

Table S1: Weed species recorded across surveys

Common name	Genus species	Family	% of fields
Joyweed	<i>Alternanthera</i> spp.	Amaranthaceae	0.1
Bathurst burr	<i>Xanthium spinosum</i> L.	Asteraceae	0.9
Capeweed	<i>Arctotheca calendula</i> (L.) Levyns	Asteraceae	1.9
Cotula, Common	<i>Cotula australis</i> (Siever ex. Spreng) Hook .F.	Asteraceae	0.1
Cudweed	<i>Gnaphalium</i> spp.	Asteraceae	5.1
Daisy	<i>Brachycome</i> spp.	Asteraceae	0.1
Flat weed	<i>Hypochoeris radicata</i> L.	Asteraceae	1.0
Fleabane, Flaxleaf	<i>Conyza bonariensis</i> (L.) Conquist	Asteraceae }	12.4
Fleabane, Tall	<i>Conyza albida</i> Willd. ex Spreng	Asteraceae }	
Ox Tongue	<i>Picris echiodes</i> L.	Asteraceae	0.3
Prickly lettuce	<i>Lactuca serriola</i> L.	Asteraceae	13.8
Skeleton weed	<i>Chondrilla juncea</i> L.	Asteraceae	5.4
Sow thistle	<i>Sonchus oleraceus</i> L.	Asteraceae	34.2
Thistle, Saffron	<i>Carthamus lanatus</i> L.	Asteraceae }	4.5
Thistle, Scotch	<i>Onopordum acanthium</i> L.	Asteraceae }	
Thistle, Spear	<i>Cirsium vulgare</i> (Savi.) Ten.	Asteraceae }	
Thistle, Variegated	<i>Silybum marianum</i> L.	Asteraceae }	
Amsinckia	<i>Amsinckia intermedia</i> Fisch & C.A.Meyer	Boraginaceae	0.1
Heliotrope	<i>Heliotropium europaeum</i> L.	Boraginaceae	0.5
Paterson's curse	<i>Echium plantagineum</i> L.	Boraginaceae	4.5
African turnip weed	<i>Sisymbrium thellungii</i> O. E. Schulz	Brassicaceae	0.4
Buchan Weed	<i>Hirschfeldia incana</i> (L.) Lagrèze-Fossat	Brassicaceae	0.8
Indian hedge mustard	<i>Sisymbrium orientale</i> L.	Brassicaceae	5.4
Peppercress	<i>Lepidium hyssopifolium</i> Desv.	Brassicaceae	1.4
Shepherds purse	<i>Capsella bursa-pastoris</i> (L.) Medik	Brassicaceae	2.6
Turnip weed	<i>Rapistrum rugosum</i> (L.) All.	Brassicaceae	0.7
Wild radish	<i>Raphanus raphanistrum</i> L.	Brassicaceae	4.2
Wild turnip	<i>Brassica tournefortii</i> Gouan	Brassicaceae	5.0
Bluebell	<i>Wahlenbergia</i> spp.	Campanulaceae	3.5
Atriplex spp	<i>Atriplex</i> spp.	Chenopodaceae	0.3
Australian Bindweed	<i>Convolvulus erubescens</i> Sims	Convolvulaceae	0.1
Convolvulus	<i>Convolvulus arvensis</i> L.	Convolvulaceae	1.6
Melon	<i>Citrullus</i> spp.	Cucurbitaceae	0.7
Fumitory	<i>Fumaria</i> spp.	Fumariaceae	0.3
Erodium	<i>Erodium</i> spp.	Geraniaceae	0.6
Geranium	<i>Geranium</i> spp.	Geraniaceae	0.1
Toad rush	<i>Juncus bufonius</i> L.	Juncaceae	4.4

Common name	Genus species	Family	% of fields
Horehound	<i>Marrubium vulgare</i> L.	Lamiaceae	0.1
Loosestrife, Lesser	<i>Lythrum hyssopifolia</i> L.	Lythraceae	1.9
Mallow, Small flowered	<i>Malva parviflora</i> L.	Malvaceae	4.7
Poppy, Opium	<i>Papaver somniferum</i> L.	Paperveraceae}	1.5
Poppy, Rough	<i>Papaver hybridum</i> L. ssp. <i>setigerum</i> (DC.) Thell.	Paperveraceae}	
Plantain	<i>Plantago lanceolata</i> L.	Plantaginaceae	0.2
Phalaris	<i>Phalaris</i> spp.	Poaceae	5.0
Annual ryegrass	<i>Lolium rigidum</i> Gaudin.	Poaceae	68.5
Barley grass	<i>Hordeum glaucum</i> Steud.	Poaceae }	17.0
Barley grass	<i>Hordeum leporinum</i> Link	Poaceae }	
Barnyard grass	<i>Echinochloa</i> spp.	Poaceae	0.9
Brome grass	<i>Bromus diandrus</i> Roth	Poaceae	13.0
Couch	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	0.3
Hairy panic	<i>Panicum effusum</i> R.Br	Poaceae	1.1
Silver grass	<i>Vulpia</i> spp.	Poaceae	11.3
Soft brome	<i>Bromus hordeaceus</i> L.	Poaceae	2.3
Spear grass	<i>Stipa</i> spp.	Poaceae	0.2
Wild oats	<i>Avena fatua</i> L.	Poaceae }	
Wild oats	<i>Avena sterilis</i> subsp. <i>ludoviciana</i> (Durieu) M.Gillet & Magne	Poaceae }	59.9
Windmill grass	<i>Chloris</i> spp.	Poaceae	3.2
Dock	<i>Rumex</i> spp.	Polygonaceae	0.3
Sorrel, sheep	<i>Acetosella vulgaris</i> Fourr. S. lat.	Polygonaceae	0.3
Spiny Emex	<i>Emex australis</i> Steinh.	Polygonaceae	0.5
Wireweed	<i>Polygonum aviculare</i> L.	Polygonaceae	15.4
Nightshade spp	<i>Solanum</i> spp.	Solanaceae	2.3
Caltrop	<i>Tribulus terrestris</i> L.	Zygophyllaceae	0.3