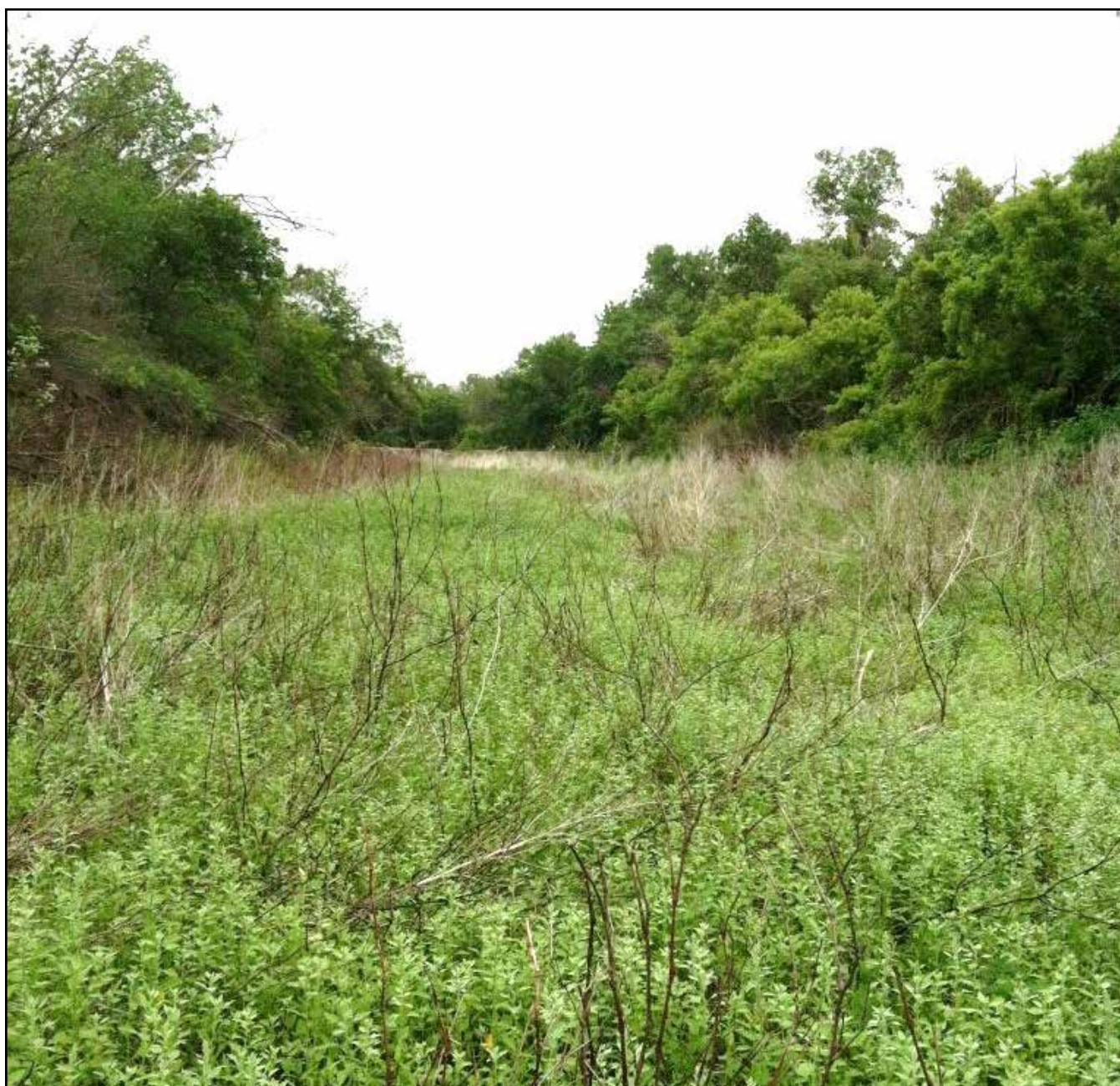




Fort Larned National Historic Site

2014 Exotic Plant Monitoring Data Summary



ON THE COVER

View of the back 40 area at Lyndon B. Johnson NHP. NPS Photo.

Fort Larned National Historic Site

2014 Exotic Plant Monitoring Data Summary

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Introduction

This report contains a data summary of results from exotic monitoring conducted by SOPN from 2011 through 2014 at Fort Larned National Historic Site (FOLS). Data summaries are used to impart current monitoring data until enough years of data have been collected to facilitate trend analysis. A more detailed synthesis report is scheduled to be produced in 2015.

Exotic Monitoring Results

Exotic plant monitoring followed the protocol Multi-Network Exotic Plant Monitoring Protocol and Standard Operating Procedures (Folts-Zettner et al. 2013). Methodology requires a series of discrete 50-meter blocks along designated vectors chosen for high-probability of introduction. Exotic species detected within each block are assigned densities, and their proximity to the vector itself is divided into various Distance Classes (Figure 1).

Table 1 contains a listing of all the exotic species, along with their species codes and attributes, detected during exotic monitoring at FOLS from 2011 to 2014.

Monitoring occurred June 11-12, 2014 and included the east, south and west boundaries (Figure 2). Previous monitoring has always occurred in early June. It should be noted that 2010 was a year of above average precipitation, followed by consecutive years of extreme to severe drought, including 2014. Data summarized in this report compares the results of 2014 monitoring to that of 2011.

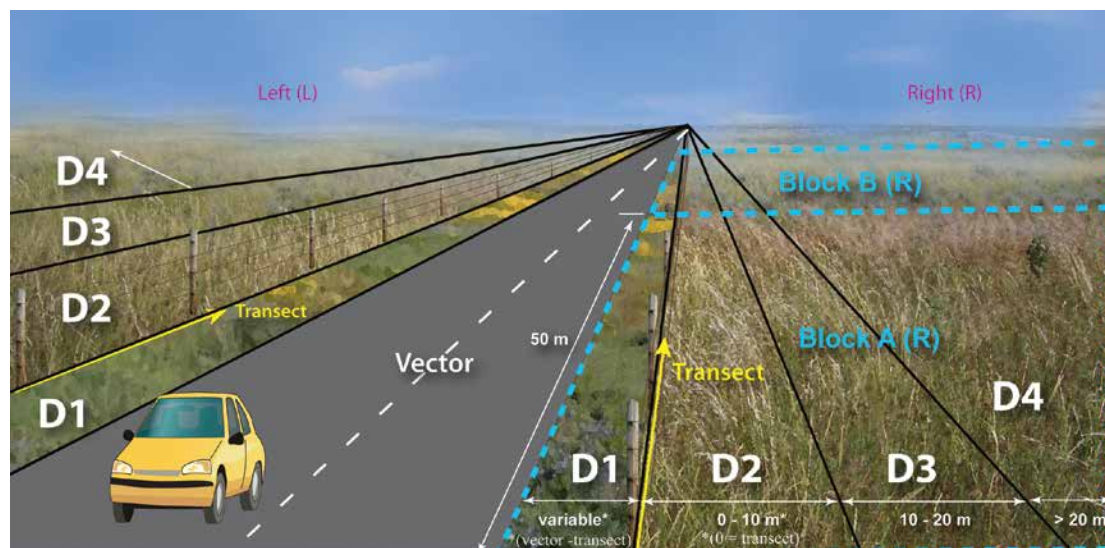


Figure 1. Layout of Vector Blocks and Distance Classes along a vector.

Table 1. List of exotic plant species detected during exotic monitoring in 2011 - 2014 at FOLS.

Species Code	LifeForm	Scientific Name	Common Name	Primary Duration
ACHMIL	Forb	<i>Achillea millefolium</i>	yarrow	Perennial
AEGCYL	Grass	<i>Aegilops cylindrica</i>	jointed goat grass	Annual
AMARET	Forb	<i>Amaranthus retroflexus</i>	redroot pigweed	Annual
ASPOFF	Forb	<i>Asparagus officinalis</i>	garden asparagus	Perennial
BROINE	Grass	<i>Bromus inermis</i>	smooth brome	Perennial
BROJAP	Grass	<i>Bromus japonicus</i>	Japanese brome	Annual
BROTEC	Grass	<i>Bromus tectorum</i>	cheatgrass	Annual
CANSAT	Forb	<i>Cannabis sativa</i>	marijuana	Annual
CAPBUR	Forb	<i>Capsella bursa-pastoris</i>	shepard's purse	Annual
CHEALB	Forb	<i>Chenopodium album</i>	common lambsquarters	Annual
CIRVUL	Forb	<i>Cirsium vulgare</i>	bull thistle	Biennial
CONARV	Forb	<i>Convolvulus arvensis</i>	field bindweed	Perennial
CONMAC	Forb	<i>Conium maculatum</i>	poison hemlock	Biennial
CYNDAC	Grass	<i>Cynodon dactylon</i>	Bermudagrass	Perennial
DESSOP	Forb	<i>Descurainia sophia</i>	flixweed	Annual
KOCSCO	Forb	<i>Kochia scoparia</i>	kochia	Annual
LACSER	Forb	<i>Lactuca serriola</i>	prickly lettuce	Annual
LAMAMP	Forb	<i>Lamium amplexicaule</i>	henbit	Annual/Biennial
LOLPER	Grass	<i>Lolium perenne</i>	perennial ryegrass	Annual/Perennial
MEDLUP	Forb	<i>Medicago lupulina</i>	black medic clover	Annual/Perennial
MEDSAT	Forb	<i>Medicago sativa</i>	alfalfa	Annual/Perennial
MELOFF	Forb	<i>Melilotus officinalis</i>	yellow sweetclover	Annual
POAPRA	Grass	<i>Poa pratensis</i>	Kentucky bluegrass	Perennial
POLARE	Forb	<i>Polygonum arenastrum</i>	prostrate knotweed	Annual/Perennial
RUMCRI	Forb	<i>Rumex crispus</i>	curley dock	Perennial
RUMPAT	Forb	<i>Rumex patientia</i>	patience dock	Perennial
SALTRA	Forb	<i>Salsola tragus</i>	prickly Russian thistle	Annual
SETVIR	Grass	<i>Setaria viridis</i>	green bristlegrass	Annual
SORHAL	Grass	<i>Sorghum halepense</i>	Johnsongrass	Perennial
TAROFF	Forb	<i>Taraxacum officinale</i>	dandelion	Perennial
THLARV	Forb	<i>Thlaspi arvense</i>	field pennycress	Annual
TRADUB	Forb	<i>Tragopogon dubius</i>	western salsify	Annual
TRIAES	Grass	<i>Triticum aestivum</i>	wheat	Annual
TRITER	Forb	<i>Tribulus terrestris</i>	puncturevine	Annual
ULMPUM	Tree	<i>Ulmus pumila</i>	Siberian elm	Perennial

Fort Larned NHS Exotics Sampling
Panel 3 - 6/11 - 6/12/2014

Legend

Transect Name	Surveyed Side
Boundary - NW	Left
Boundary - S	Right
West Road	

Legend

	FOLS Boundary
--	---------------

0 150 300 450 Meters
0 500 1,000 1,500 Feet

N

Areas Surveyed

Figure 2. Numbered vector blocks monitored at FOLS in 2011 and 2014.

Table 2 presents all exotic species detected during exotic monitoring in both years as well as the number and percentage of vector blocks (N=115) in which these species were found. The effect of drought is easily seen.

Table 2. Number and percentage comparison of unit detections of exotic species found in repeated monitoring of vector blocks and permanent transects at FOLS.

Scientific Name	Common Name	2011		2014	
		Primary Blocks (N=88)		Primary Blocks (N=115)	
		Total	% Blocks	Total	% Blocks
<i>Achillea millefolium</i>	yarrow	-	-	3	2.61%
<i>Aegilops cylindrica</i>	jointed goat grass	-	-	19	16.52%
<i>Amaranthus retroflexus</i>	redroot pigweed	-	-	28	24.35%
<i>Asparagus officinalis</i>	garden asparagus	-	-	1	0.87%
<i>Bromus inermis</i>	smooth brome	72	81.82%	109	94.78%
<i>Bromus japonicus</i>	Japanese brome	-	-	37	32.17%
<i>Bromus tectorum</i>	cheatgrass	46	52.27%	63	54.78%
<i>Cannabis sativa</i>	marijuana	-	-	1	0.87%
<i>Capsella bursa-pastoris</i>	shepard's purse	-	-	7	6.09%
<i>Chenopodium album</i>	common lambsquarters	19	21.59%	26	22.61%
<i>Cirsium vulgare</i>	bull thistle	-	-	3	2.61%
<i>Convolvulus arvensis</i>	field bindweed	61	69.32%	75	65.22%
<i>Conium maculatum</i>	poison hemlock	1	1.14%	3	2.61%
<i>Cynodon dactylon</i>	Bermudagrass	2	2.27%	8	6.96%
<i>Descurainia sophia</i>	flixweed	-	-	39	33.91%
<i>Kochia scoparia</i>	kochia	35	39.77%	85	73.91%
<i>Lactuca serriola</i>	prickly lettuce	-	-	32	27.83%
<i>Lamium amplexicaule</i>	henbit	2	2.27%	7	6.09%
<i>Lolium perenne</i>	perennial ryegrass	-	-	14	12.17%
<i>Medicago lupulina</i>	black medic clover	-	-	1	0.87%
<i>Medicago sativa</i>	alfalfa	5	5.68%	16	13.91%
<i>Melilotus officinalis</i>	yellow sweetclover	21	23.86%	46	40.00%
<i>Poa pratensis</i>	Kentucky bluegrass	-	-	10	8.70%
<i>Polygonum arenastrum</i>	prostrate knotweed	-	-	19	16.52%
<i>Rumex crispus</i>	curley dock	-	-	5	4.35%
<i>Rumex patientia</i>	patience dock	33	37.50%	39	33.91%
<i>Salsola tragus</i>	prickly Russian thistle	-	-	3	2.61%
<i>Setaria viridis</i>	green bristlegrass	12	13.64%	-	-
<i>Sorghum halepense</i>	Johnsongrass	4	4.55%	2	1.74%
<i>Taraxacum officinale</i>	dandelion	6	6.82%	16	13.91%
<i>Thlaspi arvense</i>	field pennycress	-	-	1	0.87%
<i>Tragopogon dubius</i>	western salsify	19	21.59%	31	26.96%
<i>Triticum aestivum</i>	wheat	-	-	16	13.91%
<i>Tribulus terrestris</i>	puncturevine	2	2.27%	4	3.48%
<i>Ulmus pumila</i>	Siberian elm	-	-	3	2.61%

The density of a detection of any given exotic species informs us of the invasion stage of that area. A Density Code of 1 will point to either a new introduction in an area or a lack of suitable resources for that species to establish and spread. Conversely, a Density Code of 4 denotes a matrix of the exotic species that has successfully colonized the site and pushed out all native species. Table 3 is a comparison of the number of blocks containing that density from 2011 to 2014 in two Distance Classes. Distance Class 1 is from immediately along the vector to 2 meters into the landscape or the depth of the mowed verge (whichever is greater). Distance Class 2 is a constant 10 meters into the landscape beginning at the interior edge of Distance Class 1. This minimum depth of 12 meters will give the resource manager an idea of the ability of a given exotic species to invade into the interior of a landscape.

Table 3. A comparison of the number of blocks containing a given density in 2011 through 2014 in two Distance Classes.

Species Code	Scientific Name	Common Name	Density Code	Distance Class 1		Distance Class 2	
				2011	2014	2011	2014
ACHMIL	<i>Achillea millefolium</i>	yarrow	1				2
AEGCYL	<i>Aegilops cylindrica</i>	jointed goat grass	1		1		
AEGCYL	<i>Aegilops cylindrica</i>	jointed goat grass	2		18		10
AMARET	<i>Amaranthus retroflexus</i>	redroot pigweed	1		4		2
			2		22		5
BROINE	<i>Bromus inermis</i>	smooth brome	1		4		
			2	15	36	15	32
			3	12	26	12	27
			4	39	24	42	44
BROJAP	<i>Bromus japonicus</i>	Japanese brome	1		3		
			2		33		26
			3		1		1
BROTEC	<i>Bromus tectorum</i>	cheatgrass	.	1		1	
			1		2		1
			2	31	46	33	44
			3	10	3	6	1
CANSAT	<i>Cannabis sativa</i>	marijuana	2		1		1
CAPBUR	<i>Capsella bursa-pastoris</i>	shepard's purse	2		7		
CHEALB	<i>Chenopodium album</i>	common lambsquarters	1	2	4	2	7
			2	11	10	12	12
			3	1			1
CIRVUL	<i>Cirsium vulgare</i>	bull thistle	1				3
CONARV	<i>Convolvulus arvensis</i>	field bindweed	.	1		1	
			1	1	2	1	1
			2	39	63	35	58
			3	5	1	12	
CONMAC	<i>Conium maculatum</i>	poison hemlock	1				1
			3			1	
CYNDAC	<i>Cynodon dactylon</i>	Bermudagrass	1		1		
			2	2	7	2	2
DESSOP	<i>Descurainia sophia</i>	flixweed	1		11		2
			2		19		33

Density Code Key: 1 = one to five individual plants; 2 = scattered patches; 3 = evenly distributed patches; 4 = matrix; X = non-detect.

Table 6. A comparison of the number of blocks containing a given density in 2011 and 2014 in two Distance Classes (continued).

Species Code	Scientific Name	Common Name	Density Code	Distance Class 1		Distance Class 2	
				2011	2014	2011	2014
KOCSO	<i>Kochia scoparia</i>	kochia	.	1			
			1		8		1
			2	29	70	23	49
			3	4		2	
LACSER	<i>Lactuca serriola</i>	prickly lettuce	1		17		8
			2		10		12
LAMAMP	<i>Lamium amplexicaule</i>	henbit	1	1	3	1	
			2		4		
LOLPER	<i>Lolium perenne</i>	perennial ryegrass	2		11		13
			3		2		1
MEDLUP	<i>Medicago lupulina</i>	black medic clover	2				1
MEDSAT	<i>Medicago sativa</i>	alfalfa	1	3	3		
			2	2	13		
MELOFF	<i>Melilotus officinalis</i>	yellow sweetclover	.	1		1	
			1	1	8	5	12
			2	9	10	10	20
			3			1	1
POAPRA	<i>Poa pratensis</i>	Kentucky bluegrass	1				1
POAPRA	<i>Poa pratensis</i>	Kentucky bluegrass	2		7		7
POLARE	<i>Polygonum arenastrum</i>	prostrate knotweed	1		2		1
			2		15		9
RUMCRI	<i>Rumex crispus</i>	curley dock	1		2		2
RUMCRI	<i>Rumex crispus</i>	curley dock	2		1		1
RUMPAT	<i>Rumex patientia</i>	patience dock	1	5	7	6	9
			2	15	13	20	21
			3			1	
SALTRA	<i>Salsola tragus</i>	prickly Russian thistle	1		3		1
			2				1
SETVIR	<i>Setaria viridis</i>	green bristlegrass	2	10		7	
			3	1		1	
			4	1		1	
SORHAL	<i>Sorghum halepense</i>	Johnsongrass	1	4		2	2
			2		1		
TAROFF	<i>Taraxacum officinale</i>	dandelion	1	1	9		2
			2	5	6	4	4
THLARV	<i>Thlaspi arvense</i>	field pennycress	2		1		1
TRADUB	<i>Tragopogon dubius</i>	western salsify	.	1		1	
			1	10	13	9	10
			2	4	3	5	9
TRIAES	<i>Triticum aestivum</i>	wheat	2		11		13
			3		2		
TRITER	<i>Tribulus terrestris</i>	puncturevine	1		1		1
			2	2	3		
ULMPUM	<i>Ulmus pumila</i>	Siberian elm	1				1

Density Code Key: 1 = one to five individual plants; 2 = scattered patches; 3 = evenly distributed patches; 4 = matrix; X = non-detect.

Table 4 is included for the benefit of those resource managers with an active exotic management program. This table lists the specific species found in each vector block and the Density Code of that species in each Distance Class. The comparison of current detections to those from previous years underscores the current drought effect – the more herbaceous species have disappeared, while the drought tolerant exotics (ie: KR bluestem, field bindweed) appear and have increased.

Table 4. Comparison of 2011 vs. 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class.

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
600R	<i>Bromus inermis</i>	smooth brome	3	4	4	4	4	4	4	4
600R	<i>Bromus tectorum</i>	cheatgrass	3	3	0	0	0	2	0	0
600R	<i>Convolvulus arvensis</i>	field bindweed	2	3	3	0	2	2	0	0
600R	<i>Lactuca serriola</i>	prickly lettuce					2	0	2	0
600R	<i>Lamium amplexicaule</i>	henbit	0	1	0	0				
600R	<i>Melilotus officinalis</i>	yellow sweetclover	0	0	2	0	1	1	0	0
600R	<i>Rumex patientia</i>	patience dock	0	2	2	0	2	0	2	0
600R	<i>Setaria viridis</i>	green bristlegrass	2	0	0	0				
600R	<i>Sorghum halepense</i>	Johnsongrass	1	1	0	0				
601R	<i>Bromus inermis</i>	smooth brome	3	4	4	4	4	4	4	4
601R	<i>Bromus tectorum</i>	cheatgrass	0	2	0	0				
601R	<i>Convolvulus arvensis</i>	field bindweed	2	3	3	0	2	2	0	0
601R	<i>Melilotus officinalis</i>	yellow sweetclover	0	0	2	0	0	1	0	0
601R	<i>Rumex patientia</i>	patience dock	0	1	0	0	1	0	0	0
601R	<i>Sorghum halepense</i>	Johnsongrass	1	1	0	0				
602R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
602R	<i>Convolvulus arvensis</i>	field bindweed	3	3	0	0	2	2	0	0
602R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	2	0				
602R	<i>Rumex patientia</i>	patience dock	2	2	1	0	2	1	2	0
603R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
603R	<i>Rumex patientia</i>	patience dock	2	2	2	2	2	2	2	0
604R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
604R	<i>Rumex patientia</i>	patience dock	0	1	2	0	1	0	0	0
605R	<i>Bromus inermis</i>	smooth brome	4	4	4	3	3	3	4	4
605R	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	1	0	0
605R	<i>Kochia scoparia</i>	kochia					2	2	0	0
605R	<i>Rumex patientia</i>	patience dock	2	2	0	0	0	2	0	0
606R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	2	2	3	3
606R	<i>Descurainia sophia</i>	flixweed					0	2	0	0
606R	<i>Kochia scoparia</i>	kochia					0	2	0	0
606R	<i>Melilotus officinalis</i>	yellow sweetclover	0	0	2	2				
606R	<i>Poa pratensis</i>	Kentucky bluegrass					1	2	0	0
607R	<i>Bromus inermis</i>	smooth brome	4	3	2	2	3	2	3	3

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
607R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	3	4	1	0	0	0
607R	<i>Poa pratensis</i>	Kentucky bluegrass					2	2	0	0
608R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	2	3	2	3
608R	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
608R	<i>Convolvulus arvensis</i>	field bindweed					2	2	2	0
608R	<i>Melilotus officinalis</i>	yellow sweetclover	2	3	3	0	2	1	0	0
609R	<i>Bromus inermis</i>	smooth brome	3	3	3	3	3	2	3	2
609R	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
609R	<i>Kochia scoparia</i>	kochia					0	1	0	0
609R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	2	0	1	0	0	2
610R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	2	2	2	2
610R	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
610R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0				
610R	<i>Melilotus officinalis</i>	yellow sweetclover	0	2	0	0	1	0	1	0
611R	<i>Bromus inermis</i>	smooth brome	3	3	2	3	2	2	3	2
611R	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
611R	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
611R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	0	1	0	1	0
611R	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
612R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	3	2	3	4
612R	<i>Descurainia sophia</i>	flixweed					0	2	0	0
612R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	3	0	2	0	0	0
613R	<i>Bromus inermis</i>	smooth brome	3	3	3	3	3	3	3	4
613R	<i>Convolvulus arvensis</i>	field bindweed	0	0	2	2				
613R	<i>Descurainia sophia</i>	flixweed					0	2	0	0
613R	<i>Kochia scoparia</i>	kochia					0	2	0	0
613R	<i>Melilotus officinalis</i>	yellow sweetclover					1	0	0	0
613R	<i>Rumex patientia</i>	patience dock					0	2	0	0
613R	<i>Tragopogon dubius</i>	western salsify					0	1	0	0
614R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
614R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0				
614R	<i>Rumex patientia</i>	patience dock	1	0	0	0				
615R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
615R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0				
615R	<i>Rumex patientia</i>	patience dock					0	1	0	0
616R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
616R	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	0	0
616R	<i>Rumex crispus</i>	curley dock					0	2	0	0
616R	<i>Rumex patientia</i>	patience dock	1	0	0	0				
616R	<i>Sorghum halepense</i>	Johnsongrass	1	0	0	0				
617R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
617R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0				

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non–detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
617R	<i>Kochia scoparia</i>	kochia					2	0	0	0
617R	<i>Rumex patientia</i>	patience dock	0	2	0	0	2	0	0	0
618R	<i>Bromus inermis</i>	smooth brome					3	2	3	3
618R	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	2	2
618R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0				
618R	<i>Kochia scoparia</i>	kochia					2	2	0	0
618R	<i>Polygonum arenastrum</i>	prostrate knotweed					2	1	2	0
618R	<i>Setaria viridis</i>	green bristlegrass	2	2	0	0				
618R	<i>Taraxacum officinale</i>	dandelion	2	0	0	0	2	1	2	2
619R	<i>Bromus inermis</i>	smooth brome					2	2	2	2
619R	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	2	2
619R	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
619R	<i>Setaria viridis</i>	green bristlegrass	3	3	3	3				
619R	<i>Taraxacum officinale</i>	dandelion	2	2	0	0	2	2	3	2
620R	<i>Bromus inermis</i>	smooth brome	0	0	0	2	2	2	2	2
620R	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	2	0	0
620R	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
620R	<i>Poa pratensis</i>	Kentucky bluegrass					2	2	0	0
620R	<i>Setaria viridis</i>	green bristlegrass	2	2	2	0				
620R	<i>Taraxacum officinale</i>	dandelion	2	2	0	0	2	2	0	0
621R	<i>Bromus inermis</i>	smooth brome	2	2	2	2	2	2	2	2
621R	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	2	2	2
621R	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
621R	<i>Poa pratensis</i>	Kentucky bluegrass					2	0	0	0
621R	<i>Setaria viridis</i>	green bristlegrass	4	4	4	4				
621R	<i>Taraxacum officinale</i>	dandelion	2	2	0	0	2	2	2	0
622R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	3	4	4
622R	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	0	0
622R	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
623R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	3	2	3	4
623R	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	1	2	2	2	0
624R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
624R	<i>Convolvulus arvensis</i>	field bindweed	3	3	3	0	2	2	0	0
625R	<i>Asparagus officinalis</i>	garden asparagus					0	0	1	1
625R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
625R	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	2	0
625R	<i>Rumex patientia</i>	patience dock	2	2	0	0	2	2	2	0
626R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
626R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0	2	0	2	0
626R	<i>Rumex patientia</i>	patience dock	2	2	2	0	2	2	2	0
627R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
627R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0	2	0	2	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
627R	<i>Rumex patientia</i>	patience dock	2	2	3	0	2	2	0	0
628R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
628R	<i>Convolvulus arvensis</i>	field bindweed	2	3	3	0	2	2	2	0
629R	<i>Bromus inermis</i>	smooth brome	3	3	0	0				
629R	<i>Conium maculatum</i>	poison hemlock	0	3	0	0				
630R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	2	4	4
630R	<i>Bromus tectorum</i>	cheatgrass					0	2	0	0
630R	<i>Convolvulus arvensis</i>	field bindweed					0	2	0	0
630R	<i>Kochia scoparia</i>	kochia					0	2	0	0
630R	<i>Tragopogon dubius</i>	western salsify	1	0	0	0	0	1	0	0
630R	<i>Triticum aestivum</i>	wheat					0	2	0	0
630R	<i>Ulmus pumila</i>	Siberian elm					1	0	0	0
631R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	3	2	4	4
631R	<i>Bromus tectorum</i>	cheatgrass					2	3	0	0
631R	<i>Convolvulus arvensis</i>	field bindweed	0	0	2	0	2	2	0	0
631R	<i>Kochia scoparia</i>	kochia					0	1	0	0
631R	<i>Triticum aestivum</i>	wheat					0	3	0	0
632R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	3	2	4	4
632R	<i>Bromus tectorum</i>	cheatgrass					3	2	0	0
632R	<i>Chenopodium album</i>	common lambsquarters	1	0	0	0	1	0	0	0
632R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	2	2	0	0	0
632R	<i>Kochia scoparia</i>	kochia					1	1	0	0
632R	<i>Rumex patientia</i>	patience dock	0	0	1	0				
632R	<i>Triticum aestivum</i>	wheat					2	3	0	0
633R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
633R	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0	2	2	0	0
634R	<i>Bromus inermis</i>	smooth brome	0	4	4	X	4	4	X	X
634R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
634R	<i>Kochia scoparia</i>	kochia					2	0	X	X
634R	<i>Lactuca serriola</i>	prickly lettuce					2	1	X	X
634R	<i>Tragopogon dubius</i>	western salsify	1	0	0	X				
635R	<i>Bromus inermis</i>	smooth brome	4	4	4	X	4	4	X	X
635R	<i>Bromus tectorum</i>	cheatgrass	3	0	0	X	2	0	X	X
636R	<i>Bromus inermis</i>	smooth brome	4	4	4	X	4	4	X	X
636R	<i>Bromus tectorum</i>	cheatgrass					2	2	X	X
636R	<i>Lactuca serriola</i>	prickly lettuce					0	1	X	X
637R	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	2	4	4
637R	<i>Bromus tectorum</i>	cheatgrass					0	3	0	0
637R	<i>Convolvulus arvensis</i>	field bindweed	1	1	2	0	2	3	0	0
700L	<i>Bromus inermis</i>	smooth brome	4	4	2	2	4	3	0	0
700L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
700L	<i>Bromus tectorum</i>	cheatgrass	0	2	2	0	0	2	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
700L	<i>Chenopodium album</i>	common lambsquarters	2	0	0	0	0	2	0	0
700L	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	2	0	0
700L	<i>Kochia scoparia</i>	kochia					2	2	0	0
700L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	0	0	1	2	2	2
700L	<i>Setaria viridis</i>	green bristlegrass	2	2	0	0				
700L	<i>Tragopogon dubius</i>	western salsify	1	1	0	0				
701L	<i>Bromus inermis</i>	smooth brome	4	4	2	0	4	3	0	0
701L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	2	3	0	0
701L	<i>Chenopodium album</i>	common lambsquarters					2	2	0	0
701L	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0	2	2	0	0
701L	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
701L	<i>Melilotus officinalis</i>	yellow sweetclover					2	2	2	2
701L	<i>Rumex patientia</i>	patience dock	2	2	0	0	2	2	0	0
701L	<i>Setaria viridis</i>	green bristlegrass	2	0	0	0				
701L	<i>Tragopogon dubius</i>	western salsify					0	1	0	0
702L	<i>Bromus inermis</i>	smooth brome	4	4	2	2	3	3	3	0
702L	<i>Bromus japonicus</i>	Japanese brome					0	2	0	0
702L	<i>Bromus tectorum</i>	cheatgrass	2	0	0	0	2	2	0	0
702L	<i>Chenopodium album</i>	common lambsquarters	2	0	0	0	0	2	0	0
702L	<i>Convolvulus arvensis</i>	field bindweed	0	2	2	0	2	2	0	0
702L	<i>Kochia scoparia</i>	kochia					2	2	0	0
702L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	0	0	2	2	3	3
702L	<i>Rumex crispus</i>	curley dock					1	1	0	0
702L	<i>Rumex patientia</i>	patience dock	2	1	0	0	2	0	2	0
702L	<i>Tragopogon dubius</i>	western salsify	1	1	0	0	0	1	0	0
702L	<i>Ulmus pumila</i>	Siberian elm					0	0	0	1
703L	<i>Bromus inermis</i>	smooth brome	3	3	2	0	3	3	2	0
703L	<i>Bromus japonicus</i>	Japanese brome					0	2	0	0
703L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	2	2	0	0
703L	<i>Kochia scoparia</i>	kochia					2	1	2	0
703L	<i>Melilotus officinalis</i>	yellow sweetclover					2	2	3	3
703L	<i>Rumex crispus</i>	curley dock					2	0	0	0
703L	<i>Rumex patientia</i>	patience dock	2	2	0	0	2	2	2	0
703L	<i>Tragopogon dubius</i>	western salsify					0	1	0	0
704L	<i>Bromus inermis</i>	smooth brome	4	4	2	2	2	2	3	2
704L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
704L	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	0	2	0	0
704L	<i>Convolvulus arvensis</i>	field bindweed					0	2	0	0
704L	<i>Kochia scoparia</i>	kochia					0	2	0	0
704L	<i>Poa pratensis</i>	Kentucky bluegrass					2	2	0	0
704L	<i>Rumex crispus</i>	curley dock					0	1	0	0
704L	<i>Rumex patientia</i>	patience dock	2	2	0	0	2	2	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
704L	<i>Tragopogon dubius</i>	western salsify	0	1	0	0				
705L	<i>Amaranthus retroflexus</i>	redroot pigweed					2	2	0	0
705L	<i>Bromus inermis</i>	smooth brome	2	2	2	0	2	2	2	2
705L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
705L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	2	0	0	0
705L	<i>Convolvulus arvensis</i>	field bindweed					2	2	0	0
705L	<i>Descurainia sophia</i>	flixweed					2	2	2	0
705L	<i>Kochia scoparia</i>	kochia					2	2	2	0
705L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
705L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	2	2
705L	<i>Poa pratensis</i>	Kentucky bluegrass					2	2	0	0
705L	<i>Rumex patientia</i>	patience dock	2	2	2	0	2	2	2	0
705L	<i>Thlaspi arvense</i>	field pennycress					2	2	0	0
705L	<i>Tragopogon dubius</i>	western salsify					2	2	0	0
706L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
706L	<i>Bromus inermis</i>	smooth brome	0	0	2	2				
706L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
706L	<i>Bromus tectorum</i>	cheatgrass	2	0	0	0	2	2	0	0
706L	<i>Chenopodium album</i>	common lambsquarters	2	2	2	0	2	2	0	0
706L	<i>Convolvulus arvensis</i>	field bindweed	2	0	0	0	2	2	0	0
706L	<i>Descurainia sophia</i>	flixweed					2	2	2	0
706L	<i>Kochia scoparia</i>	kochia	2	0	0	0	2	2	0	0
706L	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
706L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	3	2
706L	<i>Rumex patientia</i>	patience dock	2	2	0	0	2	2	2	2
706L	<i>Tragopogon dubius</i>	western salsify					0	2	0	0
707L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
707L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
707L	<i>Bromus tectorum</i>	cheatgrass	2	0	0	0	2	2	0	0
707L	<i>Chenopodium album</i>	common lambsquarters	2	0	0	0	2	1	0	0
707L	<i>Descurainia sophia</i>	flixweed					2	2	2	0
707L	<i>Kochia scoparia</i>	kochia	2	0	0	0	2	2	0	0
707L	<i>Lactuca serriola</i>	prickly lettuce					0	2	0	0
707L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	2	2
707L	<i>Rumex patientia</i>	patience dock	2	2	0	0	2	0	2	0
707L	<i>Tragopogon dubius</i>	western salsify					0	1	0	0
708L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
708L	<i>Bromus inermis</i>	smooth brome					2	2	0	0
708L	<i>Bromus japonicus</i>	Japanese brome					0	2	0	0
708L	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	0	2	0	0
708L	<i>Chenopodium album</i>	common lambsquarters	2	2	2	0	2	2	2	0
708L	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	2	0	0

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Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
708L	<i>Descurainia sophia</i>	flixweed					2	2	2	0
708L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	0	0
708L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
708L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	0	1
708L	<i>Rumex patientia</i>	patience dock	0	2	2	0	2	2	2	2
708L	<i>Ulmus pumila</i>	Siberian elm					0	0	0	1
709L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
709L	<i>Bromus inermis</i>	smooth brome	3	3	2	2	4	3	3	3
709L	<i>Bromus japonicus</i>	Japanese brome					0	2	0	0
709L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	2	2	0	0
709L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	2	0
709L	<i>Descurainia sophia</i>	flixweed					2	2	2	0
709L	<i>Kochia scoparia</i>	kochia	2	2	0	0	0	2	2	0
709L	<i>Lamium amplexicaule</i>	henbit					0	2	0	0
709L	<i>Rumex patientia</i>	patience dock					0	1	1	0
709L	<i>Tragopogon dubius</i>	western salsify					0	1	1	0
710L	<i>Bromus inermis</i>	smooth brome	3	3	X	3	3	3	X	3
710L	<i>Bromus japonicus</i>	Japanese brome					0	2	X	0
710L	<i>Bromus tectorum</i>	cheatgrass	3	2	X	2	2	2	X	0
710L	<i>Chenopodium album</i>	common lambsquarters					0	2	X	0
710L	<i>Convolvulus arvensis</i>	field bindweed					2	0	X	0
710L	<i>Descurainia sophia</i>	flixweed					2	2	X	0
710L	<i>Kochia scoparia</i>	kochia	2	2	X	2	2	2	X	0
710L	<i>Lactuca serriola</i>	prickly lettuce					1	1	X	0
710L	<i>Lamium amplexicaule</i>	henbit					0	2	X	0
710L	<i>Rumex patientia</i>	patience dock	0	2	X	0	2	1	X	0
710L	<i>Tragopogon dubius</i>	western salsify	1	1	X	0	0	1	X	0
711L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	X	0
711L	<i>Bromus inermis</i>	smooth brome	3	3	X	0	2	3	0	3
711L	<i>Bromus japonicus</i>	Japanese brome					0	2	X	0
711L	<i>Bromus tectorum</i>	cheatgrass	2	2	X	0	2	2	X	0
711L	<i>Chenopodium album</i>	common lambsquarters					0	2	X	0
711L	<i>Descurainia sophia</i>	flixweed					2	0	2	0
711L	<i>Kochia scoparia</i>	kochia	2	2	X	2	2	2	X	0
711L	<i>Lamium amplexicaule</i>	henbit					0	2	X	0
711L	<i>Rumex patientia</i>	patience dock					1	0	X	0
711L	<i>Tragopogon dubius</i>	western salsify					0	1	X	0
712L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
712L	<i>Bromus inermis</i>	smooth brome	4	4	X	0	3	2	2	2
712L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
712L	<i>Bromus tectorum</i>	cheatgrass	2	0	X	0	2	2	0	0
712L	<i>Convolvulus arvensis</i>	field bindweed	2	2	X	0	2	2	2	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
712L	<i>Descurainia sophia</i>	flixweed					1	2	0	0
712L	<i>Kochia scoparia</i>	kochia	2	2	X	0	2	2	2	0
712L	<i>Lactuca serriola</i>	prickly lettuce					0	2	0	0
712L	<i>Lamium amplexicaule</i>	henbit					0	1	0	0
712L	<i>Rumex patientia</i>	patience dock	0	1	X	0	1	0	0	0
712L	<i>Tragopogon dubius</i>	western salsify	1	1	X	0				
713L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	X	X
713L	<i>Bromus inermis</i>	smooth brome					2	2	X	X
713L	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
713L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	2	2	X	X
713L	<i>Chenopodium album</i>	common lambsquarters					1	1	X	X
713L	<i>Conium maculatum</i>	poison hemlock					1	0	X	X
713L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	X	X
713L	<i>Descurainia sophia</i>	flixweed					2	2	X	X
713L	<i>Kochia scoparia</i>	kochia	3	3	2	0	2	2	X	X
713L	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
713L	<i>Lamium amplexicaule</i>	henbit	1	0	0	0				
713L	<i>Melilotus officinalis</i>	yellow sweetclover					1	0	X	X
713L	<i>Rumex patientia</i>	patience dock					2	0	X	X
713L	<i>Tribulus terrestris</i>	puncturevine					2	2	X	X
714L	<i>Achillea millefolium</i>	yarrow					1	0	0	0
714L	<i>Bromus inermis</i>	smooth brome					2	0	2	0
714L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
714L	<i>Bromus tectorum</i>	cheatgrass					2	0	0	0
714L	<i>Chenopodium album</i>	common lambsquarters	2	2	2	0	1	0	0	0
714L	<i>Convolvulus arvensis</i>	field bindweed	2	3	3	0	2	2	2	2
714L	<i>Descurainia sophia</i>	flixweed					2	2	2	2
714L	<i>Kochia scoparia</i>	kochia	3	3	0	0	2	0	2	0
714L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
714L	<i>Rumex patientia</i>	patience dock					0	0	2	0
714L	<i>Tragopogon dubius</i>	western salsify					0	0	1	0
715L	<i>Bromus inermis</i>	smooth brome	2	2	2	0				
715L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
715L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	0	2	0	0
715L	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	2	2	0
715L	<i>Descurainia sophia</i>	flixweed					2	2	2	2
715L	<i>Kochia scoparia</i>	kochia	2	2	2	0	2	0	2	0
715L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	2	2
715L	<i>Rumex patientia</i>	patience dock					1	0	1	0
715L	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
716L	<i>Achillea millefolium</i>	yarrow					0	0	1	0
716L	<i>Bromus inermis</i>	smooth brome					2	0	2	2

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
716L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
716L	<i>Bromus tectorum</i>	cheatgrass	0	2	0	0				
716L	<i>Chenopodium album</i>	common lambsquarters	2	2	0	0	3	0	0	0
716L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	0	0
716L	<i>Descurainia sophia</i>	flixweed					2	2	2	0
716L	<i>Kochia scoparia</i>	kochia	2	2	0	0				
716L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	0	0	2	0	0	0
716L	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
717L	<i>Bromus inermis</i>	smooth brome					2	2	2	2
717L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
717L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	X				
717L	<i>Chenopodium album</i>	common lambsquarters					2	0	1	0
717L	<i>Descurainia sophia</i>	flixweed					2	2	2	2
717L	<i>Kochia scoparia</i>	kochia	3	2	0	X	2	0	0	0
717L	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	1	0	0	0
717L	<i>Rumex patientia</i>	patience dock					0	0	1	0
718L	<i>Bromus inermis</i>	smooth brome					2	0	2	2
718L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
718L	<i>Bromus tectorum</i>	cheatgrass	2	0	0	0				
718L	<i>Chenopodium album</i>	common lambsquarters	0	2	2	0	2	1	1	0
718L	<i>Convolvulus arvensis</i>	field bindweed	2	3	3	0	2	2	0	0
718L	<i>Descurainia sophia</i>	flixweed					2	2	2	2
718L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	0	0
719L	<i>Bromus inermis</i>	smooth brome					2	0	2	2
719L	<i>Bromus japonicus</i>	Japanese brome					3	3	3	3
719L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0				
719L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	0	2	2	2	0
719L	<i>Descurainia sophia</i>	flixweed					2	2	2	2
719L	<i>Kochia scoparia</i>	kochia	2	2	2	0	2	2	0	0
719L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	2	2
719L	<i>Tragopogon dubius</i>	western salsify					1	1	0	0
720L	<i>Amaranthus retroflexus</i>	redroot pigweed					2	0	0	0
720L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
720L	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	2	0	0	0
720L	<i>Cirsium vulgare</i>	bull thistle					1	0	0	0
720L	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0				
720L	<i>Descurainia sophia</i>	flixweed					2	0	2	2
720L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	0	2	0
720L	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
720L	<i>Tragopogon dubius</i>	western salsify	0	1	0	0	2	0	2	0
721L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
721L	<i>Bromus inermis</i>	smooth brome	2	2	2	0	2	0	2	2

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
721L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	2
721L	<i>Bromus tectorum</i>	cheatgrass	3	2	2	0	2	2	2	0
721L	<i>Chenopodium album</i>	common lambsquarters	3	2	2	0				
721L	<i>Cirsium vulgare</i>	bull thistle					1	0	1	0
721L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	2	0	2	0	0
721L	<i>Descurainia sophia</i>	flixweed					2	1	2	2
721L	<i>Kochia scoparia</i>	kochia	3	2	2	0	2	2	1	0
721L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
721L	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	0	0	0	2	2
721L	<i>Taraxacum officinale</i>	dandelion					0	1	0	0
721L	<i>Tragopogon dubius</i>	western salsify					2	2	2	2
722L	<i>Bromus inermis</i>	smooth brome	0	2	0	0	2	2	2	2
722L	<i>Bromus japonicus</i>	Japanese brome					2	1	2	0
722L	<i>Bromus tectorum</i>	cheatgrass	3	3	3	0	2	2	2	0
722L	<i>Chenopodium album</i>	common lambsquarters	0	2	2	0				
722L	<i>Cirsium vulgare</i>	bull thistle					1	0	0	1
722L	<i>Convolvulus arvensis</i>	field bindweed	3	3	3	3	2	2	2	2
722L	<i>Descurainia sophia</i>	flixweed					2	0	0	0
722L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	0	0
722L	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
722L	<i>Rumex patientia</i>	patience dock	0	2	2	0	1	1	2	2
722L	<i>Tragopogon dubius</i>	western salsify	1	1	0	0	2	0	1	0
723L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
723L	<i>Bromus inermis</i>	smooth brome					0	0	0	2
723L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	2
723L	<i>Bromus tectorum</i>	cheatgrass	3	3	3	2	2	2	2	0
723L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	2	1	2	2	2
723L	<i>Descurainia sophia</i>	flixweed					2	0	2	0
723L	<i>Kochia scoparia</i>	kochia	2	2	2	2	2	2	2	2
723L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
723L	<i>Rumex patientia</i>	patience dock	1	1	0	0	1	0	2	2
723L	<i>Taraxacum officinale</i>	dandelion					0	1	0	0
723L	<i>Tragopogon dubius</i>	western salsify	2	2	0	0	2	0	2	0
724L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	1	0	0
724L	<i>Bromus inermis</i>	smooth brome	0	2	2	0	2	2	2	2
724L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	2
724L	<i>Bromus tectorum</i>	cheatgrass	3	3	2	0				
724L	<i>Chenopodium album</i>	common lambsquarters	2	2	2	0				
724L	<i>Convolvulus arvensis</i>	field bindweed	0	0	3	3				
724L	<i>Descurainia sophia</i>	flixweed					2	1	2	0
724L	<i>Kochia scoparia</i>	kochia					2	2	2	0
724L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
724L	<i>Melilotus officinalis</i>	yellow sweetclover					1	0	1	0
724L	<i>Rumex patientia</i>	patience dock	2	3	3	0	2	0	2	2
724L	<i>Tragopogon dubius</i>	western salsify	0	2	0	0	1	0	0	0
725L	<i>Bromus inermis</i>	smooth brome					0	2	2	2
725L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	2
725L	<i>Bromus tectorum</i>	cheatgrass	3	2	2	2	2	2	0	0
725L	<i>Descurainia sophia</i>	flixweed					2	1	2	0
725L	<i>Kochia scoparia</i>	kochia	0	2	2	0	2	2	0	0
725L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
725L	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	0				
725L	<i>Rumex patientia</i>	patience dock	0	0	3	2	1	0	2	2
725L	<i>Tragopogon dubius</i>	western salsify	2	2	0	0	1	1	0	0
726L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	2
726L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	2	2	0	0
726L	<i>Chenopodium album</i>	common lambsquarters	2	2	0	0				
726L	<i>Convolvulus arvensis</i>	field bindweed	0	0	2	2	0	0	2	2
726L	<i>Descurainia sophia</i>	flixweed					2	1	2	0
726L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	2	0
726L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
726L	<i>Rumex patientia</i>	patience dock	0	2	2	2	2	1	2	2
726L	<i>Sorghum halepense</i>	Johnsongrass	1	0	0	0	1	2	0	0
726L	<i>Taraxacum officinale</i>	dandelion					0	2	0	0
726L	<i>Tragopogon dubius</i>	western salsify	1	1	0	0	2	0	1	0
727L	<i>Amaranthus retroflexus</i>	redroot pigweed					2	2	0	0
727L	<i>Bromus inermis</i>	smooth brome					0	0	2	2
727L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	2
727L	<i>Bromus tectorum</i>	cheatgrass	3	2	2	0	2	2	2	0
727L	<i>Chenopodium album</i>	common lambsquarters	2	2	0	0	1	0	1	0
727L	<i>Convolvulus arvensis</i>	field bindweed					0	0	2	2
727L	<i>Descurainia sophia</i>	flixweed					2	1	2	0
727L	<i>Kochia scoparia</i>	kochia	2	2	2	2	2	2	2	0
727L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
727L	<i>Rumex patientia</i>	patience dock					2	0	2	2
727L	<i>Sorghum halepense</i>	Johnsongrass					1	0	0	0
727L	<i>Tragopogon dubius</i>	western salsify	2	2	0	0	1	0	0	0
728L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
728L	<i>Amaranthus retroflexus</i>	redroot pigweed					2	2	0	0
728L	<i>Bromus inermis</i>	smooth brome	2	2	0	0	0	0	2	2
728L	<i>Bromus tectorum</i>	cheatgrass	3	3	3	0	2	2	2	0
728L	<i>Capsella bursa-pastoris</i>	shepard's purse					0	2	0	0
728L	<i>Chenopodium album</i>	common lambsquarters	2	2	0	0				
728L	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	2	0	0

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Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
728L	<i>Descurainia sophia</i>	flixweed					2	0	0	0
728L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	2	2
728L	<i>Melilotus officinalis</i>	yellow sweetclover					2	0	2	2
728L	<i>Poa pratensis</i>	Kentucky bluegrass					2	0	0	0
728L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
728L	<i>Rumex patientia</i>	patience dock	0	2	2	0	2	0	2	0
728L	<i>Tribulus terrestris</i>	puncturevine					0	2	0	0
729L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	2	0	0	0
729L	<i>Chenopodium album</i>	common lambsquarters	0	2	2	0	2	0	0	0
729L	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0				
729L	<i>Descurainia sophia</i>	flixweed					2	0	2	0
729L	<i>Kochia scoparia</i>	kochia	2	2	2	0	0	2	0	0
729L	<i>Medicago sativa</i>	alfalfa					0	1	0	0
729L	<i>Melilotus officinalis</i>	yellow sweetclover	0	2	0	0	2	0	2	2
729L	<i>Poa pratensis</i>	Kentucky bluegrass					2	0	0	0
729L	<i>Setaria viridis</i>	green bristlegrass	2	0	0	0				
729L	<i>Tragopogon dubius</i>	western salsify	0	2	0	0				
730L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
730L	<i>Bromus inermis</i>	smooth brome	2	2	0	0	0	0	3	2
730L	<i>Bromus tectorum</i>	cheatgrass	2	2	3	0	1	0	0	0
730L	<i>Capsella bursa-pastoris</i>	shepard's purse					0	2	0	0
730L	<i>Chenopodium album</i>	common lambsquarters	1	0	0	0	2	0	0	0
730L	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	0	2	0	0
730L	<i>Descurainia sophia</i>	flixweed					0	0	2	0
730L	<i>Kochia scoparia</i>	kochia	2	0	0	0	0	2	0	0
730L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	2	0
730L	<i>Poa pratensis</i>	Kentucky bluegrass					0	2	0	0
730L	<i>Rumex patientia</i>	patience dock	0	2	2	0				
730L	<i>Setaria viridis</i>	green bristlegrass	2	2	0	0				
730L	<i>Taraxacum officinale</i>	dandelion					1	1	0	0
730L	<i>Tragopogon dubius</i>	western salsify	1	1	0	0				
731L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
731L	<i>Bromus inermis</i>	smooth brome	2	2	0	0	2	2	2	2
731L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0	0	2	0	0
731L	<i>Capsella bursa-pastoris</i>	shepard's purse					0	2	0	0
731L	<i>Convolvulus arvensis</i>	field bindweed	2	0	0	0	0	2	0	0
731L	<i>Descurainia sophia</i>	flixweed					2	0	2	0
731L	<i>Kochia scoparia</i>	kochia	2	0	0	0	0	1	0	0
731L	<i>Medicago sativa</i>	alfalfa					0	1	0	0
731L	<i>Melilotus officinalis</i>	yellow sweetclover					0	0	2	2
731L	<i>Poa pratensis</i>	Kentucky bluegrass					0	2	0	0
731L	<i>Taraxacum officinale</i>	dandelion					0	1	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

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Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
731L	<i>Tragopogon dubius</i>	western salsify	2	0	0	0				
732L	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
732L	<i>Bromus inermis</i>	smooth brome	2	2	2	0	3	2	3	2
732L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0				
732L	<i>Convolvulus arvensis</i>	field bindweed	2	2	0	0	2	2	0	0
732L	<i>Kochia scoparia</i>	kochia					0	2	0	0
732L	<i>Medicago sativa</i>	alfalfa	1	0	0	0				
732L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	2	0				
732L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
732L	<i>Rumex patientia</i>	patience dock					0	0	1	1
732L	<i>Setaria viridis</i>	green bristlegrass	2	2	0	0				
732L	<i>Taraxacum officinale</i>	dandelion	1	0	0	0	0	1	0	0
733L	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
733L	<i>Bromus inermis</i>	smooth brome	2	2	0	0	3	2	3	2
733L	<i>Bromus tectorum</i>	cheatgrass	0	2	2	0				
733L	<i>Convolvulus arvensis</i>	field bindweed	2	0	0	0	2	2	1	0
733L	<i>Descurainia sophia</i>	flixweed					1	1	2	0
733L	<i>Kochia scoparia</i>	kochia					2	2	0	0
733L	<i>Medicago sativa</i>	alfalfa	1	0	0	0	0	1	0	0
733L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	0	0	1	0	0	0
733L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
734L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
734L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
734L	<i>Bromus inermis</i>	smooth brome	.	.	.	0	3	2	3	2
734L	<i>Bromus japonicus</i>	Japanese brome					0	2	0	0
734L	<i>Bromus tectorum</i>	cheatgrass	.	.	0	0				
734L	<i>Conium maculatum</i>	poison hemlock					0	0	1	1
734L	<i>Convolvulus arvensis</i>	field bindweed	.	.	0	0	0	2	0	0
734L	<i>Descurainia sophia</i>	flixweed					2	1	2	0
734L	<i>Kochia scoparia</i>	kochia	.	0	0	0	0	2	0	0
734L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
734L	<i>Melilotus officinalis</i>	yellow sweetclover	.	.	.	0	0	0	2	2
734L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
734L	<i>Rumex crispus</i>	curley dock					1	0	1	0
734L	<i>Taraxacum officinale</i>	dandelion					0	1	0	0
734L	<i>Tragopogon dubius</i>	western salsify	.	.	0	0				
735L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
735L	<i>Bromus inermis</i>	smooth brome	2	2	2	0	3	2	2	2
735L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
735L	<i>Bromus tectorum</i>	cheatgrass	2	2	2	0				
735L	<i>Chenopodium album</i>	common lambsquarters					1	0	1	0
735L	<i>Kochia scoparia</i>	kochia	2	0	0	0	0	2	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
735L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
735L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0	2	0	2	2
735L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
735L	<i>Rumex patientia</i>	patience dock					1	0	2	0
736L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
736L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
736L	<i>Bromus inermis</i>	smooth brome	2	3	4	4	2	0	3	3
736L	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	2	2	0	0
736L	<i>Capsella bursa-pastoris</i>	shepard's purse					0	2	0	0
736L	<i>Conium maculatum</i>	poison hemlock					0	0	2	0
736L	<i>Convolvulus arvensis</i>	field bindweed	2	3	3	3	2	2	0	0
736L	<i>Descurainia sophia</i>	flixweed					2	1	0	0
736L	<i>Kochia scoparia</i>	kochia	2	0	0	0	2	2	0	0
736L	<i>Melilotus officinalis</i>	yellow sweetclover					2	0	2	0
736L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
737L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
737L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
737L	<i>Bromus inermis</i>	smooth brome	2	2	3	3	3	0	4	4
737L	<i>Bromus tectorum</i>	cheatgrass	2	2	3	3	2	2	0	0
737L	<i>Capsella bursa-pastoris</i>	shepard's purse					0	2	0	0
737L	<i>Convolvulus arvensis</i>	field bindweed	2	0	2	0	2	2	0	0
737L	<i>Descurainia sophia</i>	flixweed					2	1	0	0
737L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	0	0
737L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
737L	<i>Taraxacum officinale</i>	dandelion					0	1	0	0
738L	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
738L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
738L	<i>Bromus inermis</i>	smooth brome	3	3	3	3	3	0	4	4
738L	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	2	2	0	0
738L	<i>Capsella bursa-pastoris</i>	shepard's purse					0	2	0	0
738L	<i>Chenopodium album</i>	common lambsquarters	0	1	0	0	0	2	0	0
738L	<i>Convolvulus arvensis</i>	field bindweed	3	3	3	3	2	2	0	0
738L	<i>Descurainia sophia</i>	flixweed					2	1	0	0
738L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	0	0
738L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
738L	<i>Setaria viridis</i>	green bristlegrass	2	2	0	0				
738L	<i>Taraxacum officinale</i>	dandelion					0	1	0	0
739L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
739L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
739L	<i>Bromus inermis</i>	smooth brome	2	2	3	3	3	0	4	4
739L	<i>Bromus tectorum</i>	cheatgrass	2	2	3	3	2	2	0	0
739L	<i>Capsella bursa-pastoris</i>	shepard's purse					0	2	0	1

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
739L	<i>Chenopodium album</i>	common lambsquarters					0	2	0	0
739L	<i>Convolvulus arvensis</i>	field bindweed	2	0	2	2	2	2	0	0
739L	<i>Descurainia sophia</i>	flixweed					2	2	0	0
739L	<i>Kochia scoparia</i>	kochia	2	0	0	0	2	2	0	0
739L	<i>Polygonum arenastrum</i>	prostrate knotweed					0	2	0	0
739L	<i>Taraxacum officinale</i>	dandelion					0	2	0	0
740L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
740L	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	4	4	4
740L	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	0	2	0	0
740L	<i>Convolvulus arvensis</i>	field bindweed	3	3	3	3	0	2	0	0
740L	<i>Cynodon dactylon</i>	Bermudagrass					0	2	0	0
740L	<i>Kochia scoparia</i>	kochia	2	2	0	0	0	2	0	0
740L	<i>Setaria viridis</i>	green bristlegrass	2	2	0	0				
741L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
741L	<i>Bromus inermis</i>	smooth brome	2	2	3	3	4	3	4	4
741L	<i>Bromus tectorum</i>	cheatgrass	2	2	3	3	0	2	0	0
741L	<i>Convolvulus arvensis</i>	field bindweed	2	0	2	2				
741L	<i>Descurainia sophia</i>	flixweed					2	2	0	0
741L	<i>Kochia scoparia</i>	kochia	2	0	0	0	2	2	0	0
741L	<i>Taraxacum officinale</i>	dandelion	2	2	0	0				
741L	<i>Tribulus terrestris</i>	puncturevine	2	0	0	0				
742L	<i>Amaranthus retroflexus</i>	redroot pigweed					1	2	0	0
742L	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	3	4	4
742L	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	0	2	0	0
742L	<i>Chenopodium album</i>	common lambsquarters	0	1	0	0				
742L	<i>Convolvulus arvensis</i>	field bindweed	0	0	3	3				
742L	<i>Descurainia sophia</i>	flixweed					2	1	0	0
742L	<i>Kochia scoparia</i>	kochia	2	2	0	0	2	2	0	0
742L	<i>Rumex patientia</i>	patience dock	1	1	0	0				
742L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
742L	<i>Tribulus terrestris</i>	puncturevine	2	0	0	0				
743L	<i>Bromus inermis</i>	smooth brome	2	3	3	3	4	3	4	4
743L	<i>Bromus tectorum</i>	cheatgrass	2	3	3	3	0	2	0	0
743L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	2	2	2	0	0
743L	<i>Kochia scoparia</i>	kochia	2	0	0	0	0	2	0	0
743L	<i>Medicago sativa</i>	alfalfa	2	0	0	0				
743L	<i>Rumex patientia</i>	patience dock	2	0	0	0				
744L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	1	0	0
744L	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	2	4	4
744L	<i>Convolvulus arvensis</i>	field bindweed	2	3	3	3	0	2	0	0
744L	<i>Kochia scoparia</i>	kochia					0	2	0	0
745L	<i>Bromus inermis</i>	smooth brome	3	4	4	4	4	2	4	4

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
745L	<i>Convolvulus arvensis</i>	field bindweed	2	2	2	2	0	2	0	0
745L	<i>Kochia scoparia</i>	kochia					0	2	0	0
745L	<i>Medicago sativa</i>	alfalfa	1	0	0	0				
745L	<i>Rumex patientia</i>	patience dock	1	0	0	0	0	2	0	0
746L	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	3	4	4
746L	<i>Kochia scoparia</i>	kochia					0	2	0	0
747L	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	3	4	4
747L	<i>Convolvulus arvensis</i>	field bindweed					0	2	0	0
747L	<i>Kochia scoparia</i>	kochia					0	1	0	0
747L	<i>Medicago sativa</i>	alfalfa	2	0	0	0				
748L	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	3	4	4
748L	<i>Convolvulus arvensis</i>	field bindweed					0	2	0	0
748L	<i>Kochia scoparia</i>	kochia					2	2	0	0
749L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	2	0	0
749L	<i>Bromus inermis</i>	smooth brome	4	4	4	4	4	3	4	4
749L	<i>Convolvulus arvensis</i>	field bindweed	2	0	0	0	2	2	0	0
749L	<i>Kochia scoparia</i>	kochia					2	2	0	0
749L	<i>Rumex patientia</i>	patience dock					0	1	0	0
750L	<i>Bromus inermis</i>	smooth brome					4	3	4	4
750L	<i>Bromus tectorum</i>	cheatgrass					0	2	0	0
750L	<i>Cynodon dactylon</i>	Bermudagrass					0	2	0	0
750L	<i>Kochia scoparia</i>	kochia					2	2	0	0
751L	<i>Bromus inermis</i>	smooth brome					4	4	4	4
751L	<i>Bromus tectorum</i>	cheatgrass					0	2	0	0
751L	<i>Convolvulus arvensis</i>	field bindweed					2	2	0	0
751L	<i>Kochia scoparia</i>	kochia					0	2	0	0
751L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
752L	<i>Bromus inermis</i>	smooth brome					3	3	3	3
752L	<i>Convolvulus arvensis</i>	field bindweed					0	2	0	0
752L	<i>Kochia scoparia</i>	kochia					0	2	0	0
752L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
753L	<i>Bromus inermis</i>	smooth brome					3	3	3	4
753L	<i>Kochia scoparia</i>	kochia					0	2	0	0
753L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
754L	<i>Bromus inermis</i>	smooth brome					4	3	4	4
754L	<i>Kochia scoparia</i>	kochia					0	2	0	0
754L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
755L	<i>Bromus inermis</i>	smooth brome					4	3	4	4
755L	<i>Kochia scoparia</i>	kochia					0	2	0	0
755L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
756L	<i>Bromus inermis</i>	smooth brome					4	4	4	4
756L	<i>Kochia scoparia</i>	kochia					0	2	0	0

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Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non–detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
756L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
757L	<i>Bromus inermis</i>	smooth brome					4	4	4	4
757L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
758L	<i>Bromus inermis</i>	smooth brome					4	4	4	4
758L	<i>Bromus tectorum</i>	cheatgrass					0	2	0	0
758L	<i>Kochia scoparia</i>	kochia					0	2	0	0
758L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
759L	<i>Bromus inermis</i>	smooth brome					4	4	4	4
759L	<i>Convolvulus arvensis</i>	field bindweed					0	2	0	0
759L	<i>Kochia scoparia</i>	kochia					0	2	0	0
759L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
760L	<i>Bromus inermis</i>	smooth brome					3	3	4	4
760L	<i>Bromus tectorum</i>	cheatgrass					0	1	0	0
760L	<i>Convolvulus arvensis</i>	field bindweed					2	2	0	0
760L	<i>Kochia scoparia</i>	kochia					0	2	0	0
760L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
761L	<i>Bromus inermis</i>	smooth brome					4	3	4	4
761L	<i>Convolvulus arvensis</i>	field bindweed					0	1	0	0
761L	<i>Kochia scoparia</i>	kochia					0	2	0	0
761L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
762L	<i>Bromus inermis</i>	smooth brome					4	3	4	4
762L	<i>Bromus japonicus</i>	Japanese brome					0	2	0	0
762L	<i>Bromus tectorum</i>	cheatgrass					0	2	0	0
762L	<i>Convolvulus arvensis</i>	field bindweed					2	2	0	0
762L	<i>Kochia scoparia</i>	kochia					0	2	0	0
762L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
763L							2	2	0	0
763L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	1	0	0
763L	<i>Bromus inermis</i>	smooth brome					3	2	4	4
763L	<i>Bromus japonicus</i>	Japanese brome					2	2	0	0
763L	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
763L	<i>Kochia scoparia</i>	kochia					2	2	0	0
763L	<i>Medicago sativa</i>	alfalfa					0	2	0	0
763L	<i>Tribulus terrestris</i>	puncturevine					0	2	0	0
800L	<i>Bromus inermis</i>	smooth brome					2	2	0	0
800L	<i>Bromus tectorum</i>	cheatgrass					2	0	0	0
800L	<i>Convolvulus arvensis</i>	field bindweed					2	2	2	0
800L	<i>Cynodon dactylon</i>	Bermudagrass					2	2	0	0
800L	<i>Kochia scoparia</i>	kochia					2	2	2	2
800L	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
800L	<i>Melilotus officinalis</i>	yellow sweetclover					0	2	0	0
800L	<i>Polygonum arenastrum</i>	prostrate knotweed					2	2	2	0

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Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
800L	<i>Salsola tragus</i>	prickly Russian thistle					0	1	0	0
800L	<i>Taraxacum officinale</i>	dandelion					1	0	0	0
800L	<i>Triticum aestivum</i>	wheat					2	0	2	2
800R	<i>Bromus inermis</i>	smooth brome					2	0	4	4
800R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
800R	<i>Chenopodium album</i>	common lambsquarters					2	0	0	0
800R	<i>Convolvulus arvensis</i>	field bindweed					2	2	2	2
800R	<i>Cynodon dactylon</i>	Bermudagrass					0	2	0	0
800R	<i>Kochia scoparia</i>	kochia					0	2	0	0
800R	<i>Lactuca serriola</i>	prickly lettuce					0	1	1	0
800R	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
800R	<i>Melilotus officinalis</i>	yellow sweetclover					1	1	2	2
800R	<i>Polygonum arenastrum</i>	prostrate knotweed					2	2	0	0
800R	<i>Tragopogon dubius</i>	western salsify					0	1	0	0
800R	<i>Triticum aestivum</i>	wheat					0	2	0	0
801L	<i>Achillea millefolium</i>	yarrow					1	0	0	0
801L	<i>Bromus inermis</i>	smooth brome					2	2	2	2
801L	<i>Bromus japonicus</i>	Japanese brome					0	1	0	0
801L	<i>Bromus tectorum</i>	cheatgrass					2	0	0	0
801L	<i>Chenopodium album</i>	common lambsquarters					1	0	1	0
801L	<i>Convolvulus arvensis</i>	field bindweed					2	2	0	0
801L	<i>Cynodon dactylon</i>	Bermudagrass					2	2	0	0
801L	<i>Kochia scoparia</i>	kochia					2	2	2	0
801L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
801L	<i>Lamium amplexicaule</i>	henbit					0	2	0	0
801L	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
801L	<i>Melilotus officinalis</i>	yellow sweetclover					0	2	0	1
801L	<i>Triticum aestivum</i>	wheat					2	0	2	2
801R	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
801R	<i>Bromus inermis</i>	smooth brome					2	1	4	4
801R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
801R	<i>Convolvulus arvensis</i>	field bindweed					2	2	2	2
801R	<i>Kochia scoparia</i>	kochia					0	2	0	0
801R	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
801R	<i>Medicago lupulina</i>	black medic clover					2	0	0	0
801R	<i>Melilotus officinalis</i>	yellow sweetclover					2	1	2	1
801R	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
801R	<i>Triticum aestivum</i>	wheat					2	2	0	0
802L	<i>Amaranthus retroflexus</i>	redroot pigweed					1	0	0	0
802L	<i>Bromus inermis</i>	smooth brome					2	0	3	0
802L	<i>Bromus japonicus</i>	Japanese brome					0	1	0	0
802L	<i>Bromus tectorum</i>	cheatgrass					2	0	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non–detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
802L	<i>Cynodon dactylon</i>	Bermudagrass					0	2	0	0
802L	<i>Kochia scoparia</i>	kochia					2	0	0	0
802L	<i>Lactuca serriola</i>	prickly lettuce					1	2	2	0
802L	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
802L	<i>Melilotus officinalis</i>	yellow sweetclover					2	0	2	0
802L	<i>Tragopogon dubius</i>	western salsify					2	0	0	0
802L	<i>Triticum aestivum</i>	wheat					2	0	2	0
802R	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
802R	<i>Bromus inermis</i>	smooth brome					3	1	4	4
802R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
802R	<i>Chenopodium album</i>	common lambsquarters					2	0	0	0
802R	<i>Convolvulus arvensis</i>	field bindweed					2	2	2	0
802R	<i>Kochia scoparia</i>	kochia					2	2	0	0
802R	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
802R	<i>Lamium amplexicaule</i>	henbit					0	1	0	0
802R	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
802R	<i>Melilotus officinalis</i>	yellow sweetclover					2	0	2	1
802R	<i>Polygonum arenastrum</i>	prostrate knotweed					2	2	0	0
802R	<i>Triticum aestivum</i>	wheat					2	2	0	0
803L	<i>Bromus inermis</i>	smooth brome					2	2	3	0
803L	<i>Bromus tectorum</i>	cheatgrass					2	0	0	0
803L	<i>Convolvulus arvensis</i>	field bindweed					2	2	0	0
803L	<i>Descurainia sophia</i>	flixweed					2	0	0	0
803L	<i>Kochia scoparia</i>	kochia					2	2	0	0
803L	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
803L	<i>Melilotus officinalis</i>	yellow sweetclover					2	2	0	0
803L	<i>Triticum aestivum</i>	wheat					2	2	0	0
803R	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
803R	<i>Bromus inermis</i>	smooth brome					2	0	4	4
803R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
803R	<i>Convolvulus arvensis</i>	field bindweed					2	0	2	2
803R	<i>Kochia scoparia</i>	kochia					0	2	0	0
803R	<i>Lamium amplexicaule</i>	henbit					0	1	0	0
803R	<i>Lolium perenne</i>	perennial ryegrass					3	2	0	0
803R	<i>Melilotus officinalis</i>	yellow sweetclover					2	0	2	0
803R	<i>Polygonum arenastrum</i>	prostrate knotweed					2	0	0	0
803R	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
803R	<i>Tribulus terrestris</i>	puncturevine					0	1	0	0
803R	<i>Triticum aestivum</i>	wheat					2	2	0	0
804L	<i>Amaranthus retroflexus</i>	redroot pigweed					0	1	0	0
804L	<i>Bromus inermis</i>	smooth brome					2	1	2	3
804L	<i>Bromus tectorum</i>	cheatgrass					2	0	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
804L	<i>Cynodon dactylon</i>	Bermudagrass					0	1	0	0
804L	<i>Kochia scoparia</i>	kochia					2	2	0	0
804L	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
804L	<i>Melilotus officinalis</i>	yellow sweetclover					2	1	2	2
804L	<i>Taraxacum officinale</i>	dandelion					0	2	0	0
804L	<i>Triticum aestivum</i>	wheat					2	2	0	0
804R	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
804R	<i>Bromus inermis</i>	smooth brome					3	2	4	4
804R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
804R	<i>Convolvulus arvensis</i>	field bindweed					2	0	2	2
804R	<i>Kochia scoparia</i>	kochia					2	2	0	0
804R	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
804R	<i>Melilotus officinalis</i>	yellow sweetclover					2	1	2	0
804R	<i>Polygonum arenastrum</i>	prostrate knotweed					2	0	0	0
804R	<i>Salsola tragus</i>	prickly Russian thistle					1	1	0	0
804R	<i>Triticum aestivum</i>	wheat					2	2	0	0
805L	<i>Aegilops cylindrica</i>	jointed goat grass					0	2	0	0
805L	<i>Bromus inermis</i>	smooth brome					2	1	1	2
805L	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
805L	<i>Kochia scoparia</i>	kochia					0	1	0	0
805L	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	0
805L	<i>Melilotus officinalis</i>	yellow sweetclover					2	2	2	2
805L	<i>Polygonum arenastrum</i>	prostrate knotweed					2	2	0	0
805L	<i>Tragopogon dubius</i>	western salsify					2	1	0	0
805L	<i>Triticum aestivum</i>	wheat					2	2	0	0
805R	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
805R	<i>Bromus inermis</i>	smooth brome					3	0	4	4
805R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
805R	<i>Chenopodium album</i>	common lambsquarters					2	1	0	0
805R	<i>Cynodon dactylon</i>	Bermudagrass					0	2	0	0
805R	<i>Kochia scoparia</i>	kochia					0	2	0	0
805R	<i>Lolium perenne</i>	perennial ryegrass					2	3	0	0
805R	<i>Melilotus officinalis</i>	yellow sweetclover					3	2	2	0
805R	<i>Polygonum arenastrum</i>	prostrate knotweed					2	2	0	0
805R	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
805R	<i>Triticum aestivum</i>	wheat					2	2	0	0
806L	<i>Aegilops cylindrica</i>	jointed goat grass					2	1	0	0
806L	<i>Bromus inermis</i>	smooth brome					2	0	3	2
806L	<i>Bromus tectorum</i>	cheatgrass					2	1	2	0
806L	<i>Chenopodium album</i>	common lambsquarters					1	0	0	0
806L	<i>Kochia scoparia</i>	kochia					2	1	2	0
806L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

Table 4. Comparison of 2011 through 2014 detections for each individual Vector Block, detailing the given Density Code for each Distance Class (continued).

Block	Scientific Name	Common Name	2011				2014			
			D1	D2	D3	D4	D1	D2	D3	D4
806L	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	0
806L	<i>Melilotus officinalis</i>	yellow sweetclover					2	1	2	0
806L	<i>Polygonum arenastrum</i>	prostrate knotweed					2	2	0	0
806L	<i>Tragopogon dubius</i>	western salsify					2	0	0	0
806L	<i>Triticum aestivum</i>	wheat					2	2	0	0
806R	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	0	0
806R	<i>Amaranthus retroflexus</i>	redroot pigweed					2	2	0	0
806R	<i>Bromus inermis</i>	smooth brome					0	0	4	4
806R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
806R	<i>Chenopodium album</i>	common lambsquarters					2	2	0	0
806R	<i>Convolvulus arvensis</i>	field bindweed					2	0	0	0
806R	<i>Kochia scoparia</i>	kochia					2	2	0	0
806R	<i>Lolium perenne</i>	perennial ryegrass					2	3	0	0
806R	<i>Melilotus officinalis</i>	yellow sweetclover					2	2	2	2
806R	<i>Polygonum arenastrum</i>	prostrate knotweed					1	1	0	0
806R	<i>Salsola tragus</i>	prickly Russian thistle					2	1	0	0

Distance Class Key: D1 = edge of vector to 2 meters into the landscape (or inner edge of mow line); D2 = interior edge of D1 to 10 meters; D3 & D4 = each additional 10 meters into the landscape.

Density Code Key: 0 = no plants; 1 = 1–5 plants; 2 = scattered patches; 3 = even distributed patches; 4 = matrix; X = non-detect

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