Table B1.1.
 List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms
		Monocots	—Continued		
Asparagaceae	Asparagus family	Sansevieria trifasciata Prain	Herb	Snake plant, mother-in-law's tongue	_
Asphodelaceae	Asphodelus family	Aloe vera (L.) Burm.f.	Herb	Aloe	_
Bromeliaceae	Bromeliad family	Ananas comosus (L.) Merr.	Herb	Pineapple	_
Bromeliaceae	Bromeliad family	Nidularium sp.	Shrub	Nidularium, nest bromeliad	_
Commelinaceae	Spiderwort family	Tradescantia pallida (Rose) D.R. Hunt	Herb	Purple tradescantia, wandering jew	Setcreasea purpurea
Commelinaceae	Spiderwort family	Tradescantia spathacea Sw.	Herb	Oyster plant	Rhoeo spathacea
Cyperaceae	Sedge family	Cyperus alternifolius L.	Sedge	Umbrella sedge	_
Cyperaceae	Sedge family	Cyperus pumilus L.	Sedge	Low flatsedge	_
Cyperaceae	Sedge family	Cyperus rotundus L.	Sedge	Nutgrass, umbrella sedge	_
Cyperaceae	Sedge family	Fimbristylis cymosa R.Br.	Sedge	Tropical fimbry	_
Cyperaceae	Sedge family	Fimbristylis dichotoma (L.) Vahl	Sedge	Forked fimbry	_
Hydrocharitaceae	Frog's-bit family	Egeria densa Planch.	Herb	Brazilian waterweed	_
Musaceae	Banana family	Musa acuminata Colla	Herb	Cavendish banana	_
Orchidaceae	Orchid family	Orchid sp.	Herb	Orchid species	_
Pandanaceae	Screw pine family	Pandanus tectorius Parkinson ex Du Roi	Tree	Hala, screwpine	_
Poaceae	Grass family	Bothriochloa pertusa (L.) A.Camus	Grass	Pitted beardgrass	_
Poaceae	Grass family	Cenchrus brownii Roem. & Schult.	Grass	Slim-bristle sandbur	_
Poaceae	Grass family	Cenchrus echinatus L.	Grass	Sandbur	_
Poaceae	Grass family	Chloris barbata Sw.	Grass	Swollen fingergrass	Chloris inflata
Poaceae	Grass family	Cymbopogon citratus (DC.) Stapf	Grass	Lemon grass	_
Poaceae	Grass family	Cynodon dactylon (L.) Pers.	Grass	Bermuda grass	_
Poaceae	Grass family	Dactyloctenium aegyptium (L.) Willd.	Grass	Beach wiregrass, crowfoot grass	_
Poaceae	Grass family	Digitaria ciliaris (Retz.) Koeler	Grass	Henry's crabgrass, southern crabgrass	_
Poaceae	Grass family	Digitaria gaudichaudii (Kunth) Henrard	Grass	Crabgrass	_
Poaceae	Grass family	Digitaria insularis (L.) Mez ex Ekman	Grass	Sourgrass	_
Poaceae	Grass family	Eleusine indica (L.) Gaertn.	Grass	Indian goosegrass, wiregrass	_
Poaceae	Grass family	Eragrostis amabilis (L.) Wight & Arn.	Grass	Japanese lovegrass (syn: <i>E. tenella</i> )	Eragrostis tenella
Poaceae	Grass family	Eragrostis minor Host	Grass	Lesser love grass, small stink grass	Eragrostis poaeoides

 Table B1.1.
 List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms
		Monocots—	Continued		
Poaceae	Grass family	Eragrostis scabriflora Swallen	Grass	No common name found	_
Poaceae	Grass family	Eustachys petraea (Sw.) Desv.	Grass	Pinewoods fingergrass	_
Poaceae	Grass family	Lepturus repens (G.Forst.) R.Br.	Grass	Pacific Island thintail	Lepturus gasparriciensis
Poaceae	Grass family	Paspalum scrobiculatum L.	Grass	Ricegrass, Kodo millet (Syn: <i>P. orbiculare</i> )	Paspalum auriculatum, P. cartilagineum
Poaceae	Grass family	Paspalum setaceum Michx.	Grass	Thin paspalum, fringeleaf paspalum	_
Poaceae	Grass family	Paspalum vaginatum Sw.	Grass	Seashore paspalum, biscuit grass	_
Poaceae	Grass family	Setaria verticillata (L.) P.Beauv.	Grass	Bristly foxtail	_
Poaceae	Grass family	Sorghum bicolor (L.) Moench	Grass	Sweet sorghum	Sorghum dochna var. technicum
Poaceae	Grass family	Zea mays L.	Grass	Corn	_
Poaceae	Grass family	Zoysia matrella (L.) Merr.	Grass	Manila grass	_
Pontederiaceae	Pickerel weed family	Eichhornia crassipes (Mart.) Solms	Aquatic herb	Water hyacinth	_
Strelitziaceae	Bird of paradise family	Strelitzia reginae Banks	Large herb	Bird-of-paradise	_
Zingiberaceae	Ginger family	Alpinia galanga (L.) Willd.	Large herb	Galanga, Thai ginger, blue ginger	_
Zingiberaceae	Ginger family	Alpinia purpurata (Vieill.) K.Schum.	Large herb	Red ginger	_
Zingiberaceae	Ginger family	Hedychium coronarium J.Koenig	Large herb	White ginger	_
		Gymnosp	oerms		
Araucariaceae	Araucaria family	Araucaria heterophylla (Salisb.) Franco	Tree	Norfolk Island pine	_
		Fern	S		
Polypodiaceae	Polypody family	Phymatosorus scolopendria (Burm. fil.) Pic. Serm.	Fern	Laua'e fern, wart fern	_
Psilotaceae	Whisk fern family	Psilotum nudum (L.) P. Beauv.	Fern	Moa; wisk fern	_
		Dico	ts		
Acanthaceae	Acanthus family	Pseuderanthemum carruthersii (Seem.) Guill.	Shrub	Carruthers' falseface; yellow- veined Eranthemum	Pseuderanthemum carruthersii var. carruthersii
Acanthaceae	Acanthus family	Pseuderanthemum carruthersii var. atropurpureum (Bull) Fosberg	Shrub	Purple false Eranthemum	Pseuderanthemum carruthersii var. atropurpura
Aizoaceae	Fig-marigold family	Sesuvium portulacastrum (L.) L.	Herb	Shoreline seapurslane; `akulikuli	_
Amaranthaceae	Amaranth family	Amaranthus blitum L.	Herb	Purple amaranth, sender amaranth	Amaranthus viridis

 Table B1.1.
 List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms
		Dicots—	Continued		
Amaranthaceae	Amaranth family	Amaranthus dubius Mart.	Herb	Spleen amaranth, red spinach	_
Amaranthaceae	Amaranth family	Amaranthus graecizans L.	Herb	Mediterranean amaranth, short- tepalled pigweed	_
Amaranthaceae	Amaranth family	Gomphrena globosa L.	Herb	Bachelor's button; globe amaranth	_
Anacardiaceae	Mango family	Mangifera indica L.	Tree	Mango	_
Anacardiaceae	Mango family	Spondias pinnata (L. fil.) Kurz	Tree	Wild mango, hog plum	_
Annonaceae	Custard apple family	Annona muricata L.	Tree	Soursop	_
Annonaceae	Custard apple family	Annona squamosa L.	Tree	Sugar apple, custard apple, sweetsop	_
Apiaceae	Parsley family	Anethum graveolens L.	Herb	Dill	_
Apiaceae	Parsley family	Coriandrum sativum L.	Herb	Cilantro, coriander, Chinese parsley	_
Apiaceae	Parsley family	Eryngium foetidum L.	Herb	False coriander, serrated coriander	_
Apiaceae	Parsley family	Petroselinum crispum (Mill.) Fuss	Herb	Parsley	Apium petroselinum
Apocynaceae	Dogbane family	Adenium obesum (Forsk.) Roem. & Schult.	Shrub	Desert rose	_
Apocynaceae	Dogbane family	Calotropis gigantea (L.) W. T. Aiton	Shrub	Crown flower	_
Apocynaceae	Dogbane family	Catharanthus roseus (L.) G. Don	Herb	Periwinkle, Madagascar periwinkle	_
Apocynaceae	Dogbane family	Nerium oleander L.	Shrub	Oleander	_
Apocynaceae	Dogbane family	Plumeria obtusa L.	Tree	Plumeria, frangipani	_
Apocynaceae	Dogbane family	Plumeria rubra L.	Tree	Common frangipani, red frangipani	_
Araliaceae	Ginseng family	Polyscias fruticosa (L.) Harms	Shrub	Ming aralia	_
Araliaceae	Ginseng family	Polyscias guilfoylei (W.Bull) L.H.Bailey	Shrub	Panax, geranium aralia	_
Araliaceae	Ginseng family	Polyscias scutellaria (Burm.f.) Fosberg	Shrub	Shield aralia, plum aralia	_
Araliaceae	Ginseng family	Schefflera actinophylla (Endl.) Harms	Tree	Octopus tree, umbrella tree	Brassaia actinophylla
Asteraceae	Sunflower family	Bidens alba (L.) DC	Herb	Beggarticks, Spanish needles	_
Asteraceae	Sunflower family	Erigeron bonariensis L.	Herb	Hairy horseweed, hairy fleabane	Conyza bonariensis
Asteraceae	Sunflower family	Erigeron canadensis L.	Herb	Canada fleabane, horseweed	Conyza canadensis

**Table B1.1.** List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued [Taxonomy follows Roskov and others (2019). **Abbreviation**: —, not applicable]

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms	
Dicots—Continued						
Asteraceae	Sunflower family	Helianthus annuus L.	Herb	Common sunflower	_	
Asteraceae	Sunflower family	Lactuca sativa L.	Herb	Lettuce	_	
Asteraceae	Sunflower family	Pluchea carolinensis (Jacq.) G. Don	Shrub	Sourbush, fleabane	_	
Asteraceae	Sunflower family	Pluchea odorata (L.) Cass.	Shrub	Camphor-weed, saltmarsh fleabane	_	
Asteraceae	Sunflower family	Sonchus oleraceus L.	Herb	Common sowthistle	_	
Asteraceae	Sunflower family	Tagetes erecta L.	Herb	Marigold	Tagetes patula	
Asteraceae	Sunflower family	Tridax procumbens L.	Herb	Coatbuttons, tridax daisy	_	
Asteraceae	Sunflower family	Zinnia elegans Jacq.	Herb	Garden zinnia	Zinnia violacea	
Bignoniaceae	Bignonia family	<i>Tabebuia aurea</i> (Manso) Benth. & Hook. fil. ex S. Moore	Tree	Silver trumpet-tree	Tabebuia argentea	
Brassicaceae	Mustard family	Brassica nigra (L.) W.D.J. Koch	Herb	Black mustard	_	
Brassicaceae	Mustard family	Brassica oleracea L.	Herb	Cabbage, kale, kohlrabi, cauliflower, broccoli, etc.	_	
Brassicaceae	Mustard family	Lepidium bidentatum I	Herb	Pepperwort	_	
Brassicaceae	Mustard family	Lobularia maritima (L.) Desv.	Herb	Sweet alyssum or sweet alison	_	
Brassicaceae	Mustard family	Raphanus sativus L.	Herb	Raddish	_	
Cactaceae	Cactus family	Nopalea cochenillifera (L.) Salm-Dyck	Shrub	Cochinilla cactus	Opuntia cochenillifera	
Cactaceae	Cactus family	Opuntia littoralis (Engelm.) Cockerell	Shrub	Coastal prickly pear cactus	_	
Caricaceae	Papaya family	Carica papaya L.	Tree	Papaya	_	
Cleomaceae	Cleome family	Gynandropsis gynandra (L.) Briq.	Tree	Ironwood; Australian pine tree	Cleome gynandra	
Commelinaceae	Spiderwort family	Casuarina equisetifolia L.	Herb	African spider-flower	_	
Commelinaceae	Spiderwort family	Terminalia catappa L.	Tree	Indian almond, false kamani	_	
Convolvulaceae	Morning glory family	Cuscuta pentagona Engelm.	Vine	Fiveangled dodder	_	
Convolvulaceae	Morning glory family	Ipomoea aquatica Forsk.	Vine	Swamp morning-glory, Chinese watercress	_	
Convolvulaceae	Morning glory family	Ipomoea batatas (L.) Lam.	Vine	Sweet potato	_	
Convolvulaceae	Morning glory family	Ipomoea pes-caprae subsp. brasiliensis (L.) Ooststr.	Vine	Beach morning-glory, pohuehue; puhuehue	_	

 Table B1.1.
 List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms
		Dicots—Co	ntinued		
Convolvulaceae	Morning glory family	Ipomoea violacea L.	Vine	Beach moon-flower, heavenlyblue morning-glory	Ipomoea tuba
Crassulaceae	Orpine family	Crassula ovata (Mill.) Druce	Herb	Jade plant	_
Crassulaceae	Orpine family	Kalanchoe daigremontiana RHamet & Perrier	Herb	Devil's backbone, alligator plant	_
Crassulaceae	Orpine family	Kalanchoe delagoensis Eckl. & Zeyh.	Herb	Chandelier plant	_
Crassulaceae	Orpine family	Kalanchoe pinnata (Lam.) Pers.	Herb	Air plant, cathedral bells	_
Crassulaceae	Orpine family	Sedum sp.	Herb	Stonecrop	_
Crassulaceae	Orpine family	Sempervivum tectorum L.	Herb	Common houseleek	_
Cucurbitaceae	Gourd family	Coccinia grandis (L.) Voigt	Vine	Ivy gourd	_
Cucurbitaceae	Gourd family	Cucumis melo L.	Vine	Cantaloupe, muskmelon	_
Cucurbitaceae	Gourd family	Cucurbita pepo L.	Vine	Pumpkin, squash	_
Cucurbitaceae	Gourd family	Momordica charantia L.	Vine	Bitter melon	_
Ehretiaceae	Ehretiaceae family	Cordia subcordata Lamarck	Tree	Kou	_
Euphorbiaceae	Spurge family	Codiaeum variegatum (L.) Rumph. ex A.Juss.	Shrub	Garden croton or variegated croton	_
Euphorbiaceae	Spurge family	Euphorbia heterophylla var. cyathophora (Murray) Griseb.	Herb	Dwarf poinsettia, wild poinsettia	Euphorbia cyathophora
Euphorbiaceae	Spurge family	Euphorbia hirta L.	Herb	Hairy spurge, garden spurge	Chamaesyce hirta
Euphorbiaceae	Spurge family	Euphorbia hypericifolia L.	Shrub	Graceful spurge	Euphorbia hypericifolia, Euphorbia glomerifera
Euphorbiaceae	Spurge family	Euphorbia lactea Haw.	Shrub	Mottled spurge, frilled fan, candlestick tree	_
Euphorbiaceae	Spurge family	Euphorbia milii Des Moul.	Shrub	Crown of thorns, Christ plant, or Christ thorn	_
Euphorbiaceae	Spurge family	Euphorbia prostrata Aiton	Herb	Prostrate purge or prostrate sandmat	Chamaesyce prostrata
Euphorbiaceae	Spurge family	Euphorbia pulcherrima Willd. ex Klotzsch	Shrub	Poinsettia; Christmas star	_
Euphorbiaceae	Spurge family	Euphorbia thymifolia L.	Herb	Chickenweed	Chamaesyce thymifolia
Euphorbiaceae	Spurge family	Euphorbia tirucalli L.	Shrub	Firestick, pencil tree, pencil cactus	_

**Table B1.1.** List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued [Taxonomy follows Roskov and others (2019). **Abbreviation**: —, not applicable]

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms	
Dicots—Continued						
Euphorbiaceae	Spurge family	Euphorbia tithymaloides L.	Shrub	Redbird cactus, buck-thorn, Christmas candle	Pedilanthus tithymaloides	
Euphorbiaceae	Spurge family	Jatropha integerrima Jacq.	Shrub	Rose-flowered jatropha	_	
Euphorbiaceae	Spurge family	Ricinus communis L.	Shrub	Castor bean or castor oil plant	_	
Fabaceae	Pea family	Bauhinia sp.	Tree	Orchid tree	_	
Fabaceae	Pea family	Caesalpinia bonduc (L.)Roxb.	Vine	Grey nicker, nicker bean, kakalaoa	_	
Fabaceae	Pea family	Dalea emarginata (Torr. & A.Gray)Shinners	Herb	Wedgeleaf prairie clover	_	
Fabaceae	Pea family	Delonix regia (Hook.) Raf.	Tree	Poinciana, flame tree	_	
Fabaceae	Pea family	Desmanthus pernambucanus (L.)Thell.	Shrub	Wild tantan, prostrate bundleflower, dwarf koa	_	
Fabaceae	Pea family	Desmanthus virgatus (L.)Willd.	Shrub	Wild tantan, prostrate bundleflower, dwarf koa	_	
Fabaceae	Pea family	Gliricidia sepium (Jacq.)Walp.	Tree	Gliricidia	_	
Fabaceae	Pea family	Leucaena leucocephala (Lam.)de Wit	Tree	Koa haole, tangantangan, lead tree	_	
Fabaceae	Pea family	Phaseolus coccineus L.	Vine	Snap bean, scarlet runner bean	_	
Fabaceae	Pea family	Phaseolus vulgaris L.	Vine	Common bean, snap bean	_	
Fabaceae	Pea family	Pithecellobium dulce (Roxb.)Benth.	Tree	Opiuma, Manila tamarind	_	
Fabaceae	Pea family	Psophocarpus tetragonolobus (L.)DC.	Vine	Wing bean	_	
Fabaceae	Pea family	Samanea saman (Jacq.) Merr.	Tree	Monkeypod	Albizia saman	
Fabaceae	Pea family	Sesbania grandiflora (L.)Pers.	Tree	Hummingbird tree, scarlet wisteria	_	
Fabaceae	Pea family	Tamarindus indica L.	Tree	Tamarind	_	
Fabaceae	Pea family	Vigna unguiculata subsp. sesquipedalis (L.) Verdc.	Vine	Asparagus bean, yard-long bean	_	
Goodeniaceae	Goodenia family	Scaevola sericea Forst. fil.	Shrub	Beach naupaka, naupaka kahakai	Scaevola sericea var. taccada, S. taccada	
Heliotropiaceae	Heliotrop family	Euploca procumbens var. depressum (Chamisso)	Herb	Fourspike heliotrope (Heliotropium procumbens)	Heliotropium procumbens var. depressum	
Heliotropiaceae	Heliotrop family	Heliotropium anomalum Hook. & Arn.	Herb	Hinahina, Polynesian heliotrope	_	

 Table B1.1.
 List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms	
Dicots—Continued						
Heliotropiaceae	Heliotrop family	Heliotropium foertherianum Diane & Hilger	Tree	Tree heliotrope, octopus bush	Tournefortia argentea	
Lamiaceae	Mint family	Coleus scutellarioides (L.) Benth.	Herb	Coleus	Solenostemon scutellarioides, Plectranthus scutellarioides	
Lamiaceae	Mint family	Mentha spicata L.	Herb	Mint, spearmint	_	
Lamiaceae	Mint family	Ocimum basilicum L.	Herb	Sweet basil	_	
Lamiaceae	Mint family	Ocimum tenuiflorum L.	Herb	Holy basil, tulasi	_	
Lamiaceae	Mint family	Vitex trifolia L.	Shrub	Blue vitex	_	
Lecythidaceae	Brazil-nut family	Barringtonia asiatica (L.) Kurz	Tree	Fish poison tree	_	
Lythraceae	Loosestrife family	Pemphis acidula J.R. Forster & G. Forster	Shrub	Pemphis	_	
Malvaceae	Mallow family	Abutilon indicum subsp. albescens (Miq.) Borssum Waalkes	Shrub	Indian mallow	Abutilon asiaticum var. albescens	
Malvaceae	Mallow family	Gossypium stephensii J.P.Gallagher, C.E.Grover & Wendel	Shrub	Wake Island cotton	_	
Malvaceae	Mallow family	Hibiscus hybrid	Shrub	Hibiscus	_	
Malvaceae	Mallow family	Sida ciliaris L.	Herb	Fringed Sida	_	
Malvaceae	Mallow family	Sida fallax Walp.	Shrub	Ilima	_	
Malvaceae	Mallow family	Talipariti tiliaceum (L.) Fryxell	Tree	Hau, sea hibiscus	Hibiscus tiliaceus	
Malvaceae	Mallow family	Thespesia populnea (L.) Soland. ex Correa	Tree	Milo	_	
Malvaceae	Mallow family	Waltheria indica L.	Herb	Uhaloa	_	
Moraceae	Mulberry family	Ficus benghalensis L.	Tree	Banyan	_	
Moraceae	Mulberry family	Ficus carica L.	Tree	Edible fig	_	
Moraceae	Mulberry family	Ficus microcarpa L. fil.	Tree	Chinese banyan, Indian laurel fig	_	
Moraceae	Mulberry family	Ficus rubiginosa Desf.	Tree	Port Jackson fig, rusty fig	_	
Moraceae	Mulberry family	Moringa oleifera Lam.	Tree	Horseradish tree, drumstick tree	_	
Myrtaceae	Myrtle family	Corymbia citriodora (Hook.) K.D. Hill & L.A.S. Johnson	Tree	Lemon-scented gum	Eucalyptus citriodora	
Myrtaceae	Myrtle family	Psidium guajava L.	Tree	Common guava, lemon guava	_	
Nyctaginaceae	Four-o'clock family	Boerhavia albiflora Fosberg	Herb	Spiderling	_	
Nyctaginaceae	Four-o'clock family	Boerhavia coccinea Mill.	Herb	Scarlet spiderling	_	
Nyctaginaceae	Four-o'clock family	Boerhavia repens L.	Herb	Red spiderling, hogweed	_	
Nyctaginaceae	Four-o'clock family	Bougainvillea spectabilis Willd.	Shrub	Bougainvillea	_	
Nyctaginaceae	Four-o'clock family	Pisonia grandis R. Br.	Tree	Papala kepau	_	

 Table B1.1.
 List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms		
Dicots—Continued							
Nymphaeaceae	Water lily family	Nymphaea sp.	Aquatic herb	Lotus, waterlily	_		
Oleaceae	Olive family	Jasminum sambac (L.) Aiton	Shrub	Arabian jasmine, Sambac jasmine	_		
Oleaceae	Olive family	Noronhia emarginata (Lam.) Poir.	Shrub	Madagascar olive	_		
Passifloraceae	Passion flower family	Passiflora foetida var. hispida (DC. ex Triana & Planchon) Killip ex Gleason	Vine	Passion fruit, scarletfruit passionflower	_		
Phyllanthaceae	Phyllanthus family	Phyllanthus acidus (L.) Skeels	Shrub	Otaheite gooseberry	_		
Phyllanthaceae	Phyllanthus family	Phyllanthus amarus Schumach. & Thonn.	Shrub	Hurricane weed, carry me seed	_		
Polygonaceae	Buckwheat family	Coccoloba uvifera (L.) L.	Tree	Sea grape	_		
Portulacaceae	Purslane family	Portulaca lutea SoI. ex Seem.	Herb	Yellow purslane	_		
Portulacaceae	Purslane family	Portulaca oleracea L.	Herb	Purslane, hogweed, pigweed	_		
Portulacaceae	Purslane family	Portulaca pilosa subsp. pilosa L.	Herb	Seashore purslane, rose-flowered purslane	Portulaca samoensis, P. australis		
Rhamnaceae	Buckthorn family	Ziziphus mauritiana Lam.	Tree	Indian jujube, Chinese date	_		
Rosaceae	Rose family	Rosa sp.	Shrub	Rose	_		
Rubiaceae	Coffee family	Gardenia taitensis DC.	Shrub	Tiare	_		
Rubiaceae	Coffee family	Ixora sp.	Shrub	Ixora	_		
Rubiaceae	Coffee family	Morinda citrifolia L., nom. cons.	Tree	Noni, Indian-mulberry	_		
Rubiaceae	Coffee family	Oldenlandia corymbosa L.	Herb	Flat-top mille graines, diamond flower	Hedyotis corymbosa (L.) Lam.		
Rutaceae	Rue or citrus family	Citrus hystrix DC.	Tree	Kaffir lime, Thai lime	_		
Rutaceae	Rue or citrus family	Citrus sp.	Tree	Citrus	_		
Sapotaceae	Sapodilla family	Chrysophyllum cainito L.	Tree	Star apple, cainito	_		
Sapotaceae	Sapodilla family	Manilkara zapota (L.) P.Royen	Tree	Sapodilla	_		
Solanaceae	Nightshade family	Capsicum annuum L.	Shrub	Chili pepper, bell pepper, etc.	_		
Solanaceae	Nightshade family	Capsicum frutescens L.	Shrub	Chili pepper	_		
Solanaceae	Nightshade family	Nicotiana tabacum L.	Shrub	Tobacco	_		
Solanaceae	Nightshade family	Solanum lycopersicum L.	Shrub	Tomato	Lycopersicon esculentum		
Solanaceae	Nightshade family	Solanum melongena L.	Shrub	Egg plant	_		
Solanaceae	Nightshade family	Solanum torvum Swartz	Shrub	Turkeyberry, pea eggplant	_		

Table B1.1. List of plant species recorded from Wake Atoll, with full taxonomic nomenclature and selected synonyms.—Continued

Family	Family common name	Full taxonomic name	Life form	Common name	Synonyms
		Dicots	—Continued		
Tetrachondraceae	Tetrachondra family	Polypremum procumbens L.	Herb	Juniper leaf	_
Urticaceae	Nettle family	Pilea microphylla (L.) Liebm.	Herb	Artillery plant	_
Urticaceae	Nettle family	Piper sarmentosum Roxb.	Shrub	Lolot, wild betel	Piper lolot
Verbenaceae	Verbena family	Stachytarpheta jamaicensis (L.) Vahl	Shrub	Jamaica vervain, light-blue snakeweed	_
Verbenaceae	Verbena family	Stachytarpheta urticifolia Sims	Shrub	Blue rat's tail, nettleleaf velvetberry	_
Zygophyllaceae	Creosote bush family	Tribulus cistoides L.	Shrub	Nohu	_
Zygophyllaceae	Creosote bush family	Tribulus terrestris L.	Shrub	Puncture vine	_

## **B1. Reference Cited**

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## **Appendix B2. Plant Field Guide to Wake Atoll**

Photograph and descriptive summary of native and introduced plant species that have been recorded on Wake Atoll. Taxa are organized with monocots first and dicots second. Within monocots and dicots, taxa are organized alphabetically by family name and then by genus within family.

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#### Crinum amabile

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Р	lant Group: Monocots	Family: Amaryllidaceae	Life Form: herb	RESEARCH CEN
Species Code: CriAm	na Synonym(s):	Crinum augustum		
Common Name(s): \$	pider lily, Queen Emma	crinum		
Status on Wake: cu	ıltivated	Wake Risk Assessment: low		
Recorded by:	Fosberg and Sachet 196	9 X Herbst 1998 X	2019 Survey New in 2019 Surv	'ey?
Comments:				
This species is unlike	ly to spread beyond wh	nere it is actively planted and	d cultivated.	
Herbst 1998 distribu	tion:	Wilkes: Wak	e: X Peale:	
2019 survey distribut	tion: Wilkes N:	Wilkes S: Wak	e: X Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



 ${\bf Photograph: Forest\ and\ Kim\ Starr, Starr\ Environmental}$ 



### Crinum asiaticum



	Plant Group:	Monocots	Family: Amarylli	daceae	Life Form: herb	SEARCH C
Species Code: Cr	iAsi	Synonym(s):				
Common Name(s	s): spider lily,	giant crinum lil	У			
Status on Wake:	cultivated	Wo	ake Risk Assessmer	t: low		
Recorded by:	Fosberg an	d Sachet 1969	X Herbst 1998	3 X 201	9 Survey New in 2019	Survey?
Comments:						
This species is ur	nlikely to sprea	d beyond where	e it is actively plant	ed and cultiv	ated.	
Herbst 1998 disti	ribution:		Wilkes:	Wake: X	Peale:	
2019 survey disti	ribution: V	/ilkes N:	Wilkes S:	Wake: X	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Herbst 1998 distribution:

2019 survey distribution:

## Hippeastrum sp.



	Plant Group:	Monocots	Family: Amaryllida	ceae Life For	m: herb	ESEARCH CENT
Species Code: Hi	pSp	Synonym(s):				
Common Name(s	s): amaryllis					
Status on Wake:	cultivated	W	ake Risk Assessment:	low		
Recorded by:	Fosberg an	d Sachet 1969	Herbst 1998	X 2019 Survey	New in 2019 Surve	y? Y
Comments:						
This ornamental	species is unlil	kely to spread b	eyond where it is act	ively planted and cul	tivated.	

Wake:

Wake: X

Wilkes:

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Colocasia esculenta



P	lant Group:	Monocots	Family: Aracea	ae	Life Form: herb	ESEARCH
Species Code: ColE	sc	Synonym(s):				
Common Name(s):	taro					
Status on Wake:	cultivated	W	ake Risk Assessm	nent: low		
Recorded by:	Fosberg and	d Sachet 1969	X Herbst 19	998 201	9 Survey New in 20	19 Survey?
Comments:						
Several plants in re cultivated.	sidential gar	dens. This spec	cies is unlikely to	spread beyond	where it is actively pl	anted and
Herbst 1998 distrib	ution:		Wilkes:	Wake: X	Peale:	
2019 survey distrib	ution: W	'ilkes N:	Wilkes S:	Wake:	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Herbst 1998 distribution:

2019 survey distribution:

## Syngonium auritum



	Plant Group:	Monocots	Fan	nily: Araceae		Life Fori	m: vine	ARCH
Species Code: S	ynAur	Synonym(s):						
Common Name	(s): syngoniur	n, arrowhead vin	е					
Status on Wake:	cultivated	Wa	ke Ri	sk Assessment:	low			
Recorded by:	Fosberg an	d Sachet 1969	Χ	Herbst 1998	X	2019 Survey	New in 2019 Surve	;y?
Comments: Although Herbsi	t found it on W	ake and Peale Isl	ets ir	າ 1998, it was o	nly see	en on Wake in	the 2019 survey.	

Wake: X

Wake: X

Wilkes:

Wilkes S:



Photograph: J. Jacobi, U.S. Geological Survey

Wilkes N:



Peale: X

Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey

Wake Atoll Plant Photo Key From 2019 Survey



### Adonidia merrillii



	Plant Group:	Monocots	Family: Arecaceae		Life Fori	m: tree	PESEARC
Species Code: Add	oMer	Synonym(s):					
Common Name(s)	: Manila palr	n; Christmas paln	n				
Status on Wake:	cultivated	Wa	ke Risk Assessment:	low			
Recorded by:	Fosberg an	d Sachet 1969	X Herbst 1998	Χ	2019 Survey	New in 2019 Surve	y? Y
			survey but did not ide	,	, ,		ted

Herbst 1998 distribution:Wilkes:Wake: X?Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake: XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Cocos nucifera



Plant Group: Monocots Family: Arecaceae Life Form: tree

Species Code: CocNuc Synonym(s):

Common Name(s): coconut

Status on Wake: alien-naturalized Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

There are several coconut trees that have been planted on both Wake and Peale Islets. This species, which is not native to Wake Atoll has the potential to expand to many other areas and even dominate the coastline.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



2019 survey distribution:

### Phoenix sp.



Plant Group: Monocots Family: Arecaceae Life Form: tree Species Code: PhoSp Synonym(s): Common Name(s): date palm Status on Wake: cultivated Wake Risk Assessment: medium Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey? Comments: While this introduced palm species is only found in a few places around residences on the northwest side of Wake Islet, it has the potential to spread to many other locations throughout the atoll. Herbst 1998 distribution: Wilkes: Peale: Wake: X

Wake: X

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Agave sisalana



Plant Group: Monocots Family: Asparagaceae Life Form: shrub

Species Code: AgaSis Synonym(s):

Common Name(s): sisal

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

Planted as an ornamental around several residences on Wake Islet and near the old FAA facility on Peale, this highly invasive species has great potential for spread to many other areas.

Herbst 1998 distribution: Wilkes: Wake: X Peale:

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Herbst 1998 distribution:

2019 survey distribution:

## Asparagus densiflorus



	Plant Group:	Monocots	Family: Asparagac	eae <i>Life For</i>	m: shrub	PRESEARCH CENT
Species Code: As	pDen	Synonym(s):				
Common Name(	s): asparagus	fern				
Status on Wake:	cultivated	W	ake Risk Assessment:	medium		
Recorded by:	Fosberg a	nd Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Su	irvey?
Comments:						
This species is ur	likely to spre	ad beyond wher	e it is actively plante	d and cultivated.		

Wilkes:

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Peale:

Wake: X

Wake: X

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



Photograph: Forest and Kim Starr, Starr Environmental



## Cordyline fruticosa



Plant Group: Monocots Family: Asparagaceae Life Form: shrub

Species Code: CorFru Synonym(s): Cordyline terminalis

Common Name(s): ti

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Herbst 1998 distribution:

## Sansevieria trifasciata



	Plant Group:	Monocots	Family: Asparagac	eae Life For	m: herb	RESEARCH CENT
Species Code: S	anTri	Synonym(s):				
Common Name	(s): snake pla	nt, mother-in-la	w's tongue			
Status on Wake	cultivated	W	ake Risk Assessment:	medium		
Recorded by:	Fosberg ar	nd Sachet 1969	Herbst 1998	X 2019 Survey	New in 2019 Surv	vey?
Comments: This species is u	nlikely to sprea	ad beyond wher	e it is actively plante	d and cultivated.		

Wake:

Wake: X

Wilkes:



Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



#### Aloe vera



Plant Group: Monocots Family: Asphodelaceae Life Form: herb

Species Code: AloVer Synonym(s):

Common Name(s): aloe

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



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Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Tradescantia spathacea



Family: Commelinaceae Life Form: herb Plant Group: Monocots

Synonym(s): Rhoeo spathacea Species Code: TraSpa

Common Name(s): oyster plant

Status on Wake: cultivated Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution: W		Wilkes:	Wake:	Χ	Peale:
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:



Photograph: J. Jacobi, U.S. Geological Survey





Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Cyperus alternifolius

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Plant Group:	Monocots	Family: Cyperaceae	Life Form: sedge
pecies Code: CypAlt	Synonym(s):		

Common Name(s): umbrella sedge

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:Peale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



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Photograph: J. Jacobi, U.S. Geological Survey



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Photograph: J. Jacobi, U.S. Geological Survey



## Cyperus rotundus



Plant Group: Monocots Family: Cyperaceae Life Form: sedge

Species Code: CypRot Synonym(s):
Common Name(s): nutgrass, umbrella sedge

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This species is somewhat similar in appearance to other *Cyperus* species found on Wake but can be distinguished by the presence of nut-like corms on the roots.

Herbst 1998 distribution:Wilkes:XWake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



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Photograph: Forest and Kim Starr, Starr Environmental



### Fimbristylis cymosa



Plant Group: Monocots Family: Cyperaceae Life Form: sedge

Species Code: FimCym Synonym(s):

Common Name(s): tropical fimbry

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This is a very common native species that is found throughout the atoll.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



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## Fimbristylis dichotoma



	Plant Group:	Monocots	Family: C	Typerace	ae	Life Fo	rm: sedge		ARCH C
Species Code: Fi	mDic	Synonym(s):							
Common Name(	s): forked fimb	ry							
Status on Wake:	alien-natura	lized Wo	ake Risk As.	sessmen	t: low				
Recorded by:	X Fosberg an	d Sachet 1969	Herl	bst 1998	X	2019 Survey	New in 20	19 Survey?	
Comments:									
This uncommon Cyperus rotundu		difficult to disti	nguish fron	n the nat	ive <i>F. cyl</i>	<i>mosa</i> and ca	n also be cor	nfused with	I
Herbst 1998 dist	ribution:		Wilkes:		Wake:	Pe	eale:		
2019 survey dist	ribution: V	/ilkes N:	Wilkes S:	X	Wake:	X Pe	eale:		



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



Photograph: Forest and Kim Starr, Starr Environmental



## Egeria densa



	Plant Group:	Monocots	Family: I	Hydrochari	taceae	Life For	m: herb		ARCH
Species Code: Eg	eDen	Synonym(s):							
Common Name(	s): Brazilian wa	nterweed							
Status on Wake:	cultivated	Wo	ake Risk As	sessment:	low				
Recorded by:	Fosberg an	d Sachet 1969	Her	bst 1998	X	2019 Survey	New in	2019 Survey	? Y
Comments:									
This aquatic plan beyond where it	,		ed water p	oond near	a resido	ence on Wak	e Islet ar	id cannot spre	ead
Herbst 1998 dist	ribution:		Wilkes:		Wake:	Pe	ale:		
2010 curvou dist	ribution: \M	lilkos Ni	Wilkoc S:		Mako:	V Po	alo:		



Photograph: J. Jacobi, U.S. Geological Survey



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Photograph: J. Jacobi, U.S. Geological Survey

Wake Atoll Plant Photo Key From 2019 Survey



#### Musa acuminata



Plant Group: Monocots Family: Musaceae Life Form: herb

Species Code: MusAcu Synonym(s):

Common Name(s): Cavendish banana

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

Banana plants are found in several of the gardens around residences. This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution: Wilkes: Wake: X Peale:

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



#### Pandanus tectorius



Plant Group: Monocots Family: Pandanaceae Life Form: tree

Species Code: PanTec Synonym(s):

Common Name(s): hala, screwpine

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

Although *Pandanus* is a genus found naturally on many Pacific islands, it is not native to Wake Atoll. It does have the potential to spread naturally away from areas where it has been planted.

Herbst 1998 distribution: Wilkes: Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:



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Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Herbst 1998 distribution:

2019 survey distribution:

## Bothriochloa pertusa



	Plant Group:	Monocots	Family: Poaceae	Life For	m: grass	RESEARCH CENT			
Species Code: B	otPer	Synonym(s):							
Common Name(s): pitted beardgrass									
Status on Wake: alien-naturalized Wake Risk Assessment: low									
Recorded by:	Fosberg a	nd Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Sui	rvey?			
Comments:									
This is a common small grass species that was found on Wake and Peale Islets. It is likely that is also occurs on the south portion of Wilkes Islet but was missed there in the 2019 survey.									

Wake: X

Wake: X

Wilkes:

Wilkes S:



Wilkes N:

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Peale:

Peale: X

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



#### Cenchrus echinatus



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: CenEch Synonym(s):

Common Name(s): sandbur

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This very invasive small grass with spiky burr seeds is established in many locations on Peale, Wake, and the south part of Wilkes Islets. It has the potential to spread widely since its seeds are easily transported on clothing and other personal gear.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale: X



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Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



#### Chloris barbata



Plant Group: Monocots Family: Poaceae Life Form: grass
Species Code: ChlBar Synonym(s): Chloris inflata

Common Name(s): swollen fingergrass

Status on Wake: alien-invasive Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This is a moderate-sized grass that colonizes open, disturbed areas.

Herbst 1998 distribution:Wilkes:Wake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



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Photograph: Forest and Kim Starr, Starr Environmental



## Cynodon dactylon



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: CynDac Synonym(s):

Common Name(s): Bermuda grass

Status on Wake: alien-invasive Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This species of grass does not grow very well in relatively dry sites but can dominate areas that have some added moisture, such as near buildings or other managed areas.

Herbst 1998 distribution: Wilkes: Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



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Photograph: J. Jacobi, U.S. Geological Survey



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### Dactyloctenium aegyptium



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: DacAeg Synonym(s):

Common Name(s): beach wiregrass, crowfoot grass

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This introduced grass was found to be common in many open areas on all of the islets on the atoll.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: Wake: X Peale: X



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#### Eleusine indica



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: EleInd Synonym(s):

Common Name(s): Indian goosegrass, wiregrass

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This introduced grass was documented by Herbst in 1998 on all of the islets on Wake Atoll. Although it was only recorded on Wilkes N and Wake during the 2019 survey, it was likely missed on Peale at that time.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



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## **Eragrostis amabilis**

The state of the s

Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: EraAma Synonym(s): Eragrostis tenella

Common Name(s): Japanese lovegrass

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This introduced grass was documented by Herbst in 1998 on all of the islets on Wake Atoll. Although it was only recorded on Wilkes S and Wake during the 2019 survey, it was likely missed on Peale at that time.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Eragrostis scabriflora



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: EraSca Synonym(s):

Common Name(s): no common name

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This introduced grass was found to be common on all islets on Wake Atoll.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Eustachys petraea



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: EusPet Synonym(s):
Common Name(s): pinewoods fingergrass

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This introduced grass was found to be common on all islets on Wake Atoll.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Lepturus repens



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: LepRep Synonym(s): Lepturus gasparriciensis

Common Name(s): Pacific Island thintail

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This native grass was found to be common on all islets on Wake Atoll, particularly along the shorelines as well as growing as a dense mat under the open *Heliotropium foertherianum* woodland on Peale Islet.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



## Paspalum scrobiculatum



Plant Group:	Monocots	Family: Poaceae	Life For	m: grass	ESEARC
Species Code: PasScr	Synonym(s):	Paspalum auriculatum	, P. cartilagineum		
Common Name(s): ricegrass,	Kodo millet				
Status on Wake: alien-invasiv	ve W	'ake Risk Assessment:	medium		
Recorded by: X Fosberg an	d Sachet 1969	Herbst 1998	X 2019 Survey	New in 2019 Survey	?
Comments: This introduced grass was not i Wake and Peale Islets during the	•		1998 but was found	to be uncommon on l	both

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



Photograph: Forest and Kim Starr, Starr Environmental



## Paspalum setaceum



Plant Group: Monocots Family: Poaceae Life Form: grass

Species Code: PasSet Synonym(s):

Common Name(s): thin paspalum, fringeleaf paspalum

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This introduced grass was found to be uncommon on both Wake and Peale Islets by Herbst in 1994 and 1998 as well as during the 2019 survey.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Zoysia matrella



	Plant Group:	Monocots	Family: Poacea	е	Life Form:	grass	ESEARCH CE
Species Code: Zo	yMat	Synonym(s):					
Common Name(s	): Manila grass	S					
Status on Wake:	alien-natura	lized Wo	ake Risk Assessme	ent: low			
Recorded by:	Fosberg an	d Sachet 1969	X Herbst 199	98 X 2	2019 Survey N	ew in 2019 Sur	vey?
Comments: This introduced g northwest side of	•		ome of the admin arently planted.	iistration ai	nd residence bu	ildings on the	
Herbst 1998 distr	ibution:		Wilkes:	Wake:	X Peale:	: X	
2019 survey distr	ibution: W	/ilkes N:	Wilkes S:	Wake:	X Peale:	:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Strelitzia reginae



Plant Group: Monocots Family: Strelitziaceae Life Form: large herb

Species Code: StrReg Synonym(s):

Common Name(s): bird-of-paradise

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



2019 survey distribution:

## Alpinia galanga



Plant Group: Mo	onocots Family: Zingiberac	eae <i>Life Form:</i> large	herb Stanch CE				
Species Code: AlpGal Syn	onym(s):						
Common Name(s): galanga, Thai	ginger, blue ginger						
Status on Wake: cultivated	Wake Risk Assessment:	low					
Recorded by: Fosberg and Sa	chet 1969 X Herbst 1998	X 2019 Survey New in	1 2019 Survey?				
Comments: This species is unlikely to spread beyond where it is actively planted and cultivated.							
Herbst 1998 distribution:	Wilkes:	Wake: X Peale:					

Wake: X

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Photograph: Forest and Kim Starr, Starr Environmental



Herbst 1998 distribution:

## Araucaria heterophylla



	Plant Group:	Gymnosper	Family: Araucariac	eae	Life Forn	n: tree	ESEA	RCH CE
Species Code: Ara	aHet	Synonym(s):						
Common Name(s	s): Norfolk Isla	nd pine						
Status on Wake:	cultivated	Wa	ke Risk Assessment:	low				
Recorded by:	Fosberg ar	nd Sachet 1969	X Herbst 1998	X 2019	Survey	New in 2019 Su	rvey?	
Comments: Several trees we	re found to be	e growing on Wal	ke Islet near the resid	dence and a	administra	ation buildings.		

Wilkes:

Wake:

Wake: X



Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Phymatosorus scolopendria



	Plant Group:	Ferns	Family: Polypodiac	eae <i>Life Fo</i>	orm: fern	RESEARCH CENTER
Species Code: P	hySco	Synonym(s):				
Common Name	(s): laua'e fei	rn, wart fern				
Status on Wake	: cultivated	Wo	ake Risk Assessment:	low		
Recorded by:	Fosberg a	nd Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Sui	rvey?
Comments: This fern specie	s is unlikely to	spread beyond v	where it is actively pla	anted and cultivate	d.	

Herbst 1998 distribution:
Wilkes:
X
Wake:
Peale:

2019 survey distribution:
Wilkes N:
Wilkes S:
Wake:
X
Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



2019 survey distribution:

## Psilotum nudum

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	Plant Group:	Ferns	Family: Psilotacea	е	Life For	m: fern	***	ARCH CE
Species Code: Ps	iNud	Synonym(s):						
Common Name(	s): moa; wisk	fern						
Status on Wake:	alien-natura	lized Wal	ke Risk Assessment	: low				
Recorded by:	Fosberg an	d Sachet 1969	Herbst 1998	X	2019 Survey	New in 2019 Sur	vey?	Υ
Comments:								
	,	0 0	y one spot at the be accumulation. It is			•		е
Herbst 1998 dist	ribution:		Wilkes:	Wake	: Pea	ale:		

Wake: X

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Herbst 1998 distribution:

2019 survey distribution:

## Pseuderanthemum carruthersii



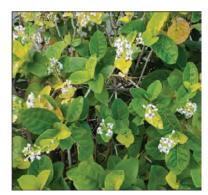
				×			
Plant 0	Group: Dicots	Family: Acanthaceae	Life For	m: shrub	PESEARCH CENTER		
Species Code: PseCar	Synonym(s):	Pseuderanthemum carro	uthersii var. carrut	hersii			
Common Name(s): Car	ruthers' falseface; ye	llow-veined Eranthemum	١				
Status on Wake: cultiv	ated V	Vake Risk Assessment: lo	w				
Recorded by: X Fosk	erg and Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Survey	/?		
Comments:							
This species is unlikely to spread beyond where it is actively planted and cultivated.							

Wilkes:

Wilkes S:

Wake: X

Wake: X



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



## Pseuderanthemum carruthersii var. atropurpureum



Plant Group: Dicots Family: Acanthaceae Life Form: shrub Synonym(s): Pseuderanthemum carruthersii var. atropurpura

Species Code: PseCarAtr

Common Name(s): purple false Eranthemum

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution: Wilkes: Peale: Wake: X 2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Sesuvium portulacastrum



Plant Group: Dicots Family: Aizoaceae Life Form: herb

Species Code: SesPor Synonym(s):

Common Name(s): shoreline seapurslane; `akulikuli

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments

This native succulent plant was found to be common around wetland sites and other locations near the shoreline on Wake and Peale Islets.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



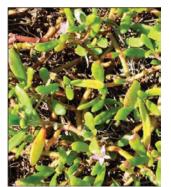
Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## **Amaranthus blitum**

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Plant G	Group: Dicots	Family: Amaranthaceae	Life Form: herb
Species Code: AmaBli	Synonym(s):	Amaranthus viridis	

Common Name(s): purple amaranth, sender amaranth

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 Herbst 1998 X 2019 Survey New in 2019 Survey?

## Comments:

This weedy herb was not seen by Herbst in his 1994 or 1998 surveys, but it was found on both Wilkes (S) and Wake Islets in 2019.

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:XWake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## **Amaranthus dubius**



Plant Group: Dicots Family: Amaranthaceae Life Form: herb	FARCH
Species Code: AmaDub Synonym(s):	
Common Name(s): spleen amaranth, red spinach	
Status on Wake: alien-naturalized Wake Risk Assessment: low	
Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Sur	vey?
Comments: This weedy herb was seen by Herbst in his 1994 or 1998 surveys and was also found on both Wilkes (S) ar Islets in 2019.	nd Wake
Herbst 1998 distribution: Wilkes: Wake: X Peale:	
2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:	



Photograph: Edwin G. Más and María de L. Lugo-Torres, courtesy of Smithsonian Institution



Photograph: Warren L. Wagner, courtesy of Smithsonian Institution



Photograph: Forest and Kim Starr, Starr Environmental



## Amaranthus graecizans



Pi	lant Group:	Dicots	Family: Amara	inthaceae	Life Form: herb	SEARCH C
Species Code: Ama	Gra	Synonym(s):				
Common Name(s):	Mediterrane	ean amaranth, s	short-tepalled pig	gweed		
Status on Wake: 3	alien-natural	lized W	ake Risk Assessm	ent: low		
Recorded by: X	Fosberg and	d Sachet 1969	Herbst 19	98 X 201	19 Survey New in 2	019 Survey?
Comments:						
This weedy herb was surveys; however, i		, .		969 but not se	en by Herbst in his 19	994 or 1998
Herbst 1998 distrib	ution:		Wilkes:	Wake:	Peale:	
2019 survey distrib	ution: W	/ilkes N:	Wilkes S:	Wake: X	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Adenium obesum



	Plant Group:	Dicots	Family: Apocynace	ae	Life Forr	n: shrub	PESEARCH CEN
Species Code: A	deObe	Synonym(s):					
Common Name(	's): desert rose	2					
Status on Wake:	cultivated	Wa	ke Risk Assessment:	low			
Recorded by:	Fosberg a	nd Sachet 1969	Herbst 1998	X 201	9 Survey	New in 2019 Surve	ey? Y
Comments: This small wood planted on both	•	•	ed where during the	2019 surv	ey where i	t had apparently be	en

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



#### Catharanthus roseus

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	Plant Group:	Dicots	Family: Apocynaceae	Life Form: herb
_		_		

Species Code: CatRos Synonym(s):

Common Name(s): periwinkle, Madagascar periwinkle

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Status on Wake: cultivated

## Nerium oleander



Plant Group	: Dicots	Family: Apocynaceae	Life Form: shrub
Species Code: NerOle	Synonym(s):		
Common Name(s): oleander			

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Wake Risk Assessment: low

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution: Wilkes: Wake: X Peale: 2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Plumeria obtusa



Plant Group: Dicots Family: Apocynaceae Life Form: tree

Species Code: PluObt Synonym(s):
Common Name(s): plumeria, frangipani

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Plumeria rubra



	Plant Group:	Dicots	Fan	nily: Apocynace	ae	Life For	m: tree	.,
Species Code: P	luRub	Synonym(s):						
Common Name	(s): common	frangipani, red fr	angip	oani				
Status on Wake	cultivated	Wa	ke Ri	isk Assessment:	low			
Recorded by:	Fosberg ar	nd Sachet 1969	Χ	Herbst 1998	Χ	2019 Survey	New in 2019	Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Polyscias fruticosa



Plant Group:	Dicots	Family: Araliaceae	Life Form: shrub
--------------	--------	--------------------	------------------

Species Code: PolFru Synonym(s):

Common Name(s): Mingaralia

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Polyscias guilfoylei



Plant Group	Dicots	Family: Araliaceae	Life Fo	rm: shrub	PESEARCH				
Species Code: PolGui	Synonym(s):								
Common Name(s): panax, geranium aralia									
Status on Wake: cultivated	Wa	ake Risk Assessment:	low						
Recorded by: X Fosberg a	nd Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Survey	٨;				
Comments: This species is unlikely to spre	ad beyond where	e it is actively planted	d and cultivated.						

Herbst 1998 distribution: Wilkes: Wake: X Peale:

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Polyscias scutellaria



	Plant Group:	Dicots	Fan	nny: Aranaceae		Life For	m: Shrub	
Species Code: Pol	Scu	Synonym(s):						
Common Name(s,	: shield ara	lia, plum aralia						
Status on Wake:	cultivated	W	ake Ri	sk Assessment:	low			
Recorded by:	Fosberg ar	nd Sachet 1969	X	Herbst 1998	Χ	2019 Survey	New in 2019	Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution: Wilkes:			Wake:	Χ	Peale:	
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Schefflera actinophylla



	Plant Group:	Dicots	Family: Araliaceae	Life Form: tree			
Species Code: Sc	hAct	Synonym(s):	Brassaia actinophylla				
Samuel Alama (s), a stance trace trace trace							

Common Name(s): octopus tree, umbrella tree

Status on Wake: cultivated Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



## Bidens alba



Plant Group: Dicots Family: Asteraceae Life Form: herb

Species Code: BidAlb Synonym(s):

Common Name(s): beggarticks, Spanish needles

Status on Wake: alien-invasive Wake Risk Assessment: medium

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This highly invasive herb in the sunflower family was found to be widespread on both Wake and the south part of Wilkes Islets during the 2019 survey, although Herbst also documented it from Peale Islet in 1998. In previous lists this species has been identified as *Bidens pilosa* var. *minor*.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## **Erigeron canadensis**



Plant Group: Dicots Family: Asteraceae Life Form: herb

Species Code: EriCan Synonym(s): Conyza canadensis

Common Name(s): Canada fleabane, horseweed

Status on Wake: alien-naturalized Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This is a very common weedy herb species that is found throughout the atoll. However, it is currently only found in a few small areas on the north section of Wilkes Islet.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



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Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



#### Pluchea carolinensis



Plant Group: Dicots Family: Asteraceae Life Form: shrub

Species Code: PluCar Synonym(s):
Common Name(s): sourbush, fleabane

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This highly invasive introduced shrub was found on all of the islets by both Herbst in 1994 and 1998, as well as during the 2019 survey. However, it was not very abundant on the north part of Wilkes Islet and potentially could be eradicated there.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale: X



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Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Tridax procumbens



Plant Group:	Dicots	Family: Asteraceae	Life Form: herb
Species Code: TriPro	Synonym(s):		

Status on Wake: alien-invasive Wake Risk Assessment: low

Common Name(s): coatbuttons, tridax daisy

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

Herbst found this small introduced herb to be common on all of the islets during his 1994 and 1998 surveys. However, it was only recorded on Wake and Peale during the 2019 survey.

Herbst 1998 distribution:Wilkes:XWake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



## Tabebuia aurea



Plant Group:	Dicots	Family: Bignoniaceae	e Life For	m: tree	ESEARCH
Species Code: TabAur	Synonym(s):	Tabebuia argentea			
Common Name(s): silver trump	oet-tree				
Status on Wake: cultivated	V	Vake Risk Assessment: lo	OW		
Recorded by: Fosberg ar	nd Sachet 1969	Herbst 1998	X 2019 Survey	New in 2019 Survey	? Y
Comments: This introduced tree was only to species is unlikely to spread be				rt of Wake Islet. This	

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



## Brassica nigra



Plant Group: Dicots Family: Brassicaceae Life Form: herb

Species Code: BraNig Synonym(s):

Common Name(s): black mustard

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This weedy mustard species has only been documented growing in disturbed sites on Wake Islet.

Herbst 1998 distribution: Wilkes: Wake: X Peale:

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



Photograph: Forest and Kim Starr, Starr Environmental



## Lepidium bidentatum



Plant Group: Dicots Family: Brassicaceae Life Form: herb

Species Code: LepBid Synonym(s):

Common Name(s): pepperwort

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This small native shrub was found growing on the north part of Wilkes Islet and in a few locations on Peale. It is extremely abundant locally, particularly where it is found near in and adjacent to the Bird Sanctuary on Peale Islet.

 Herbst 1998 distribution:
 Wilkes:
 X
 Wake:
 Peale:

 2019 survey distribution:
 Wilkes N:
 X
 Wilkes S:
 Wake:
 Peale:
 X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



## Nopalea cochenillifera



Plant Group:DicotsFamily: CactaceaeLife Form: shrubSpecies Code:NopCocSynonym(s):Opuntia cochenillifera

Common Name(s): cochinilla cactus

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This potentially invasive species of cactus was found growing in a few sites around the residential area on the northwest part of Wake Islet as well as in a few locations along the central "road" that runs through the center of Peale Islet. It is likely that this species will be able to spread to more locations on Peale and the other islets if not controlled.

Herbst 1998 distribution:		Wilkes:	Wake:	Χ	Peale:	Χ
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:	Χ



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### **Opuntia littoralis**



	Plant Group:	Dicots	Family:	Cactaceae	Life Form:	shrub
_		_				

Species Code: OpuLit Synonym(s):

Common Name(s): coastal prickley pear cactus

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This potentially invasive species of this cactus was found growing in just one location along the central "road" that runs through the center of Peale Islet. It is likely that this species will be able to spread to more locations on Peale and the other islets if not controlled.

Herbst 1998 distribution: Wilkes: Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Carica papaya



Plant Group:	Dicots	Family: Caricaceae	Life Form: tree
Species Code: CarPap	Synonym(s):		

Common Name(s): papaya

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Casuarina equisetifolia



Plant Group: Dicots Family: Casuarinaceae Life Form: tree

Species Code: CasEqu Synonym(s):

Common Name(s): Ironwood; Australian pine tree

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This tall introduced tree is a highly invasive species that can completely dominate the vegetation where it becomes established. This species was found on all of the islets on Wake Atoll and appears able to continue to spread without management. An intensive effort to control this species was evident on Peale Islet during the 2019 survey as well in selected areas on Wake and Wilkes Islets.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey

Wake Atoll Plant Photo Key From 2019 Survey



the atoll.

# Gynandropsis gynandra



	Plant Group:	Dicots	Family: Cleomacea	ie	Life For	m: herb	*
Species Code: Gy	vnGyn	Synonym(s):	Cleome gynandra				
Common Name(	s): African spic	ler-flower					
Status on Wake:	alien-natura	alized V	Vake Risk Assessment:	low			
Recorded by:	Fosberg ar	nd Sachet 1969	X Herbst 1998	Χ	2019 Survey	New in 2019 St	ırvey?
Comments: This highly invasi	ve herb was f	ound to be loc	ally common in several	l sites	on Wake and I	Peale Islets durin	ig the

Herbst 1998 distribution:

Wilkes:

Wake: X

Peale: X

2019 survey distribution:

Wilkes N:

Wilkes S:

Wake: X

Peale: X

2019 survey. Although not seen there in 2019, there is apparently a small population of this plant on the north part of Wilkes Islet. This species may still be able to be controlled and stopped from spreading to other areas on



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Terminalia catappa



Plant Group:	Dicots	Family: Combretaceae	Life Form: tree

Species Code: TerCat Synonym(s):

Common Name(s): Indian almond, false kamani

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments

This large tree species was found growing in several locations near the residential area at the northwest part of Wake Islet. It appears to be reproducing naturally and has the potential to continue to spread throughout this coastal habitat if not controlled.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



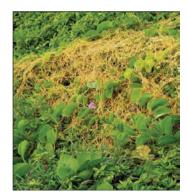
Photograph: J. Jacobi, U.S. Geological Survey



# Cuscuta pentagona



	Plant Group:	Dicots	Family: Convolvula	aceae <i>Life</i>	Form: vine	ESEARCH			
Species Code: Cu	ısPen	Synonym(s):							
Common Name(s): fiveangled dodder									
Status on Wake: alien-naturalized Wake Risk Assessment: medium									
Recorded by:	Fosberg ar	nd Sachet 1969	X Herbst 1998	2019 Sur	vey New in 2019	Survey?			
Comments:									
This native vine was not documented during the 2019 survey, but Herbst found it on Wake Islet during his 1998 survey. This species is generally found growing in the vegetation along coastlines on other islands in the Pacific, including Hawai`i. Note: the photos shown on this page are of a related species ( <i>Cuscuta sandwichiana</i> ) from Hawai`l but show the general growth-form of this plant.									
Herbst 1998 dist	ribution:		Wilkes:	Wake: X	Peale:				
2019 survey dist	ribution: V	Vilkes N:	Wilkes S:	Wake:	Peale:				



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Ipomoea pes-caprae subsp. Brasiliensis



Plant Group: Dicots Family: Convolvulaceae Life Form: vine

Species Code: IpoPesBra Synonym(s):

Common Name(s): beach morning-glory, pohuehue; puhuehue

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This native vine was found to be very common along the ocean-facing shorelines of Wilkes, Wake, and Peale Islets during all past surveys.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



# Ipomoea violacea



Plant Group: Dicots Family: Convolvulaceae Life Form: vine

Species Code: IpoVio Synonym(s): Ipomoea tuba

Common Name(s): beach moon-flower, heavenlyblue morning-glory

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This native vine was found to be very common growing in inland sites on Wilkes, Wake, and Peale Islets during all past surveys.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Kalanchoe delagoensis



	Plant Group:	Dicots	Fan	nily: Crassulacea	ae	Life Fori	n: herb		ARC
Species Code: Kall	Del	Synonym(s):							
Common Name(s)	: chandelier	olant							
Status on Wake:	alien-invasiv	/e	Wake R	isk Assessment:	medi	um			
Recorded hv	Fosherg an	nd Sachet 196	9 X	Herhst 1998	Χ	2019 Survey	New in 20	)19 Survey?	)

Comments

This introduced ornamental species has primarily been planted around buildings and beach houses on Wake and Peale Islets. It definitely has the potential to spread much more away from cultivation with time.

Herbst 1998 distribution:Wilkes:XWake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Kalanchoe pinnata



	Plant Group:	Dicots	Family: Crassulaceae	Life Form: herb
Species Code: Ka	lPin	Synonym(s):		
Common Name(s	s): air plant,	cathedral bells		

Wake Risk Assessment: high Status on Wake: alien-invasive

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

This succulent herb is highly invasive and has to potential to expand its range greatly if not controlled. It has so far only been located in a few locations on Wake Islet including the industrial area and near the residence areas on

Herbst 1998 distribution: Wilk			Wake:	Χ	Peale:	
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Х	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



### Coccinia grandis



Plant Group: Dicots Family: Cucurbitaceae Life Form: vine

Species Code: CocGra Synonym(s):

Common Name(s): ivygourd

Status on Wake: cultivated Wake Risk Assessment: high

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This introduced, highly invasive vine has been considered noxious in Hawai'i. It was only found growing as an ornamental in one residential site on the northwest part of Wake Islet. It has great potential for spread if it is dispersed elsewhere on Wake.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Starr Environmental



### Cordia subcordata



Plant Group: Dicots Family: Ehretiaceae Life Form: tree

Species Code: CorSub Synonym(s):

Common Name(s): kou

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This native tree with bright orange flowers was found occasionally growing in many inland sites on all of the islets on Wake Atoll. It was formerly more abundant based on Fosberg's accounts in the 1960s.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Codiaeum variegatum



Plant Group: Dicots Family: Euphorbiaceae Life Form: shrub

Species Code: CodVar Synonym(s):

Common Name(s): garden croton or variegated croton

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Euphorbia heterophylla var. cyathophora



Plant Group: Dicots Family: Euphorbiaceae Life Form: herb

Species Code: EupHetCya Synonym(s): Euphorbia cyathophora

Common Name(s): dwarf poinsettia, wild poinsettia

Status on Wake: alien-invasive Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This introduced wild poinsettia was found growing on Wake and Peale Islets during all previous surveys. It has the potential to become more abundant if not controlled.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Euphorbia hirta

Family: Euphorbiaceae Life Form: herb

Species Code: EupHir Synonym(s): Chamaesyce hirta

Plant Group: Dicots

Common Name(s): hairy spurge, garden spurge

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments

This small herb is widespread and relatively common, particularly in disturbed areas on all of the islets on the atoll.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Euphorbia hypericifolia



Plant Group: Dicots Family: Euphorbiaceae Life Form: shrub
Species Code: EupHyp Synonym(s): Euphorbia hypericifolia, Euphorbia glomerifera

Common Name(s): graceful spurge

Status on Wake: alien-invasive Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This more upright growing introduced herb was found growing in several locations on all three islets, but only on the south part of Wilkes during the 2019 survey. This weedy plant has the potential to continue to spread if not controlled.

Herbst 1998 distribution:Wilkes:XWake:Peale:X2019 survey distribution:Wilkes N:Wilkes S:XWake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Euphorbia prostrata



Plant Group: Dicots Family: Euphorbiaceae Life Form: herb

Species Code: EupPro Synonym(s): Chamaesyce prostrata

Common Name(s): prostrate purge or prostrate sandmat

Status on Wake: alien-invasive Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This small introduced herb was found growing in more disturbed sites on Wake Islet, although Herbst reported seeing it on Peale Islet in 1994.

Herbst 1998 distribution:Wilkes:Wake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Euphorbia thymifolia



Plant Group: Dicots Family: Euphorbiaceae Life Form: herb

Species Code: EupThy Synonym(s): Chamaesyce thymifolia

Common Name(s): chickenweed

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This small introduced herb was found growing only in a few disturbed sites on Wake Islet in both 1994 and during the 2019 survey.

Herbst 1998 distribution: Wilkes:			Wake:	Χ	Peale:	
2019 survev distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Jatropha integerrima



Plant Group: Dicots Family: Euphorbiaceae Life Form: shrub

Species Code: Jatint Synonym(s):
Common Name(s): rose-flowered jatropha

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Comments:

This ornamental tree species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Herbst 1998 distribution:

2019 survey distribution:

# Bauhinia sp.



	Plant Group:	Dicots	Family: Fabaceae	Life For	m: tree	Mesearch CENTE
Species Code: Ba	auSp	Synonym(s):				
Common Name(	s): orchid tree					
Status on Wake:	cultivated	Wa	ke Risk Assessment:	medium		
Recorded by:	X Fosberg a	nd Sachet 1969	Herbst 1998	X 2019 Survey	New in 2019 Survey	?
Comments: This ornamental	tree species i	s unlikely to sprea	ad beyond where it is	actively planted an	d cultivated.	

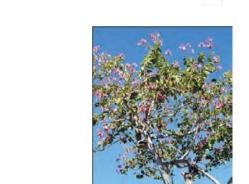
Wake:

Wake:

Χ

Wilkes:

Wilkes S:



Photograph: J. Jacobi, U.S. Geological Survey

Wilkes N:



Peale:

Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Caesalpinia bonduc



	Plant Group:	Dicots	Family: Fabaceae	Life Form: vine	ESEARCH C
Species Code: Ca	eBon	Synonym(s):			
Common Name(s	): grey nicker,	nicker bean, kaka	alaoa		
Status on Wake:	cultivated	Wa	ke Risk Assessment: mediur	m	
Recorded by:	Fosberg ar	d Sachet 1969	X Herbst 1998	2019 Survey New in 2019 Surve	ey?
Comments:					
	•	,	Herbst in 1998. This vine is and its grey seeds are hard	very distinctive in that its stems h I and round like marbles.	ave

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:Peale:



 ${\bf Photograph: Forest\ and\ Kim\ Starr, Starr\ Environmental}$ 



Photograph: Forest and Kim Starr, Starr Environmental



Photograph: Forest and Kim Starr, Starr Environmental



Photograph: Forest and Kim Starr, Starr Environmental



# Dalea emarginata



	Plant Group:	Dicots	Family: Fabaceae		Life Forr	m: herb	TESEARCH CET
Species Code: Da	alEma	Synonym(s):					
Common Name(	s): wedgeleaf	prairie clover					
Status on Wake:	alien-natura	alized Wa	ke Risk Assessment:	low			
Recorded by:	Fosberg ar	nd Sachet 1969	Herbst 1998	Χ	2019 Survey	New in 2019 Sur	rvey? Y
		0 .	eviously published su early 2000s. This pla	,		*	

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Gilardi, Island Conservation



Photograph: J. Jacobi, U.S. Geological Survey



# Delonix regia



Plant Group:	Dicots	Family: Fabaceae	Life	e Form: tree	***
Species Code: DelReg	Synonym(s):				
Common Name(s): poinciana	, flame tree				
Status on Wake: cultivated	Wa	ike Risk Assessment:	low		
Recorded by: Fosberg ar	nd Sachet 1969	X Herbst 1998	X 2019 Sur	vey New in 2019	Survey?

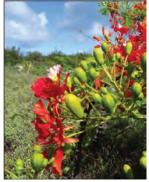
Comments:

This tall tree with bright red flowers has been planted in several locations around the residence area on the northwest part of Wake Islet as well as behind the Solid Waste Accumulation Area. It is not clear if it is able to spread naturally on Wake.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Desmanthus pernambucanus



Plant Group:	Dicots	Family: Fabaceae	Life For	m: shrub	PESEAR				
Species Code: DesPer	Synonym(s):								
Common Name(s): wild tantan, dwarf koa									
Status on Wake: alien-invasive Wake Risk Assessment: medium									
Recorded by: Fosberg a	nd Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Surv	ey?				
Comments:  This small introduced shrub was found on Wake and Peale Islets during the 2019 survey. It has compound leaves, similar to Desmanthus virgatus and also to Leucaena leucocephala. However, it can be distinguished by the bright red structures at the base of most leaf petioles (stems).									

Herbst 1998 distribution:
Wilkes:
Wake:
X
Peale:
X

2019 survey distribution:
Wilkes N:
Wilkes S:
Wake:
X
Peale:
X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Desmanthus virgatus



Plant Grot	up: Dicots	Family: Fabace	ae	Life Forn	1: snrub		ARCH
Species Code: DesVir	Synonym(s):						
Common Name(s): wild ta	ntan, dwarf koa						
Status on Wake: alien-inv	asive W	/ake Risk Assessm	ent: low				
Recorded by: X Fosberg	g and Sachet 1969	Herbst 19	98 X 2	019 Survey	New in	2019 Survey?	
Comments:							
This introduced shrub in the dark red to blackish seed po of the industrial area as we	ods. This weedy pla	ant was found to b	e reproduc	ing and sprea	ding on	Ü	!
Herbst 1998 distribution:		Wilkes:	Wake:	Pea	le:		
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	X Pea	le:		



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Gliricidia sepium



	Plant Group	: Dicots	Family: Fabaceae		Life Fori	m: tree	Mes	TARCH CENTE
Species Code: G	SliSep	Synonym(s):						
Common Name	(s): Gliricidia							
Status on Wake	: cultivated	W	ake Risk Assessment:	low				
Recorded by:	Fosberg a	nd Sachet 1969	Herbst 1998	X 201	.9 Survey	New in 2019	Survey?	Υ
		,	nd growing near a res				ake Islet.	lt

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Leucaena leucocephala



Plant Group: Dicots Family: Fabaceae Life Form: tree

Species Code: LeuLeu Synonym(s):

Common Name(s): koa haole, tangantangan, lead tree

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This highly invasive legume was recorded from both Peale and Wake Islets by Fosberg and Sachet in the 1960s and also found there in subsequent surveys. This tall shrub/small tree has the potential to spread throughout most of the inland sites on Wake Atoll and completely dominate the native vegetation.

Herbst 1998 distribution: Wilkes: Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Pithecellobium dulce



	Plant Group:	Dicots	Family: Fabaceae	Life For	m: tree	AESE,
Species Code: P	itDul	Synonym(s):				
Common Name	(s): opiuma, I	Manila tamarind				
Status on Wake.	cultivated	Wa	ike Risk Assessment:	low		
Recorded by:	Fosberg a	nd Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Survey	/?
	•				house on Wake Islet. ft. This species is unlil	

Herbst 1998 distribution: Wilkes: Wake: X Peale: X 2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



to spread beyond where it is actively planted and cultivated.

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Samanea saman



	Plant Group:	Dicots	Family: Fabaceae	Life Form: tree
Species Code: S	amSam	Synonym(s):	Albizia saman	
0 41	/ )	.1		

Common Name(s): monkeypod

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 Herbst 1998 X 2019 Survey New in 2019 Survey? Y

#### Comments:

This large tree had not been recorded in previous surveys. Several large trees were found near residences on the northwest side of Wake Islet as well as a few smaller individuals in pots in the resident apartment area.

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Sesbania grandiflora



Plant Group: Dicots	Family: Fabaceae	Life Form: tree	PESEAR
Species Code: SesGra Synonym(s)	:		
Common Name(s): hummingbird tree, sca	arlet wisteria		
Status on Wake: cultivated	Wake Risk Assessment: low	N	
Recorded by: Fosberg and Sachet 19	69 X Herbst 1998 X	2019 Survey New in 2019	9 Survey?
Comments: This legume tree/shrub was found planted flowers and long green/brown seedpods. Cultivated.	•		•

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Tamarindus indica



Plant Group:	DICOLS	ramily: Fabaceae	Lije Form: tree	
Species Code: TamInd	Synonym(s):			
Common Name(s): tamarind				
Status on Wake: cultivated		Wake Risk Assessment: low		

Comments:

Recorded by:

Tamarind tree was found during the 2019 survey growing by the residence area on the northwest part of Wake Islet and on Peale. This species is unlikely to spread beyond where it is actively planted and cultivated.

X Herbst 1998

Herbst 1998 distribution: Wilkes: Wake: X Peale:

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



Fosberg and Sachet 1969

Photograph: J. Jacobi, U.S. Geological Survey



X 2019 Survey New in 2019 Survey?

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



#### Scaevola sericea

\*\*\*\*

Plant Group: Dicots Family: Goodeniaceae Life Form: shrub

Species Code: ScaSer Synonym(s): Scaevola sericea var. taccada, S. taccada

Common Name(s): beach naupaka, naupaka kahakai

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This native shrub is very common throughout the Pacific islands where it colonizes coastal lowland sites, particularly just above the high-tide line. Although it was found only in a few locations on Wake and the southern part of Wilkes Islets, it was likely much more widely distributed throughout the atoll prior to human disturbance.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale:



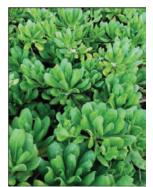
Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Euploca procumbens var. depressum



Plant Group: Dicots Family: Heliotropiaceae Life Form: herb

Species Code: EupProDep Synonym(s): Heliotropium procumbens var. depressum

Common Name(s): fourspike heliotrope

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments

This small introduced shrub is widely distributed on all of the islets on Wake Atoll. It has small white flowers on scorpion-like floral spikes and its leaves have long white hairs on both sides of the leaves.

Herbst 1998 distribution:Wilkes:XWake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:XWake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Heliotropium anomalum



Plant Group:	Dicots	Family: Heliotropiaceae	Life Form: herb
Species Code: HelAno	Synonym(s):		

Common Name(s): hinahina, Polynesian heliotrope

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This native herb is related to the tall *Heliotropium foertherianum* trees that form the dominant tree canopy in most of the relatively undisturbed or recovering sites throughout the atoll. This plant was only found in two locations on the south and northwest parts of Wake Islet. It was likely much more abundant in the past but is sensitive to disturbance.

Herbst 1998 distribution:		Wilkes:	Χ	Wake:	Χ	Peale:	
2019 survey distribution:	Wilkes N:	Wilkes S:		Wake:	Χ	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Heliotropium foertherianum



Plant Group: Dicots Family: Heliotropiaceae Life Form: tree

Species Code: HelFoe Synonym(s): Tournefortia argentea

Common Name(s): tree heliotrope, octopus bush

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

2019 survey distribution:

This native tree is the dominant species throughout the undisturbed or recovering areas on all of the islets on Wake Atoll. It forms an open to closed canopy from shoreline up to the most inland sites; however, the understory is generally relatively open with either a grass or scattered shrub layer under the trees.

Wilkes S: X

Wake: X

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale: X

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Vitex trifolia



Plant Group: Dicots Family: Lamiaceae Life Form: shrub

Species Code: VitTri Synonym(s):

Common Name(s): blue vitex

Status on Wake: cultivated Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This small tree has been planted as an ornamental near a few residences on both Wake and Peale Islets. It has distinctive purple-violet flowers and light-colored undersides of the leaves.

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



Photograph: J. Gilardi, Island Conservation



Photograph: J. Gilardi, Island Conservation



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Barringtonia asiatica



Plant Group:	Dicots	Family: Lecythidaceae	Life Form: tree
Species Code: BarAsi	Synonym(s):		

Common Name(s): fish poison tree

σσ.....στ. ετα....ε(σ). ...... μετα......

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This tall tree has a very distinctive large top-shaped fruit and bright white inflorescences with pink tinges on the ends of the stamens. Only one small tree was found near a residence on the northwest part of Wake Islet. It is not clear if it has the potential to spread on the atoll.

Herbst 1998 distribution:		Wilkes:	Wake:	Χ	Peale:	
2010 survey distribution:	Wilkoc NI:	Wilkoc S.	Wake:	V	Poalo:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Pemphis acidula



Plant Group: Dicots Family: Lythraceae Life Form: shrub

Species Code: PemAci Synonym(s):

Common Name(s): pemphis

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This native shrub forms a dominant band of vegetation particularly around the lagoon-side shores of the three islets, except where this habitat has been heavily disturbed. It has very distinctive stiff, dark green leaves and bright white flowers.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Abutilon indicum subsp. albescens



Plant Group: Dicots Family: Malvaceae Life Form: shrub

Species Code: AbuIndAlb Synonym(s): Abutilon asiaticum var. albescens

Common Name(s): Indian mallow

Status on Wake: alien-naturalized Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced shrub has been recorded on Wake and Peale islets ever since the 1960s. Although its weed risk is considered to be low in the literature, it appears to be spreading in several areas on the atoll and could be problematic if not controlled.

Herbst 1998 distribution: Wilkes: Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Gossypium stephensii



Plant Group: Dicots Family: Malvaceae Life Form: shrub

Species Code: GosSte Synonym(s):

Common Name(s): Wake Island cotton

Status on Wake: endemic Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This native cotton is the only plant species that is endemic to Wake Atoll (i.e., found no where else). It has large maple-like leaves that are covered with small white hairs. The large showy flower is white with patches of redorange at the base of each petal; its fruit is a capsule that contains white cotton fibers that remain attached to the capsule after it opens. This species appears to be easily spreading into formerly disturbed areas.

Herbst 1998 distribution:Wilkes:XWake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:XWake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Gilardi, Island Conservation



Photograph: J. Gilardi, Island Conservation



# Hibiscus hybrid



Plant Group: Dicots Family: Malvaceae Life Form: shrub

Species Code: HibHyb Synonym(s):

Common Name(s): Hibiscus

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

Several different varieties of *Hibiscus* were found to be planted around residence and administrative buildings on both Wake and Peale Islets. This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution: Wilkes: Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X





Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Sida ciliaris



	Plant Group:	Dicots	Family: Malvacea	ie	Life Form:	herb	FARCH C
Species Code: Sic	dCil	Synonym(s):					
Common Name(s	s): fringed Sic	la					
Status on Wake:	alien-natura	lized Wa	ıke Risk Assessmen	t: low			
Recorded by:	Fosberg an	d Sachet 1969	Herbst 1998	X	2019 Survey No	ew in 2019 Surve	y? Y
Comments:							
but was identifie	d by M. Waite	and J. Gilardi d	cus family was not uring the 2000s. It ustrial area and th	can be c	listinguished by i	ts small reddish-	orange
Jul 1071							
Herbst 1998 dist	ribution:		Wilkes:	Wake:	Peale:		
2019 survey disti	ribution: W	/ilkes N:	Wilkes S:	Wake:	X Peale:		



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Sida fallax



Plant Group: Dicots Family: Malvaceae Life Form: shrub

Species Code: SidFal Synonym(s):

Common Name(s): ilima

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This native shrub in the Hibiscus family is very widespread on all of the islets on Wake Atoll. It has very recognizable yellow-orange flowers and silvery-green foliage. It can be found growing in both natural and undisturbed sites, generally forming a scattered understory layer.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Talipariti tiliaceum



	Plant Group:	Dicots	Family: Malvaceae	Life Form: tree
Species Code: Tal	Til	Synonym(s):	Hibiscus tiliaceus	
Common Name(s	;): hau, sea h	ibiscus		
Status on Wake:	cultivated		Wake Risk Assessment: medium	

### Comments:

Recorded by:

This small tree is native to many Pacific islands but is not know to naturally occur on Wake Atoll. It was found planted in just one site near a beach house on the lagoon side of Wake Islet. It is considered to be a moderate weed risk in areas like Hawai'i and has the potential to naturally spread in the few wetland areas and along the lagoon sides of the three islets on Wake.

X Herbst 1998

Herbst 1998 distribution:		Wilkes:	Wake:	Χ	Peale:
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:



Fosberg and Sachet 1969

Photograph: J. Jacobi, U.S. Geological Survey



X 2019 Survey New in 2019 Survey?

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Thespesia populnea



Plant Group: Dicots Family: Malvaceae Life Form: tree

Species Code: ThePop Synonym(s):

Common Name(s): milo

Status on Wake: cultivated Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced tree in the Hibiscus family is considered to be a high weed risk and has the potential to spread to many areas on Wake Atoll if not controlled. It was found only in a few sites on Wake Islet during the 2019 survey but was also previously reported from Peale Islet.

Herbst 1998 distribution: Wilkes: Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Forest and Kim Starr, Star Environmental



### Waltheria indica



Plant Group: Dicots Family: Malvaceae Life Form: herb

Species Code: Wallnd Synonym(s):

Common Name(s): uhaloa

Status on Wake: native Wake Risk Assessment: native species

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This native shrub was recorded on all of the islets during the 2019 plant survey. It can be found in both disturbed and undisturbed sites and forms part of the native understory along with *Sida fallax* and several other small shrub species.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Warren L. Wagner, courtesy of Smithsonian Institution



2019 survey distribution:

# Ficus benghalensis



	Plant Group:	Dicots	Family: Moraceae		Life Forn	n: tree	1888	ARCH C
Species Code: Fic	Ben	Synonym(s):						
Common Name(s	): banyan							
Status on Wake:	cultivated	Wal	ke Risk Assessment.	: low				
Recorded by:	Fosberg an	d Sachet 1969	Herbst 1998	X 2019	9 Survey	New in 2019 S	urvey?	Υ
Comments:								
	ugh many fig	species are consid	nd only planted ne dered to be highly i s on Wake Atoll.					
Herbst 1998 distr	ibution:		Wilkes:	Wake:	Pea	le:		

Wake: X

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Ficus carica



Plant Group: Dicots Family: Moraceae Life Form: tree

Species Code: FicCar Synonym(s):

Common Name(s): edible fig

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced edible fig species was found growing in a few sites near residences on the northwest part of Wake Islet. This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:		Wilkes:	Wake:	Χ	Peale:	
2019 survey distribution.	Wilkes N.	Wilkes S.	Wake.	Y	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Ficus microcarpa



Plant Group: Dicots Family: Moraceae Life Form: tree

Species Code: FicMic Synonym(s):

Common Name(s): Chinese banyan, Indian laurel fig

Status on Wake: cultivated Wake Risk Assessment: medium

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced species in the fig family was found only planted near one residence on the northwest part of Wake Islet and at Peale Islet. Although many fig species are considered to be highly invasive elsewhere, the dry habitat will likely limit the distribution and impact of these species on Wake Atoll.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



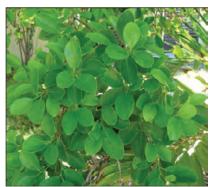
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Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Psidium guajava



Pla	int Group: Dicots	Family: Myrtaceae	Life Form: tree
Species Code: PsiGu	a Synonym(	(s):	
Common Name(s):	common guava, lem	non guava	
Status on Wake: Cu	ultivated	Wake Risk Assessment: medi	um

Comments:

Recorded by:

Fosberg and Sachet 1969 X Herbst 1998

X

X 2019 Survey New in 2019 Survey?

This introduced shrub/small tree is considered to be invasive in Hawai'i and many other areas in the Pacific. It definitely has the potential to spread to many areas on Wake Atoll but currently lacks a means for dispersal (fruit-eating birds). Only one plant was recorded during the 2019 survey near a residence on the northwest part of Wake Islet. This species should be considered for removal to reduce its potential threat.

Herbst 1998 distribution:		Wilkes:	Wake:	Χ	Peale:	
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Boerhavia albiflora



Plant Group: Dicots Family: Nyctaginaceae Life Form: herb

Species Code: BoeAlb Synonym(s):

Common Name(s): spiderling

Status on Wake: native Wake Risk Assessment: native species

Recorded by: Fosberg and Sachet 1969 Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

Three species of *Boerhavia* were recorded on Wake Atoll during the 2019 survey. One species was identified as *B. albiflora* based on its leaf and flower characteristics. It was found only on Peale Islet during this survey. This species was not previously recorded by either Fosberg or Herbst during their earlier surveys.

Herbst 1998 distribution: Wilkes: Wake: Peale:

2019 survey distribution: Wilkes N: Wilkes S: Wake: Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Gilardi, Island Conservation



Photograph: J. Jacobi, U.S. Geological Survey



### Boerhavia coccinea



Plant Group:	Dicots Far	mily: Nyctaginaceae	Life Forr	n: herb	SAR
Species Code: BoeCoc S	ynonym(s):				
Common Name(s): scarlet spide	erling				
Status on Wake: alien-naturalize	ed Wake R	isk Assessment: nativ	e species		
Recorded by: Fosberg and	Sachet 1969	Herbst 1998 X	2019 Survey	New in 2019 Surve	y? Y
Comments: Three species of Boerhavia were recorded, was identified as B. cool during this survey.		•			

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Boerhavia repens

Family: Nyctaginaceae Life Form: herb



Species Code: BoeRep Synonym(s):
Common Name(s): red spiderling, hogweed

Plant Group: Dicots

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

Three species of *Boerhavia* were recorded on Wake Atoll during the 2019 survey. One species (described here) was keyed out to be *B. repens* based on its leaf and flower characteristics. It was found on Wake and Wilkes Islets during this survey. This species was previously recorded by both Fosberg and Herbst during their earlier surveys.

Herbst 1998 distribution:Wilkes:XWake:Peale:X2019 survey distribution:Wilkes N:XWilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Bougainvillea spectabilis



	Plant Group	Dicots	Family: Nyctaginad	ceae	Life Form	: shrub	TESE
Species Code: B	ouSpe	Synonym(s):					
Common Name	(s): bougainvil	lea					
Status on Wake:	alien-natur	alized Wo	ake Risk Assessment:	low			
Recorded by:	X Fosberg a	nd Sachet 1969	X Herbst 1998	X 201	9 Survey	New in 2019 Surv	/ey?
Wake and Peale	Islets. Althou	gh it generally se	planted in many site ems to not spread b s near older planted	eyond whe	re it was pla	anted, numerous	

Herbst 1998 distribution:Wilkes:Wake:XPeale:X2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Pisonia grandis



Plant Group: Dicots Family: Nyctaginaceae Life Form: tree

Species Code: PisGra Synonym(s):

Common Name(s): papala kepau

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This native tree was found growing among the *Heliotropium* and *Cordia* trees on all of the islets during the 2019 survey. Fosberg reported that it was previously much more abundant in the early 1960s, but many trees were destroyed during clearing of its habitat. This species has very distinctively sticky seed pods.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

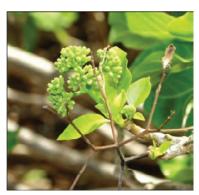
2019 survey distribution: Wilkes N: X Wilkes S: Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



2019 survey distribution:

# Nymphaea sp.



Plant	t Group: Dicots	Family: Nymphaeace	ae <i>Life Forn</i>	n: aquatic herb	RESEARCH CENT
Species Code: NymSp	Synonym(s):				
Common Name(s): lotu	us, waterlily				
Status on Wake: cult	rivated Wo	ake Risk Assessment: lo	W		
Recorded by:	sberg and Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Sur	vey?
	were only found growin ecies can be invasive in c ike Atoll.				
Herbst 1998 distributio	on:	Wilkes: Wa	ake: X Pea	le: X	

Wake: X

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Jasminum sambac



Plo	ant Group:	Dicots	Family: Oleaceae		Life Form:	shrub	ARCH
Species Code: JasSa	m	Synonym(s):					
Common Name(s): A	Arabian jası	mine, Sambacjas	mine				
Status on Wake: C	ultivated	Wa	ke Risk Assessment:	low			
Recorded by:	Fosberg an	d Sachet 1969	X Herbst 1998	X 2019	Survey N	ew in 2019 Survey?	1
Comments: This small introduce	d ornamen	tal shrub was fou	and planted in a few	sites on the	northwest	part of Wake Islet.	

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:

This species is unlikely to spread beyond where it is actively planted and cultivated.



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Passiflora foetida var. hispida



Plant Group: Dicots Family: Passifloraceae Life Form: vine

Species Code: PasFoeHis Synonym(s):

Common Name(s): passion fruit, scarletfruit passionflower

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced vine in the passion fruit family was found to be established in a few wild sites on both Wake and Wilkes (south) Islets. This species is considered to be highly invasive and can spread over and smother the ground vegetation if not controlled.

Herbst 1998 distribution:Wilkes:XWake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:XWake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Gilardi, Island Conservation



Photograph: J. Gilardi, Island Conservation



# Phyllanthus acidus



Plant Group: Dicots Family: Phyllanthaceae Life Form: shrub

Species Code: PhyAci Synonym(s):
Common Name(s): Otaheite gooseberry

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced ornamental tree was found planted near residence and administration buildings on the northwest part of Wake Islet. This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Phyllanthus amarus



Plant Group: Dicots	Family: Phyllanthaceae	Life Form: shrub	ARSEARCH CENTE
Species Code: PhyAma Synonyr	n(s):		
Common Name(s): hurricane weed, car	ry me seed		
Status on Wake: alien-invasive	Wake Risk Assessment: low		
Recorded by: X Fosberg and Sacher	t 1969 Herbst 1998 X	2019 Survey New in 2019 Sur	rvey?
Comments:			
This small introduced weedy herb was was found to be widespread, it does no	•	•	ugh it

Herbst 1998 distribution:Wilkes:Wake:Peale:2019 survey distribution:Wilkes N:Wilkes S:XWake:XPeale:X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Coccoloba uvifera



Plant Group: Dicots Family: Polygonaceae Life Form: tree

Species Code: CocUvi Synonym(s):

Common Name(s): seagrape

Status on Wake: alien-invasive Wake Risk Assessment: high

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 2019 Survey New in 2019 Survey?

### Comments:

The introduced sea grape tree is considered to be highly invasive in many areas throughout the Pacific islands and definitely has the potential for spread and dominance of the native vegetation on Wake Atoll. This species was found on both Wake and Peale Islets during the 2019 survey and was also previously recorded by Fosberg and Herbst during their early surveys.

Wake: X

Herbst 1998 distribution: Wilkes: Wake: X Peale: X 2019 survey distribution:

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Peale: X

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Portulaca lutea



Plant Group: Dicots Family: Portulacaceae Life Form: herb

Species Code: PorLut Synonym(s):

Common Name(s): yellow purslane

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This native succulent herb was found on all of the islets on Wake Atoll during the 2019 survey and was also recorded by Fosberg and Herbst during their earlier surveys. Although this species appears to be very similar in appearance to the introduced *Portulaca oleracea*, the native species can be recognized by the presence of stiff brown hairs at the base of the leaves where they attach to the stem of the plant.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Portulaca oleracea



Plant Group: Dicots Family: Portulacaceae Life Form: herb

Species Code: PorOle Synonym(s):

Common Name(s): purslane, hogweed, pigweed

Status on Wake: alien-naturalized Wake Risk Assessment: low

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

#### Comments:

This introduced *Portulaca* species is very similar in appearance to the native *Portulaca lutea*. However, it can generally be distinguished by its red stems and the lack of stiff brown hairs at the base of the leaves where they attach the main stem of the plant.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: Warren L. Wagner, courtesy of Smithsonian Institution





### Gardenia taitensis



Plant Group:	Dicots	Family: Rubiaceae	Life Form: shrub

Species Code: GarTai Synonym(s):

Common Name(s): tiare

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced ornamental shrub species was found planted around several residence buildings on Wake Islet. It is a low weed risk threat and is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:		Wilkes:	Wake:	Χ	Peale: X
2019 survey distribution:	Wilkes N	Wilkes S.	Wake <sup>.</sup>	Χ	Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Ixora sp.



	Plant Group:	Dicots	Family: Rubiaceae	Life Form: shrub
Species Code: Ixo	Sp	Synonym(s):		

Common Name(s): ixora

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced ornamental shrub with very showy orange-red (sometimes white) flowers was found planted around several residences on the northwest part of Wake Islet. This species is unlikely to spread beyond where it is actively planted and cultivated.

Herbst 1998 distribution:		Wilkes:	Wake:	Peale: X
2019 survey distribution:	Wilkes N.	Wilkes S:	Wake: X	Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Morinda citrifolia



Plai	nt Group:	Dicots	Family: Rubiaceae	Life For	m: tree	ESEAR
Species Code: MorCit	: 5	Synonym(s):				
Common Name(s):	noni, Indiai	n-mulberry				
Status on Wake: ali	en-invasive	e Wa	ke Risk Assessment:	medium		
Recorded by:	osberg and	d Sachet 1969	X Herbst 1998	X 2019 Survey	New in 2019 Survey?	
Comments:						
	use it has l lants were	been introduced also found adja	l. This species was fo	und only in a few lo	e native to Wake Atoll cations on Wake Islet, apable of spreading	

Herbst 1998 distribution: Wilkes: Wake: X Peale: 2019 survey distribution: Wilkes N: Wilkes S: Wake: X Peale:



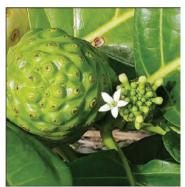
Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Oldenlandia corymbosa



Family: Rubiaceae Plant Group: Dicots Life Form: herb Species Code: OldCor Synonym(s): Hedyotis corymbosa Common Name(s): flat-top mille graines, diamond flower Status on Wake: alien-naturalized Wake Risk Assessment: low Recorded by: Fosberg and Sachet 1969 Herbst 1998 2019 Survey New in 2019 Survey? Comments: This small introduced herb was not recorded previously by either Fosberg or Herbst but was identified on Wake by M. Waite and J. Gilardi in the early 2000s. This plant has very small, inconspicuous flowers and indistinctive foliage and can be easily missed. It was found established in a few sites on both Wake and Peale Islets during the 2019 survey. Herbst 1998 distribution: Wilkes: Wake: Peale: 2019 survey distribution:

Wake:

Wilkes S:



Wilkes N:

Photograph: J. Jacobi, U.S. Geological Survey



Peale: X

Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Manilkara zapota



Plant Group:	Dicots	Family: Sapotaceae	Life Form: tree
Species Code: ManZap	Synonym(s):		

Common Name(s): sapodilla

Status on Wake: cultivated Wake Risk Assessment: low

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced tree was found planted in only one site near the residence compound on the northwest part of Wake Islet. It appears to pose a low weed risk and is unlikely to spread beyond where it is currently planted.

Herbst 1998 distribution: Wilkes:		Wilkes:	Wake:	Χ	Peale:	
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:	



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Solanum torvum



Plant Group: Dicots Family: Solanaceae Life Form: shrub

Species Code: SolTor Synonym(s):

Common Name(s): turkeyberry, pea eggplant

Status on Wake: alien-naturalized Wake Risk Assessment: medium

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced shrub/small tree was found planted in several locations in the residence area on the northwest part of Wake Islet as well as growing naturally near the Solid Waste Accumulation Area on the southeastern part of Wake Islet. This species is considered to pose a medium weed risk for spreading into other areas on the atoll.

Herbst 1998 distribution:Wilkes:Wake:XPeale:2019 survey distribution:Wilkes N:Wilkes S:Wake:XPeale:



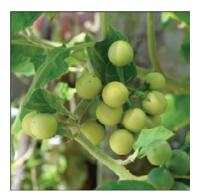
Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



# Polypremnum procumbens



	Plant Group:	Dicots	Family: Tetrachond	raceae	Life Form:	herb	PESEARCH CEN
Species Code: Po	lPro	Synonym(s):					
Common Name(	s): Juniper leaf	F					
Status on Wake:	alien-natura	alized Wal	ke Risk Assessment:	low			
Recorded by:	Fosberg ar	nd Sachet 1969	Herbst 1998	X 2019 S	Survey N	New in 2019 Surve	5À5 A
Comments:							
	it is definitely	established in th	ras found only in a for ne wild, it likely pose			•	





Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Status on Wake: alien-invasive

# Pilea microphylla



	Plant Group:	Dicots	Family: Urticaceae	Life Form: herb
Species Code: Pil	Mic	Synonym(s):		
Common Name(s	s): artillery pla	nt		

Recorded by: Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

Wake Risk Assessment: low

### Comments:

This small introduced herb was only found around residence and other buildings on the northwest part of Wake Islet where there appeared to be additional moisture. This species is not considered to be a threat for spreading beyond these unique habitats.

Herbst 1998 distribution:		Wilkes:	Wake:	Χ	Peale:
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:



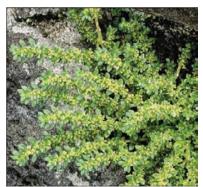
Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Stachytarpheta jamaicensis



Plant Group: Dicots Family: Verbenaceae Life Form: shrub

Species Code: StaJam Synonym(s):

Common Name(s): Jamaica vervain, light-blue snakeweed

Status on Wake: alien-invasive Wake Risk Assessment: medium

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This introduced shrub was found to be established on all of the islets on Wake Atoll during the 2019 survey. It was also recorded previously by Fosberg and Herbst during their earlier surveys. While several other species of *Stachytarpheta* have been listed as being found on Wake previously, all of the plants found during the 2019 survey keyed out to *S. jamaicensis*. This species does pose a weed risk and may be considered for control.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: Wilkes S: X Wake: X Peale: X



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### Tribulus cistoides

Family: Zygophyllaceae Life Form: shrub

Species Code: TriCis Synonym(s):

Plant Group: Dicots

Common Name(s): nohu

Status on Wake: native Wake Risk Assessment: native species

Recorded by: X Fosberg and Sachet 1969 X Herbst 1998 X 2019 Survey New in 2019 Survey?

### Comments:

This native shrub with bright yellow flowers and silky-green foliage was found in a few locations on Wake Islet. However, it was very abundant in the Bird Sanctuary area on Wilkes Islet where it formed a dense native shrub community intermixed with *Lepidium bidentatum* and *Portulaca lutea*.

Herbst 1998 distribution: Wilkes: X Wake: X Peale: X

2019 survey distribution: Wilkes N: X Wilkes S: Wake: X Peale:



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



Photograph: J. Jacobi, U.S. Geological Survey



### **Tribulus terrestris**



	Plant Group	Dicots	Family: Zygophylla	ceae	Life Forr	n: shrub	*
Species Code: To	riTer	Synonym(s):					
Common Name	(s): puncture	vine					
Status on Wake	: alien-invas	ive We	ake Risk Assessment:	low			
Recorded by:	Fosberg a	nd Sachet 1969	X Herbst 1998	X 201	9 Survey	New in 2019 Sur	rvey?
Comments:							

This small introduced species of *Tribulus* was found in just a few locations, primarily in the lawns near the residence areas, on the northwest part of Wake Islet. It was also recorded previously by Herbst in his 1994 and 1998 surveys.

Herbst 1998 distribution:	Wilkes:	Wake:	Χ	Peale:		
2019 survey distribution:	Wilkes N:	Wilkes S:	Wake:	Χ	Peale:	



Photograph: James L. Reveal, courtesy of Smithsonian Institution



Photograph: James L. Reveal, courtesy of Smithsonian Institution



Photograph: Forest and Kim Starr, Starr Environmental



Photograph: Forest and Kim Starr, Starr Environmental

# **Appendix B3. Plant Specimens Collected on Wake Atoll in 2019**

**Table B3.1.** List of plant specimens collected during U.S. Geological Survey sampling on Wake Atoll in 2019. Names for two *Boerhavia* species have been updated after these specimens were deposited in the B.P. Bishop Museum Herbarium: *B. diffusa=B. coccinea* and *B. tetrandra=B. albiflora*.

Islet: Wa, Wake; Wi-N, Wilkes (north islet); Wi-S, Wilkes (south islet); P, Peale. Status: A, alien; A-I, alien invasive; A-N, alien naturalized; Nat, native; Cul, cultivated]

Date	Collector	Islet	Collection number	Plant group	Family	Taxon name	Life form	Status
27 May 2019	J. Jacobi	Wa	JDJ-2019-22	Monocots	Cyperaceae	Fimbristylis cymosa R.Br.	Sedge	Nat
27 May 2019	J. Jacobi	Wa	JDJ-2019-27	Monocots	Cyperaceae	Fimbristylis dichotoma (L.) Vahl	Sedge	A-N
28 May 2019	J. Jacobi	Wa	JDJ-2019-39	Monocots	Cyperaceae	Fimbristylis dichotoma (L.) Vahl	Sedge	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-25	Monocots	Poaceae	Bothriochloa pertusa (L.) A.Camus	Grass	A-N
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-56	Monocots	Poaceae	Bothriochloa pertusa (L.) A.Camus	Grass	A-N
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-59	Monocots	Poaceae	Bothriochloa pertusa (L.) A.Camus	Grass	A-N
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-61	Monocots	Poaceae	Bothriochloa pertusa (L.) A.Camus	Grass	A-N
03 Jun 2019	J. Jacobi	Wa	JDJ-2019-68	Monocots	Poaceae	Bothriochloa pertusa (L.) A.Camus	Grass	A-N
28 May 2019	J. Jacobi	Wa	JDJ-2019-43	Monocots	Poaceae	Cenchrus echinatus L.	Grass	A-I
05 Jun 2019	J. Jacobi	Wa	JDJ-2019-75	Monocots	Poaceae	Cenchrus echinatus L.	Grass	A-I
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-60	Monocots	Poaceae	Chloris barbata Sw.	Grass	A-I
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-12	Monocots	Poaceae	Dactyloctenium aegyptium (L.) Willd.	Grass	A-N
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-6	Monocots	Poaceae	Eleusine indica (L.) Gaertn.	Grass	A-N
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-13	Monocots	Poaceae	Eleusine indica (L.) Gaertn.	Grass	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-28	Monocots	Poaceae	Eleusine indica (L.) Gaertn.	Grass	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-21	Monocots	Poaceae	Eragrostis amabilis (L.) Wight & Arn.	Grass	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-16	Monocots	Poaceae	Eragrostis scabriflora Swallen	Grass	A-N
28 May 2019	J. Jacobi	Wi-S	JDJ-2019-33	Monocots	Poaceae	Eragrostis scabriflora Swallen	Grass	A-N
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-62	Monocots	Poaceae	Eragrostis scabriflora Swallen	Grass	A-N
03 Jun 2019	J. Jacobi	Wa	JDJ-2019-67	Monocots	Poaceae	Eragrostis scabriflora Swallen	Grass	A-N
28 May 2019	J. Jacobi	Wi-S	JDJ-2019-40	Monocots	Poaceae	Eustachys petraea (Sw.) Desv.	Grass	A-N
30 May 2019	J. Jacobi	P	JDJ-2019-47	Monocots	Poaceae	Eustachys petraea (Sw.) Desv.	Grass	A-N
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-4	Monocots	Poaceae	Lepturus repens (G.Forst.) R.Br.	Grass	Nat
28 May 2019	J. Jacobi	Wi-S	JDJ-2019-31	Monocots	Poaceae	Lepturus repens (G.Forst.) R.Br.	Grass	Nat
28 May 2019	J. Jacobi	Wa	JDJ-2019-37	Monocots	Poaceae	Lepturus repens (G.Forst.) R.Br.	Grass	Nat
28 May 2019	J. Jacobi	Wa	JDJ-2019-38	Monocots	Poaceae	Lepturus repens (G.Forst.) R.Br.	Grass	Nat
28 May 2019	J. Jacobi	Wa	JDJ-2019-41	Monocots	Poaceae	Lepturus repens (G.Forst.) R.Br.	Grass	Nat
28 May 2019	J. Jacobi	Wa	JDJ-2019-42	Monocots	Poaceae	Lepturus repens (G.Forst.) R.Br.	Grass	Nat
31 May 2019	J. Jacobi	P	JDJ-2019-52	Monocots	Poaceae	Lepturus repens (G.Forst.) R.Br.	Grass	Nat

**Table B3.1.** List of plant specimens collected during U.S. Geological Survey sampling on Wake Atoll in 2019. Names for two *Boerhavia* species have been updated after these specimens were deposited in the B.P. Bishop Museum Herbarium: *B. diffusa=B. coccinea* and *B. tetrandra=B. albiflora*.—Continued

[Islet: Wa, Wake; Wi-N, Wilkes (north islet); Wi-S, Wilkes (south islet); P, Peale. Status: A, alien; A-I, alien invasive; A-N, alien naturalized; Nat, native; Cul, cultivated]

Date	Collector	Islet	Collection number	Plant group	Family	Taxon name	Life form	Status
27 May 2019	J. Jacobi	Wa	JDJ-2019-29	Monocots	Poaceae	Paspalum scrobiculatum L.	Grass	A-I
30 May 2019	J. Jacobi	P	JDJ-2019-49	Monocots	Poaceae	Paspalum setaceum Michx.	Grass	A-N
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-58	Monocots	Poaceae	Paspalum setaceum Michx.	Grass	A-N
03 Jun 2019	J. Jacobi	Wa	JDJ-2019-66	Monocots	Poaceae	Paspalum setaceum Michx.	Grass	A-N
29 May 2019	J. Jacobi	Wi-S	JDJ-2019-45	Dicots	Amaranthaceae	Amaranthus blitum L.	Herb	A-N
04 Jun 2019	J. Jacobi	Wa	JDJ-2019-69	Dicots	Amaranthaceae	Amaranthus dubius Mart.	Herb	A-N
28 May 2019	J. Jacobi	Wi-S	JDJ-2019-34	Dicots	Asteraceae	Erigeron canadensis L.	Herb	A-N
30 May 2019	J. Jacobi	Wa	JDJ-2019-50	Dicots	Asteraceae	Erigeron canadensis L.	Herb	A-N
28 May 2019	J. Jacobi	Wi-S	JDJ-2019-30	Dicots	Asteraceae	Pluchea carolinensis (Jacq.) G. Don	Shrub	A-I
06 Jun 2019	J. Jacobi	Wa	JDJ-2019-77	Dicots	Bignoniaceae	Tabebuia aurea (Manso) Benth. & Hook. fil. ex S. Moore	Tree	Cul
25 May 2019	J. Jacobi	Wa	JDJ-2019-2	Dicots	Brassicaceae	Brassica nigra (L.) W.D.J. Koch	Herb	A-N
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-9	Dicots	Brassicaceae	Lepidium bidentatum Montin	Herb	Nat
25 May 2019	J. Jacobi	Wa	JDJ-2019-3	Dicots	Cleomaceae	Gynandropsis gynandra (L.) Briq.	Herb	A-N
04 Jun 2019	J. Jacobi	Wa	JDJ-2019-71	Dicots	Euphorbiaceae	Euphorbia hirta L.	Herb	A-N
29 May 2019	J. Jacobi	Wi-S	JDJ-2019-44	Dicots	Euphorbiaceae	Euphorbia hypericifolia L.	Shrub	A-I
30 May 2019	J. Jacobi	P	JDJ-2019-48	Dicots	Euphorbiaceae	Euphorbia hypericifolia L.	Shrub	A-I
27 May 2019	J. Jacobi	Wa	JDJ-2019-19	Dicots	Euphorbiaceae	Euphorbia thymifolia L.	Herb	A-N
03 Jun 2019	J. Jacobi	Wa	JDJ-2019-65	Dicots	Euphorbiaceae	Euphorbia thymifolia L.	Herb	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-15	Dicots	Fabaceae	Dalea emarginata (Torr. and A.Gray) Shinners	Herb	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-18	Dicots	Fabaceae	Desmanthus pernambucanus (L.)Thell.	Shrub	A-I
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-57	Dicots	Fabaceae	Desmanthus pernambucanus (L.)Thell.	Shrub	A-I
04 Jun 2019	J. Jacobi	Wa	JDJ-2019-70	Dicots	Fabaceae	Desmanthus virgatus (L.)Willd.	Shrub	A-I
06 Jun 2019	J. Jacobi	Wa	JDJ-2019-79	Dicots	Fabaceae	Gliricidia sepium (Jacq.)Walp.	Tree	Cul
27 May 2019	J. Jacobi	Wa	JDJ-2019-20	Dicots	Heliotropiaceae	Euploca procumbens var. depressum (Chamisso)	Herb	A-N
31 May 2019	J. Jacobi	P	JDJ-2019-54	Dicots	Lamiaceae	Vitex trifolia L.	Shrub	Cul
06 Jun 2019	J. Jacobi	Wa	JDJ-2019-78	Dicots	Lamiaceae	Vitex trifolia L.	Shrub	Cul
31 May 2019	J. Jacobi	P	JDJ-2019-51	Dicots	Malvaceae	Abutilon indicum subsp. albescens (Miq.) Borssum Waalkes	Shrub	A-N
02 Jun 2019	J. Jacobi	Wa	JDJ-2019-64	Dicots	Malvaceae	Sida ciliaris L.	Herb	A-N
05 Jun 2019	J. Jacobi	Wa	JDJ-2019-73	Dicots	Malvaceae	Sida ciliaris L.	Herb	A-N
05 Jun 2019	J. Jacobi	Wa	JDJ-2019-76	Dicots	Malvaceae	Talipariti tiliaceum (L.) Fryxell	Tree	Cul

Appendix B3. Plant Specimens Collected on Wake Atoll in 2019

**Table B3.1.** List of plant specimens collected during U.S. Geological Survey sampling on Wake Atoll in 2019. Names for two *Boerhavia* species have been updated after these specimens were deposited in the B.P. Bishop Museum Herbarium: *B. diffusa=B. coccinea* and *B. tetrandra=B. albiflora*.—Continued

[Islet: Wa, Wake; Wi-N, Wilkes (north islet); Wi-S, Wilkes (south islet); P, Peale. Status: A, alien; A-I, alien invasive; A-N, alien naturalized; Nat, native; Cul, cultivated]

Date	Collector	Islet	Collection number	Plant group	Family	Taxon name	Life form	Status
27 May 2019	J. Jacobi	Wa	JDJ-2019-26	Dicots	Nyctaginaceae	Boerhavia diffusa L.	Herb	Nat
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-5	Dicots	Nyctaginaceae	Boerhavia repens L.	Herb	Nat
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-7	Dicots	Nyctaginaceae	Boerhavia repens L.	Herb	Nat
31 May 2019	J. Jacobi	P	JDJ-2019-53	Dicots	Nyctaginaceae	Boerhavia tetrandra Forst. fil.	Herb	Nat
28 May 2019	J. Jacobi	Wi-S	JDJ-2019-35	Dicots	Passifloraceae	Passiflora foetida var. hispida (DC. ex Triana & Planchon) Killip ex Gleason	Vine	A-I
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-10	Dicots	Portulacaceae	Portulaca lutea SoI. ex Seem.	Herb	Nat
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-8	Dicots	Portulacaceae	Portulaca oleracea L.	Herb	A-N
28 May 2019	J. Jacobi	Wi-S	JDJ-2019-36	Dicots	Portulacaceae	Portulaca oleracea L.	Herb	A-N
01 Jun 2019	J. Jacobi	Wa	JDJ-2019-55	Dicots	Rubiaceae	Oldenlandia corymbosa L.	Herb	A-N
04 Jun 2019	J. Jacobi	Wa	JDJ-2019-72	Dicots	Solanaceae	Solanum torvum Swartz	Shrub	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-14	Dicots	Tetrachondra- ceae	Polypremum procumbens L.	Herb	A-N
27 May 2019	J. Jacobi	Wa	JDJ-2019-17	Dicots	Verbenaceae	Stachytarpheta jamaicensis (L.) Vahl	Shrub	A-I
26 May 2019	J. Jacobi	Wi-N	JDJ-2019-11	Dicots	Zygophyllaceae	Tribulus cistoides L.	Shrub	Nat
25 May 2019	J. Jacobi	Wa	JDJ-2019-1	Dicots	Zygophyllaceae	Tribulus terrestris L.	Shrub	A-I