



Plant species list from the biodiversity planting in vegetable farms project

DISCLAIMER: Every effort has been taken to provide accurate information in this resource but ALT, VNZI and Onions NZ disclaim all liability in relation to the information it contains.

AUGUST 2024/VERSION 2

Permanent Plantings

Purpose: Planted to provide year round food sources, and shelter for the beneficial insects over winter. The species were also selected based on full growth size in order to avoid impeding machinery and minimise maintenance e.g., trimming.



Ground Covers

Common name	Species
Purple bidibidi	<i>Acaena inermis purpurea</i>
Glaucous bidibidi, Piripiri	<i>Acaena caesiiglauca</i>
New Zealand grass/Sedge	<i>Carex comans (brown)</i>
New Zealand grass/Sedge	<i>Carex comans (green)</i>
Forest sedge, Solander's sedge	<i>Carex solandrii</i>
Orange Sedge	<i>Carex testacea</i>
Groundcover Coprosma	<i>Coprosma acerosa 'Hawera'</i>
Horokaka, Native ice plant, New Zealand ice plant	<i>Disphyma austral</i>
Shore cotula	<i>Leptinella dioica</i>
Panakenake, White star creeper	<i>Lobelia angulata (formerly Pratia angulata)</i>
Carmine Rātā, Crimson Rātā	<i>Metrosideros carminea 'red carpet'</i>
Creeping wire vine	<i>Muehlenbeckia axillaris</i>
Alpine pratia	<i>Pratia puberula</i>
n/a	<i>Pratia puberula alba</i>
Pinatoro, New Zealand daphne	<i>Pimelea 'Flat White'</i>
Pinatoro, New Zealand daphne	<i>Pimelea 'Blue Peter'</i>
Pinatoro, New Zealand daphne	<i>Pimelea prostrata 'Silver Ghost'</i>



Shrubs

Common name	Species
Korokio	<i>Corokia cotonaster 'Little Prince'</i>
Senecio	<i>Brachyglottis 'Leiths Gold'</i>
Forest sedge, Bush sedge	<i>Carex lambertiana</i>
Swamp sedge, Pukio	<i>Carex virgata</i>
Putaputaweta, Marble Leaf	<i>Carpodetus serratus prostrata</i>
Sand coprosma, Tātaraheke	<i>Coprosma acerosa</i>
Thin-leaved coprosma	<i>Coprosma areolate</i>
Mingimingi	<i>Coprosma crassifolia</i>
Leafy coprosma	<i>Coprosma parviflora</i>
Twiggy coprosma	<i>Coprosma rhamnoides</i>
Prickly mingimingi	<i>Cyathodes juniperina</i>
Cutting sedge	<i>Gahnia pauciflora</i>
Porcupine bush	<i>Melicytus alpinus</i>
Turutu, New Zealand blueberry	<i>Dianella nigra</i>
n/a	<i>Melicytus obovatus</i>
n/a	<i>Metrosideros 'Wee Willie Winkie' PVR</i>
Weeping matipo, weeping mapou	<i>Myrsine divaricate</i>
Mountain akeake	<i>Olearia avicenniceafolia</i>
Streamside tree daisy, Daisy bush	<i>Olearia chesmannii</i>
Hard-leaved tree daisy, Coin leaved tree daisy	<i>Olearia nummulariifolia</i>
Scented tree daisy	<i>Olearia odorata</i>
Coastal tree daisy, Coastal shrub daisy, Golden tree daisy	<i>Olearia solandri</i>
Tauhini, Cottonwood	<i>Ozothamnus leptophyllus</i>
Pittosporum	<i>Pittosporum anomalum</i>
Tauhini	<i>Pomaderris amoena</i>
Kumarahou, Gum-digger's soap, Golden tainui	<i>Pomaderris kumeraho</i>
Wrinkle leaf pomaderris	<i>Pomaderris rugosa</i>
Dwarf kōwhai	<i>Sophora prostrata</i>



Native groundcover. Permanent plantings.

Temporary Plantings

Purpose: Planted to cover the ground during non-cropping periods, cover crops protect the soil from rain compaction, heating by the sun, increase rain infiltration and thus reduce losses due to run-off. They also provide a non-cropping habitat for beneficials, whilst helping to support microbial soil life and assisting with weed suppression.

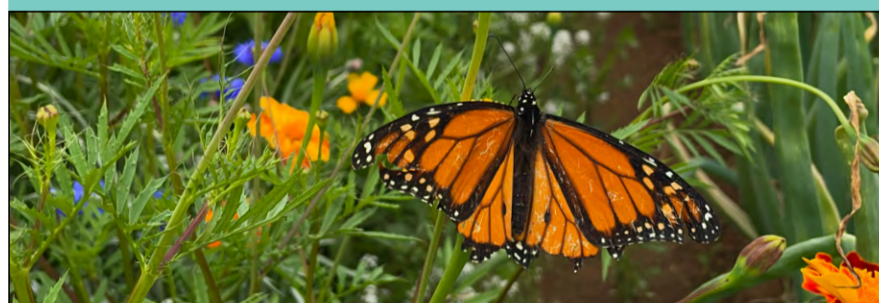


Cover Crops

Common name	Species	Family
Buckwheat	<i>Fagopyrum esculentum</i>	Polygonaceae
Phacelia	<i>Phacelia tanacetifolia</i>	Boraginaceae
Berseem Clover	<i>Trifolium alexandrinum</i>	Fabaceae
Linseed	<i>Linum usitatissimum</i>	Linaceae
Vetch	<i>Vicia villosa</i>	Fabaceae



Native shrubs and groundcovers. Permanent plantings.



Monarch Butterfly. Danaus plexippus. Beneficial insects.

Purpose: Planted to provide SNAP for beneficial insects. Planted at intervals, they provide corridors of flowers promoting beneficials to move through the crop.

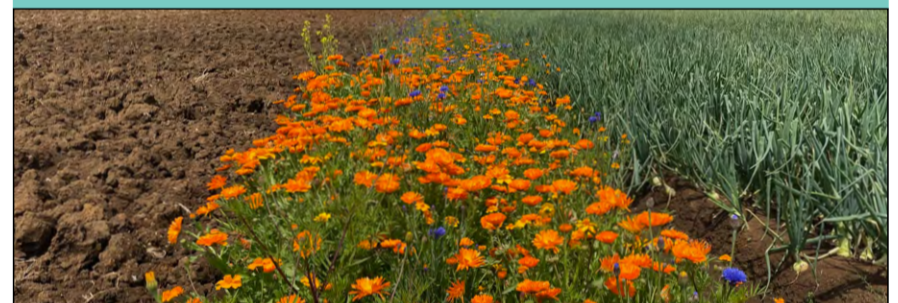


Annual Strips

Common name	Species	Family
Buckwheat	<i>Fagopyrum esculentum</i>	Polygonaceae
Alyssum	<i>Lobularia maritima</i>	Brassicaceae
Cornflower	<i>Centaurea cyanus</i>	Asteraceae
Marigold	<i>Tagetes patula</i>	Asteraceae
Calendula	<i>Calendula officinalis</i>	Asteraceae



Temporary plantings, annual strips in spring.



Temporary plantings, annual strips in late summer.



Vegetable Crops

Common name	Species	Family
Lettuce	<i>Lactuca sativa</i>	Asteraceae
Onion	<i>Allium cepa</i>	Liliaceae
Pumpkin	<i>Cucurbita maxima</i>	Cucurbitaceae
Broccoli	<i>Brassica oleracea var. italica</i>	Brassicaceae
Barley	<i>Hordeum vulgare</i>	Poaceae
Sweetcorn	<i>Zea mays</i>	Poaceae

Note: these crops are being included in rotation on farm.

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Moveable Pods


Purpose: The pods provide another means of bringing nectar sources into the crop to encourage beneficial insects to move through, without the need for plantings in the ground. The moveable format enables the pods to be located at hot spots and moved from crop to crop as required.



"Insectaries" moveable pods at the Pukekohe demonstration farm.



Pollinators attracted to the moveable pods.

 Mixed	
Common name	Species
n/a	<i>Anaphalioides spp</i>
Putaputaweta, Marble Leaf	<i>Carpodetus serratus prostrata</i>
Quick silver hebe	<i>Veronica pimeleoides 'Quicksilver'</i>
Shore leptinella, Shore cotula	<i>Leptinella dioica</i>
Seal Island button daisy	<i>Leptinella 'Seal Island'</i>
Northland button daisy	<i>Leptinella rotundata</i>
Manuka 'flat'	<i>Leptospermum scoparium (flat)</i>
Manuka Kiwi	<i>Leptospermum scoparium Kiwi</i>
Manuka Kea	<i>Leptospermum scoparium Kea</i>
Creeping wire vine	<i>Muehlenbeckia axillaris</i>
Parahebe 'snowcap'	<i>Parahebe catarractae 'Snowcap'</i>
Pinatoro, New Zealand daphne	<i>Pimelea 'anatoki'</i>
Pinatoro, New Zealand daphne	<i>Pimelea prostrata</i>
Pinatoro, New Zealand daphne	<i>Pimelea prostrata 'Silver Ghost'</i>
Pinatoro, New Zealand daphne	<i>Pimelea prostrata 'Blue Peter'</i>
n/a	<i>Pomaderris edgerleyi</i>



Pod being moved at the Pukekohe demonstration farm.

Have any feedback?

This is the second version of the resource, which will continue to be updated as new knowledge is gathered from this five-year project. Species suitable for other locations may vary from this and further information is available on the website. If you have any feedback on what would improve the next version of this resource, please let us know using the contact details below.

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