

Aurora Farm Weed Management Plan

- Priority:
1. Isolated Weeds of National Significance, Declared Weeds, Agricultural Weeds, Toxic Weeds
 2. Infestations Weeds of National Significance, Declared Weeds, Agricultural Weeds, Toxic Weeds
 3. Contain Weeds of National Significance, Declared Weeds, and Agricultural Weeds that are not likely to spread or are not economical to tackle.
 4. Monitor Weeds of National Significance, Declared Weeds, Agricultural Weeds that have been previously treated or do not require treatment. Control as opportunities present.

Distribution:

Isolated – A few plants in positions not apparently linked
 Scattered – Linked communities of isolate plants
 Dense – Thickets of plants

Common Name	Status	Management Considerations	Priority	Location & Distribution	Treatment	Results
Dock	Agricultural Weed	<ul style="list-style-type: none"> - Deep tap root - Spreads via seed and rhizome regrowth - Minor grazing value - Seeds in February - Seed viability??? - Prefers moist 	4	Paddock 1 – Scattered Paddock 2 – Isolated Paddock 3 – Not observed Paddock 4 – Not observed Paddock 5 – Not	Hand pull, dig out, spot spray 2015 – Paddock 1 – Lightly grazed and sections hand dug Paddock 2 – Grazed Paddock 7 – Grazed Paddock 8 – Grazed Paddock 9 – Grazed Paddock 10 – Grazed	Paddock 1 – Grazed areas returned, hand dug areas remained clear, new areas emerged along water courses Paddock 2 – reduced number of plants returned Paddock 7 – reduced number of plants returned

		areas		<p>observed Paddock 6 – Not observed</p> <p>observed Paddock 7 – Scattered</p> <p>Paddock 8 – Scattered</p> <p>Paddock 9 – Scattered</p> <p>Paddock 10 - Scattered</p> <p>Paddock 11 – Scattered</p> <p>Paddock 12 – Scattered</p> <p>Paddock 13 – Not Observed</p> <p>Paddock 14 – Not Observed</p>	<p>Paddock 11 – Grazed</p> <p>Paddock 12 – Hand dug, tilled</p> <p>2016 Paddock 1 – Hand dig & graze. Remove seed heads.</p> <p>Paddocks 2 – 11 graze, Remove seed heads.</p> <p>Paddock 12 - Till</p>	<p>Paddock 8 – reduced number of plants returned</p> <p>Paddock 9 – reduced number of plants returned</p> <p>Paddock 10 - reduced number of plants returned</p> <p>Paddock 11 – reduced number of plants returned</p> <p>Paddock 12 – mature plants removed</p> <p>2016 New growth plants emerging in lesser numbers in areas that have been grazed</p>
Spanish Heath	Declared Weed	<ul style="list-style-type: none"> - Flowers June – Sept - Dispersal via wind, water, animals, machinery - Seed viability 4 years - Fire hazard 	1 Essential to not allow it to become established	<p>Paddocks 5 – Isolated</p> <p>Paddock 13 – Dense around dam banks</p>	<p>2016 – Cut and Paint isolated weeds in paddock 5. Hand pulled seedlings. Monitor paddock 13.</p> <p>2017 – Monitor, pull seedlings.</p>	<p>2016 – Successful, limited seedling re-emergence. Maintain surveillance.</p> <p>2017 – Remove all seedlings.</p>

Californian Thistle	Declared Weed	<ul style="list-style-type: none"> - Prickly herb to 1.5m tall, leaves with irregular spiny edges. Extensive rhizomatous perennial root system - Flowers in groups of 1-5 at stem tips. 2.5cm long and wide pinkish-purple flower heads - Seeds small and brown attached to feathery structure (wind blown) - Dispersal via root system, root fragments in soil. A little by seed 	2	<p>Paddock 1 – Isolated Paddock 2 – Scattered Paddock 3 – Scattered Paddock 4 – Scattered Paddock 5 – Scattered Paddock 6 – Scattered Paddock 7 – Scattered Paddock 8 – Scattered Paddock 9 – Scattered Paddock 10 – Scattered Paddock 11 – Scattered Paddock 12 – Scattered Paddock 13 Scattered Paddock 14 – Scattered</p>	<p>Dig. Hand chip to reduce vigour and prevent seeding. Graze. Spot application of herbicides</p> <p>2015 – Dug, chipped and grazed paddocks 1, 7, 8, 9, 10 and 11</p> <p>2016 – January. Spot sprayed, chipped paddocks 1, 7, 8, 9, 10 and 11</p> <p>2016 Spring – chip and graze paddocks 2, 3, 7, 8, 9, 10 and 11</p> <p>2016 Summer – spot spray</p>	<p>2015 – reduced numbers of thistles in the paddocks</p> <p>2016 – spraying reduced number of thistles.</p> <p>2016 Spring. Weather conditions and rhizome regrowth occurred but at a lesser concentration than previous years</p>
Slender Thistle	Declared Weed	<ul style="list-style-type: none"> - Upright herb to 1m with spiny winged stems. 5- 	2		<p>Dig out smaller areas. Mechanical removal, cultivation, pasture management and</p>	<p>2015 – reduced numbers of thistles in the paddocks</p>

		<p>20cm long leaves alternate with spine tipped teeth or lobes, may appear woolly</p> <ul style="list-style-type: none"> - Flower heads pink or purple in clusters of 2-4 - Seeds small and shiny attached to feathery structure (wind blown) - Dispersal via wind, water, animals, contaminated soil, machinery 			<p>herbicides for larger areas</p> <p>2015 – Dug, chipped and grazed paddocks 1, 7, 8, 9, 10 and 11</p> <p>2016 – January. Spot sprayed, chipped paddocks 1, 7, 8, 9, 10 and 11</p> <p>2016 Spring – chip and graze paddocks 2, 3, 7, 8, 9, 10 and 11</p> <p>2016 Summer – spot spray</p>	<p>2016 – spraying reduced number of thistles.</p> <p>2016 Spring. Weather conditions and rhizome regrowth occurred but at a lesser concentration than previous years</p>
Capeweed	Agricultural Weed	<ul style="list-style-type: none"> - Usually a flat rosette but may be more upright - Deeply dissected leaves. Abundant in overgrazed 	2	<p>Paddock 12 – Market Garden</p> <p>Some escapees into Paddocks 9, 10, 11</p>	<p>Introduced via mulch from the Midlands for the market garden (Paddock 12)</p> <p>2016 – hand pulling plants. Grazing escaped plants in adjoining paddocks</p>	<p>2016 – Contained to the market garden. Grazing escaped plants prevented spread. Hand pulling has prevented increase in plant numbers, not yet eradicated.</p>

		<p>paddocks</p> <ul style="list-style-type: none"> - Flowers in Spring. Yellow daisy flowers with black centres - Seeds produced in summer - Dispersal via wind, mowing, garden waste and soil 			<p>2016 Spring – hand pull</p> <p>2017 Summer – remove flower heads, pull plants</p>	
Cumbungi	Environmental Weed	<ul style="list-style-type: none"> - Rigid reed to 3m with flat leaves and round stem - Flowers during summer - Dispersal via rhizomes. Seeds via wind and water - Clogs water ways 	3	Paddock 1 – present in ponds	<ul style="list-style-type: none"> - Cut stems >15 cm below water level. Hand pull and remove rhizome <p>2015 – Hand pulled</p> <p>2016 – Hand pulled</p> <p>2017 – Hand pull and remove seed heads</p>	<p>2015 – successful, decreased numbers of reeds but kept sufficient to provide habitat for fish</p> <p>2016 – successful, reduced numbers of emergent growth sufficient for fish habitat.</p>
Ox-Eye Daisy	Agricultural Weed	<ul style="list-style-type: none"> - Flowers Spring-Autumn, white daisy with 	4	Paddock 3 - isolated	<ul style="list-style-type: none"> - Hand pull, dig out, spot spray <p>2015 – grazed</p>	<p>2015 – grazed, appeared to contain.</p> <p>2016 – awaiting regrowth to assess</p>

		<ul style="list-style-type: none"> - yellow centres - Dispersal via stem fragments and seeds 			2016 – monitor, graze	reduction or increase <ul style="list-style-type: none"> - Graze - Hand pull out lying plants
Blackberry	WONS, Declared Weed	<ul style="list-style-type: none"> - Flowers Nov-Feb - Fruits late summer-autumn - Dispersal via fruits eaten by animals and birds - Rhizome growth - Scrambling plant with hooked prickles forming dense thickets 	2	Paddock 1 – Isolated Paddock 2 – Isolated Paddock 3 – Scattered and dense thickets Paddock 4 – Scattered and dense thickets Paddock 5 – Scattered and dense thickets Paddock 6 – Scattered and dense thickets Paddock 7 – Isolated Paddock 8 – Isolated Paddock 9 – Isolated Paddock 10	<ul style="list-style-type: none"> - Dig out small plants and remove all roots and stems - Large infestations – herbicides, fire, grazing, machinery <p>2015 – Paddock 1 All plants removed by digging.</p> <p>Paddocks 7, 8, 9, 10, 11 plants contained and reduced by grazing</p> <p>2016 January – Paddock 1. Any emergent plants removed.</p> <p>Paddocks 7, 8, 9, 10, 11, 13 plants spot sprayed</p>	<p>2015 - Paddock 1 successfully removed, new emergent plants continue grow</p> <p>Paddocks 7, 8, 9, 10 and 11 significantly reduced. Some bushes left to provide shelter for sheep</p> <p>2016 – Paddock 1. Vigilance continues!</p> <p>Paddocks 7, 8, 9, 10 and 11 remaining bushes reduced further. Kept for shelter. No new plants found</p> <p>Paddock 2 – Huge effort to remove blackberries from around the house and sheds. Found a substantial chook shed</p>

				<ul style="list-style-type: none"> - Isolated Paddock 11 - Isolated Paddock 12 - None Paddock 13 - Dense thickets Paddock 14 - Isolated and dense thickets along road and creek 	<p>Paddock 2 and neighbours plants grazed, slashed, hand pulled, sprayed and burnt.</p> <p>Spring – Hand dig all plants in paddock 1.</p> <p>Paddock 2 Dig, slash, burn, spot spray and graze (sheep, pigs and chickens)</p> <p>Paddocks 3, 4, 5, 6 slash, burn, spot spray and graze as opportunity presents</p> <p>Paddocks 7, 8, 9, 10 and 11 Graze, spot spray, dig small plants</p> <p>Paddocks 13 and 14 spot spray outer plants and out lying plants to contain</p>	<p>under one thicket. Plants hand slashed, spot sprayed stems and burnt off once dried. New growth regrazed. Regrowth contained.</p> <p>Paddocks 3, 4, 5, and 6. Huge job, dense thickets</p> <p>Paddock 13 spot sprayed plants on dam wall. Effective barrier control. Without grazing spring growth will return</p> <p>Paddock 14 – Not tackled.</p>
Canary Broom	Declared Weed	<ul style="list-style-type: none"> - Flowers late winter-spring - Dispersal via water, machinery, 	3	<ul style="list-style-type: none"> Paddock 2 – isolated small plants Paddock 3 – scattered 	<p>2016</p> <p>Paddock 2 – Graze</p> <p>Paddock 3 - Graze and cut flowering stems</p>	2016 – Too early to assess results

		garden waste		<p>small plants Paddock 4- scattered small and medium plants Paddock 5- scattered small plants Paddock 6- scattered small plants Paddock 14- scattered small plants</p>	<p>Paddock 4- Graze and cut flowering stems. Hand pull medium plants Paddock 5- Graze and cut flowering stems Paddock 6- Graze and cut flowering stems Paddock 14- scattered – Grazed</p> <p>2017 Reassess distribution and control methods and success</p>	
English Broom	Declared Weed	<ul style="list-style-type: none"> - Flowers Spring-summer - Fruit and seeds Jan-March - Dispersal via exploding seed pods, insects, machinery, animals, water, garden waste and soil - Seed Viability??? 	<p>1</p> <p>Essential to not allow it to become established</p>	<p>Paddock 1 – isolated plants</p>	<p>2016 – Hand pulled and dug. Solarised (poorly) bush</p> <p>2017 - Monitor</p>	<p>2016 – Successful, no re-emergence</p>

Gorse	WONS, Declared Weed	<ul style="list-style-type: none"> - Dense, spiny shrub with grooved stem and spines - Flowers July-October with golden, fragrant pea-flowers - Dispersal via exploding pods, ants, vehicles, animals, birds, water and soil 	1 Essential to not allow it to become established	Not observed	<p>Dig out small plants. Cut and paint. Foliar spray large infestations. Do not burn.</p> <p>2016 – Surveillance. Immediately treat any discoveries</p> <p>2017– Surveillance. Immediately treat any discoveries</p>	2016 – None observed
Briar Rose (Sweet Briar)	Environmental Weed	<ul style="list-style-type: none"> - Erect deciduous shrub to 3m with thorny stems, prickly leaves and fragrant flowers - Rosehips high in vitamin C - Flowers late winter to spring. Large pink flowers with five petals 	3	<p>Paddock 1 – 2 isolated plants</p> <p>Paddock 2 – isolated</p> <p>Paddock 3 – scattered</p> <p>Paddock 4 – scattered</p> <p>Paddock 5 – Scattered</p> <p>Paddock 6 Scattered</p> <p>Paddock 11 - scattered</p>	<p>Hand pull small plants. Cut and paint large plants. Treat, bag and dispose of all stems.</p> <p>2015 – Hand pulled paddock 1</p> <p>No other paddocks treated</p> <p>2016 – Dug out paddock 1</p> <p>Remove out lying plants in other paddocks</p>	<p>2015 – Unsuccessful, plants returned.</p> <p>2016 – Successful, plants did not return in paddock 1.</p> <p>Other paddocks treated ad hoc</p>

		<ul style="list-style-type: none"> - Red egg shaped hip contains numerous seeds - Dispersal via seeds and root/crown fragments, spread by water, birds, animals, dumped waste. Also suckers 				
Hawthorn	Environmental Weed	<ul style="list-style-type: none"> - Deciduous, thorny shrub to 10m with small lobed leaves - Flowers October-December. Fragrant white/pink flowers in dense clusters - Red berries with yellow flesh and one hard seed in summer 	4	<p>Paddock 3 – isolated. One bush</p> <p>Provides shelter for sheep</p>	<p>Hand pull or dig out small plants. Cut and paint. Treat all stems</p> <p>2015 – Monitor 2016 – Monitor 2017- Monitor</p>	No new plants

		<ul style="list-style-type: none">- Dispersal via seeds spread by birds, animals, machinery, garden waste and mud. Also suckers				
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