



Chickasaw National Recreation Area

Southern Plains Network and Southern Plains Fire Group 2014 Vegetation Monitoring Data Summary



ON THE COVER

Grassland field at Chickasaw NRA. NPS Photo.

Chickasaw National Recreation Area

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Introduction

This report contains a data summary of results from all vegetation monitoring conducted by the Southern Plains I&M Network (SOPN) and the Southern Plains Fire Group (SPFG) during 2014 at Chickasaw National Recreation Area (CHIC). Data summaries are used to impart current monitoring data until enough years of data have been collected to facilitate trend analysis. More detailed synthesis reports will be produced in 2015-2017.

Grassland Monitoring Results

Grassland monitoring occurred at various times throughout the summer of 2014 (Table 1). Data from eleven (11) permanent transects (Figure 2) were collected following the established monitoring protocol Grassland Monitoring Protocol and Standard Operating Procedures for the Southern Plains I&M Network and Fire Group (Folts-Zettner et al.)(Figure 1). The protocol calls for a series of permanent 50-meter transects containing five 2x1-meter plots. Species composition, relative cover and ground strata are collected during annual visits. Additional data is collected during visits that support the SPFG program.

Table 1. Plant community and sampling dates for each transect at Chickasaw NRA in 2014.

Group	Transect	Plant community	Date
Restoration	NH-LT01	Old Field	05/24
	NH-LT02	Old Field	05/25
Upland	CHIC-01	Upland Grass	07/03
	CHIC-02	Upland Grass	07/05
	CHIC-03	Upland Grass	07/06
	CHIC-04	Upland Grass	07/03
	CHIC-06	Upland Grass	07/07
	LAKE-LT01	Upland Grass	07/08
	WH-01	Upland Grass	05/23
	WH-F03	Upland Grass	06/05
	WH-LT05	Upland Grass	05/25

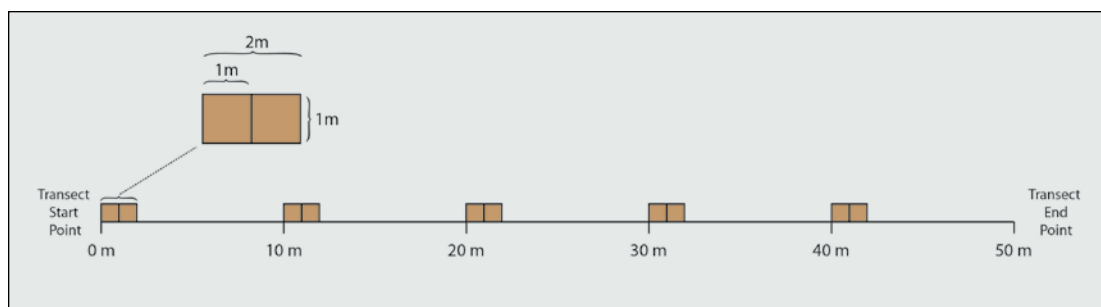


Figure 1. Layout of plots within each permanent transect.

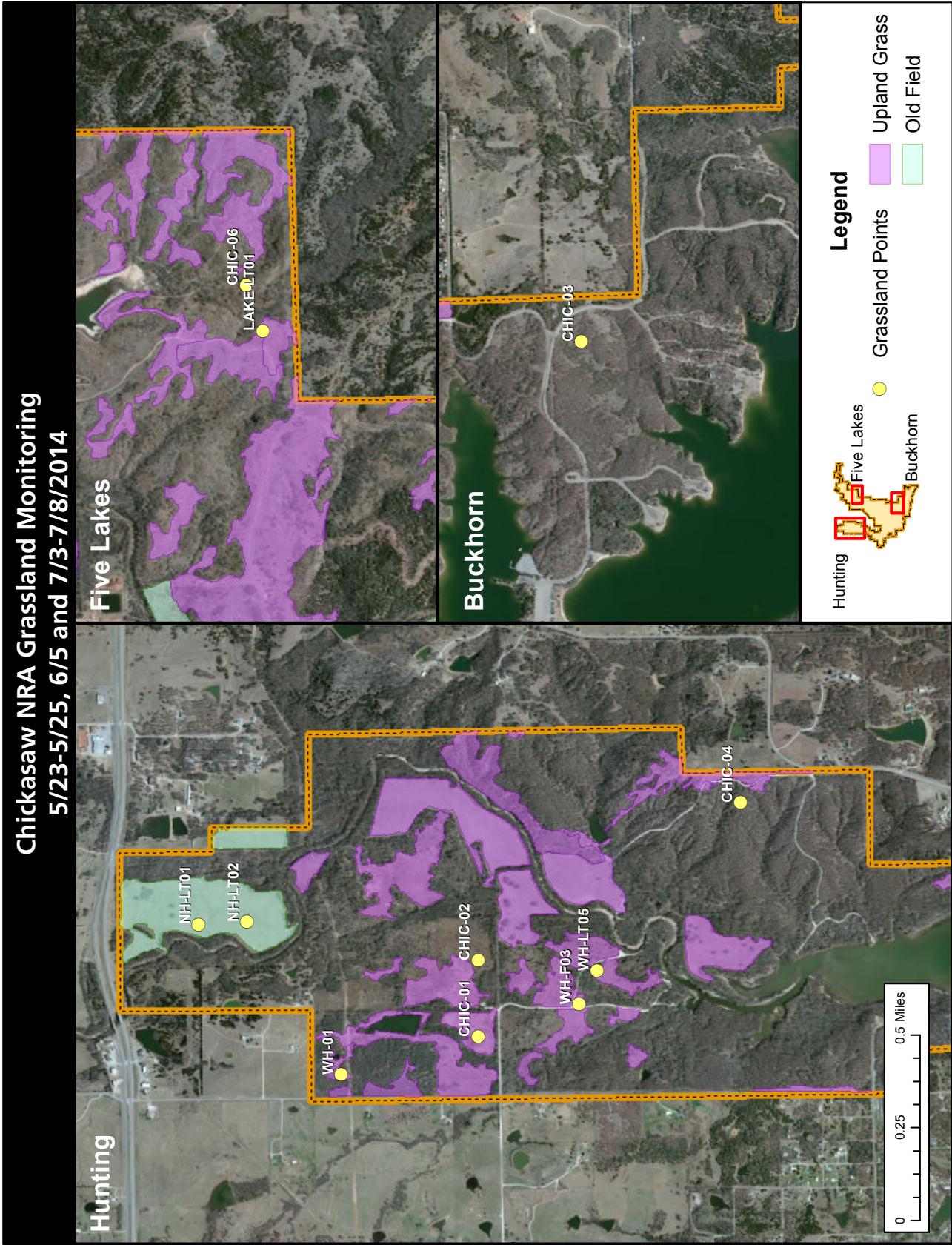


Figure 2. Location of each permanent plot at CHIC monitored in 2014

The type and amount of ground strata (bare soil, litter, rock) influences many aspects of grassland health. The benefits of these influences vary along an east-west gradient. Litter accumulation, for example is considered more beneficial in the western parts of the Southern Great Plains because it protects the soil from erosion by wind and rain, and keeps soil root-zones cooler. These same benefits accrue in the eastern area, but because higher rainfall results in higher vegetative production, the greater accumulation of litter can negatively impact a grassland by limiting seedling recruitment. Ground strata estimates for each transect monitored at CHIC in 2014 can be found in Table 2.

Table 3 contains numerical results of 2014 grassland monitoring at CHIC. Each transect contains five plots. Frequency reflects the number of plots in each transect where a particular species was detected. Exotic plant species are highlighted in pink. Scientific and common names for each plant code, as well as that species attributes can be found in Table 4.

Table 2. Ground strata type and percentage for each transect monitored at CHIC in 2014.

Cover	Old Field Community		Upland Grassland Community			
	NH-LT01	NH-LT02	CHIC-01	CHIC-02	CHIC-03	CHIC-04
SOIOPEN	1	0.6	6.8	2.4	1.6	2.6
SOILUNDER	2	1.2	8.6	6.2	1.6	4.8
LITTER	97	98.2	77.2	85.6	86.6	71.8
WOOD	0	0	0.8	4.4	7.6	8.2
ROCKSM	0	0	0.8	1	0.2	6.4
ROCKLG	0	0	0	0	1.4	4.6
LICHEN	0	0	0	0	0.4	0
MOSS	0	0	0	0.4	0.6	1.6
CRUST	0	0	5.8	0	0	0

Cover	Upland Grassland Community				
	CHIC-06	LAKE-LT01	WH-01	WH-F03	WH-LT05
SOIOPEN	11.6	3	2.2	5.8	1.2
SOILUNDER	18.4	3	4.2	4.6	2
LITTER	45.6	86.8	92	86.8	96.6
WOOD	15	0.2	1.6	1.2	0.2
ROCKSM	6.6	5.2	0	1.6	0
ROCKLG	2.8	0.2	0	0	0
LICHEN	0	0	0	0	0
MOSS	0	0.2	0	0	0
CRUST	0	1.4	0	0	0

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink.

Species Code	Old Field Community				Upland Grassland Community							
	NH-LT01		NH-LT02		CHIC-01		CHIC-02		CHIC-03		CHIC-04	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
Forb												
ACAANG					7	1	28	2	1.5	2		
ACHMIL	1	2	4.5	3					0.5	1		
AMBART												
AMBPSI							1	2				
AMBTRI												
AMPDRA												
APOCAN							3.5	2				
ARTCAR												
ASCTUB			0.5	1								
ASCVIR			0.5	1								
ASCVIR2					1	1						
ASTPRA							3	1				
BAP AUS							3	1				
BRIEUP							1.5	2				
CALALC												
CALSER												
CENAME												
CHAFAS												
CHALAT												
CHAMIS												
CHATAI			0.5	1								
CHEALB												
CIRUND												
CONCAN											4.5	3
CONEQU												
CORTIN												
CROMON			0.5	1	0.5	1			1.5	2	1	1
DALPUR					1	2						
DESILL					0.5	1					0.5	1
DESPAN							0.5	1				
DESSSES							4.5	5			1.5	3
DRAAMP			1	2								
ERIANN					4.5	4	1.5	3			3	4
ERILON												
ERISTR												
ERYLEA												
EUPDEN									2	4		
GAIPUL	0.5	1			0.5	1			0.5	1		
GALPIL									1	1		
GALVIR											0.5	1
GERCAR	0.5	1										
GLABIP												

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink (continued).

Species Code	Upland Grassland Community									
	CHIC-06		LAKE-LT01		WH-01		WH-F03		WH-LT05	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
Forb										
ACAANG							5	5		
ACHMIL					2	4			2	3
AMBART					4	5	0.5	1	5	4
AMBPSI	0.5	1	17	3						
AMBTRI	1	1								
AMPDRA			0.5	1						
APOCAN										
ARTCAR			1.5	2	1	2	0.5	1		
ASCTUB										
ASCVIR					0.5	1				
ASCVIR2					0.5	2				
ASTPRA									8.5	3
BAP AUS					10	4				
BRIEUP										
CALALC					0.5	1				
CALSER							0.5	1		
CENAME			0.5	1						
CHAFAS			0.5	1						
CHALAT	1	1								
CHAMIS	0.5	1	1	2						
CHATAI										
CHEALB	1	1								
CIRUND			2.5	4						
CONCAN										
CONEQU			0.5	1						
CORTIN			5	4						
CROMON	10	2	2	3						
DALPUR			0.5	1			0.5	1		
DESILL			1	1	2.5	3			2	3
DESPAN									1.5	3
DESSSES										
DRAAMP										
ERIANN					8	4				
ERILON	0.5	1	0.5	1						
ERISTR							4.5	4	14.5	5
ERYLEA			3	5						
EUPDEN										
GAIPUL			0.5	1						
GALPIL										
GALVIR										
GERCAR									1	2
GLABIP			0.5	1						

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink (continued).

Species Code	Old Field Community				Upland Grassland Community							
	NH-LT01		NH-LT02		CHIC-01		CHIC-02		CHIC-03		CHIC-04	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
GRIPAP												
HELANN												
HELHIR									1	1		
HELTEN											0.5	1
LACSER											1.5	3
LEPDEN	3	5	2	4								
LESCUN												
LESPRO					1	1						
LESVIR									15	1		
LIAMUC					4	5						
LIASQU							1.5	2				
LINMED												
LINSUL					1.5	3						
MIMNUT												
MINMIC												
MOLVER					0.5	1	1	2				
MONCIT												
MONCLI					1	2						
OXASTR	1.5	3	2.5	5	0.5	1			0.5	1		
PACOBO									2.5	4		
PENOKL												
PHYPOL									1	1		
PLAPAT	4.5	4										
PLARUG					2	4	1	2	0.5	1	1.5	3
PLAVIR			2.5	4			0.5	1			1	2
POLNUT												
PSOTEN											0.5	1
RUBFLA												
RUDHIR	0.5	1					0.5	1	1	1	0.5	1
RUMCRI			1	2								
SABCAM					2.5	4	0.5	1	0.5	1		
SANODO									0.5	1		
SIDABU												
SILANT	2	4	1	2			0.5	1				
SISCAM												
SOLCAN	1	1										
SOLCAR	2	2	0.5	1								
SOLDIM												
SOLGIG												
SOLMIS												
SOLULM									0.5	1	1	1
STEMED	2	4	1.5	3								
SYMERI	17.5	4	39	5					0.5	1		

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink (continued).

Species Code	Upland Grassland Community									
	CHIC-06		LAKE-LT01		WH-01		WH-F03		WH-LT05	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
GRIPAP			0.5	1						
HELANN	1	1								
HELHIR										
HELTEN										
LACSER	1.5	2								
LEPDEN										
LESCUN							0.5	1	7.5	5
LESPRO							1	1		
LESVIR	0.5	1	0.5	1						
LIAMUC							7	3		
LIASQU										
LINMED			1	2						
LINSUL										
MIMNUT							11	2		
MINMIC			0.5	1						
MOLVER										
MONCIT							1.5	3		
MONCLI										
OXASTR					1	2			4	5
PACOBO										
PENOKL							0.5	1		
PHYPOL			6.5	3						
PLAPAT									2	4
PLARUG							2.5	3		
PLAVIR					2	4				
POLNUT					2	3	2.5	3	3.5	2
PSOTEN										
RUBFLA					0.5	1	1	2	1	1
RUDHIR									1.5	2
RUMCRI										
SABCAM										
SANODO										
SIDABU			1	1						
SILANT										
SISCAM					1.5	3				
SOLCAN					0.5	1				
SOLCAR			1	1						
SOLDIM							1	1		
SOLGIG					3.5	2				
SOLMIS									2	2
SOLULM	4	2								
STEMED									0.5	1
SYMERI										

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink (continued).

Species Code	Old Field Community				Upland Grassland Community							
	NH-LT01		NH-LT02		CHIC-01		CHIC-02		CHIC-03		CHIC-04	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
SYMPRA					9	5	6.5	3				
TRARAM												
TRIDUB	23	5	0.5	1								
TRIHOL	2	3	2	4								
TRIHYP	58.5	5										
VERBAL									1	1		
Grass												
ANDGER							4	2			1	1
ARIPUR					2	2						
BOTISC												
BOTLAG					0.5	1						
BOUCUR							1	1			3.5	2
BOURIG					10	1						
BROJAP	23.5	5	7	5								
CARAMP												
CARMEA	1.5	3	2.5	5					2	2	2	2
CARMUE					1.5	3						
CARRET					0.5	1						
CYPECH							1	2				
DICACU	3.5	4	1	2	3.5	4	3.5	5	5.5	2		
DICLAX												
DICLIN							1.5	2			6	2
DIGCOG												
ELEACU									8	2		
ELYVIR												
ERACAP							1.5	2				
ERASPE					1	2			3	1		
HORPUS	2	4	1	2								
LOLPER			1	2								
NASLEU												
PANVIR												
POAPRA					0.5	1						
SCHPAN	0.5	1										
SCHSCO					125	5	127	5	1	1	1	1
SORHAL	10	5	51	5								
SORNUT					9	5	4.5	3				
SPOCOM					5	3	16	2	7.5	2	16	3
SPOCRY												
TRIFLA									6	2	15	1
TRIMUT												
VULOCT							1	1				
Shrub												
RHUTRI												

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink (continued).

Species Code	Upland Grassland Community									
	CHIC-06		LAKE-LT01		WH-01		WH-F03		WH-LT05	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
SYMPRA					40	5	3	4	4.5	5
TRARAM			1.5	2			2	4		
TRIDUB										
TRIHOL									2	4
TRIHYP										
VERBAL										
Grass										
ANDGER										
ARIPUR			6	2					1	1
BOTISC					7	1				
BOTLAG			3	1						
BOUCUR										
BOURIG										
BROJAP			2	2	2	3			1.5	3
CARAMP					0.5	1				
CARMEA	1	1			1.5	3	2	3	1.5	3
CARMUE							1.5	2		
CARRET										
CYPECH										
DICACU	5	1	3.5	2	11	5	2.5	5		
DICLAX									6	5
DICLIN					0.5	1				
DIGCOG			1	1						
ELEACU					0.5	1			0.5	1
ELYVIR					0.5	1				
ERACAP										
ERASPE	8	2								
HORPUS										
LOLPER										
NASLEU			3	1	3.5	5	0.5	1	1	2
PANVIR									0.5	1
POAPRA										
SCHPAN										
SCHSCO			20	2	2	3	26	5	11.5	4
SORHAL			8	2	0.5	1				
SORNUT			1	1	18	4	7	5	3	4
SPOCOM	20	1	6	2			1.5	2	1	1
SPOCRY			18.5	3						
TRIFLA										
TRIMUT			1	1						
VULOCT										
Shrub										
RHUTRI	10	2								

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink (continued).

Species Code	Old Field Community				Upland Grassland Community							
	NH-LT01		NH-LT02		CHIC-01		CHIC-02		CHIC-03		CHIC-04	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
SYMORB									27	2		
Subshrub												
ESCVIV												
OPUENG												
Tree												
CELLAE							0.5	1	0.5	1		
CELTEN												
CERCAN												
DIOVIR							3	1				
FRAAME												
JUNVIR											3.5	2
QUESHU											81	3
QUESTE									0.5	1		
RHUCOP					3	1	70	4				
RHUGLA					1	1	3	1				
ULMALA							2	3	1.5	2	7	1
ULMAME												
Vine												
LATHIR	0.5	1										
LONJAP											0.5	1
PARQUI												
RUBTRI							0.5	1				
SMIBON	0.5	1									0.5	1
STRLEI							0.5	1	1.5	3	1	2
VICSAT	2.5	3	0.5	1								

Table 3. Species cover sum and frequency for each permanent transect monitored at CHIC in 2014. Exotic species are highlighted in pink (continued).

Species Code	Upland Grassland Community									
	CHIC-06		LAKE-LT01		WH-01		WH-F03		WH-LT05	
	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency	Cover Sum	Frequency
SYMORB	1	1			15	3			1	1
Subshrub										
ESCVIV			1	1						
OPUENG			2.5	3						
Tree										
CELLAE										
CELTEN	1.5	2			0.5	1				
CERCAN	13	3								
DIOVIR	1	1					7	3		
FRAAME	1	1								
JUNVIR										
QUESHU	40	1								
QUESTE	3	1								
RHUCOP							19	3	20	1
RHUGLA							10.5	3		
ULMALA	5	1					3	3	16	2
ULMAME					0.5	1			2	2
Vine										
LATHIR										
LONJAP										
PARQUI	3	1								
RUBTRI										
SMIBON	13.5	2	3	1	1	2	1.5	2		
STRLEI	6	2					1	2		
VICSAT										

Table 4. All plant species detected during grassland monitoring in 2011 and exotic monitoring in 2011 and 2014 at CHIC. Exotic species are highlighted in pink.

Species Code	Life Form	Scientific Name	Common Name	Primary Duration
ACAANG	Forb	<i>Acacia angustissima</i>	prairie acacia	Perennial
ACHMIL	Forb	<i>Achillea millefolium</i>	yarrow	Perennial
AEGCYL	Grass	<i>Aegilops cylindrica</i>	jointed goat grass	Annual
ALBJUL	Tree	<i>Albizia julibrissin</i>	mimosa	Perennial
AMBART	Forb	<i>Ambrosia artemisiifolia</i>	common ragweed	Annual
AMBPSI	Forb	<i>Ambrosia psilostachya</i>	western ragweed	Perennial
AMBTRI	Forb	<i>Ambrosia trifida</i>	giant ragweed	Annual
AMPDRA	Forb	<i>Amphiachyris dracunculoides</i>	prairie broomweed	Annual
ANDGER	Grass	<i>Andropogon gerardii</i>	big bluestem	Perennial
APOCAN	Forb	<i>Apocynum cannabinum</i>	hemp dogbane	Perennial
ARIPUR	Grass	<i>Aristida purpurea</i>	purple threeawn	Perennial
ARTCAR	Forb	<i>Artemisia carruthii</i>	carruth's sagewort	Perennial
ASCTUB	Forb	<i>Asclepias tuberosa</i>	butterfly milkweed	Perennial
ASCVIR	Forb	<i>Asclepias viridiflora</i>	green comet milkweed	Perennial
ASCVIR2	Forb	<i>Asclepias viridiflora</i>	green comet milkweed	Perennial
ASTPRA	Forb	<i>Aster praealtum</i>	willowleaf aster	Perennial
BAP AUS	Forb	<i>Baptisia australis</i>	blue wild indigo	Perennial
BOTISC	Grass	<i>Bothriochloa ischaemum</i>	kr bluestem	Perennial
BOTLAG	Grass	<i>Bothriochloa laguroides</i>	silver bluestem	Perennial
BOUCUR	Grass	<i>Bouteloua curtipendula</i>	sideoats grama	Perennial
BOURIG	Grass	<i>Bouteloua rigidiseta</i>	texas grama	Perennial
BRIEUP	Forb	<i>Brickellia eupatorioides</i>	false boneset brickellbush	Perennial
BROCAT	Grass	<i>Bromus catharticus</i>	rescue grass	Annual/Perennial
BROJAP	Grass	<i>Bromus japonicus</i>	japanese brome	Annual
BROLAN	Grass	<i>Bromus lanceolatus</i>	mediterranean brome	Annual
BROTEC	Grass	<i>Bromus tectorum</i>	cheatgrass	Annual
CALALC	Forb	<i>Callirhoe alcaeoides</i>	plains poppymallow	Perennial
CALSER	Forb	<i>Calylophus serrulatus</i>	halfshrub sundrop	Perennial
CARAMP	Grass	<i>Carex amphibola</i>	eastern narrowleaf sedge	Perennial
CARMEA	Grass	<i>Carex meadii</i>	mead sedge	Perennial
CARMUE	Grass	<i>Carex muehlenbergii</i>	muhlenbergs sedge	Perennial
CARRET	Grass	<i>Carex retroflexa</i>	reflexed sedge	Perennial
CELLAE	Tree	<i>Celtis laevigata</i>	sugarberry	Perennial
CELTEN	Tree	<i>Celtis tenuifolia</i>	dwarf hackberry	Perennial
CENAME	Forb	<i>Centaurea americana</i>	american basketflower	Annual
CERCAN	Tree	<i>Cercis canadensis</i>	eastern redbud	Perennial
CHAFAS	Forb	<i>Chamaecrista fasciculata</i>	showy partridge pea	Annual
CHALAT	Forb	<i>Chamaesyce lata</i>	hoary sandmat	Perennial
CHAMIS	Forb	<i>Chamaesyce missurica</i>	prairie sandmat	Annual
CHATAI	Forb	<i>Chaerophyllum tainturieri</i>	chervil hairy-fruited	Annual
CHEALB	Forb	<i>Chenopodium album</i>	common lambsquarters	Annual
CIRUND	Forb	<i>Cirsium undulatum</i>	wavyleaf thistle	Biennial

Table 4. All plant species detected during grassland monitoring in 2011 and exotic monitoring in 2011 and 2014 at CHIC. Exotic species are highlighted in pink. (continued).

Species Code	Life Form	Scientific Name	Common Name	Primary Duration
CONCAN	Forb	<i>Conyza canadensis</i>	canada horseweed	Annual
CONEQU	Forb	<i>Convolvulus equitans</i>	texas bindweed	Annual/Perennial
CONMAC	Forb	<i>Conium maculatum</i>	poison hemlock	Biennial
CORTIN	Forb	<i>Coreopsis tinctoria</i>	plains coreopsis	Annual
CORVAR	Forb	<i>Coronilla varia</i>	purple crownvetch	Perennial
CROMON	Forb	<i>Croton monanthogynus</i>	oneseede croton	Annual
CYNDAC	Grass	<i>Cynodon dactylon</i>	Bermudagrass	Perennial
CYPECH	Grass	<i>Cyperus echinatus</i>	globe flatsedge	Perennial
DALPUR	Forb	<i>Dalea purpurea</i>	purple prairie clover	Perennial
DAUCAR	Forb	<i>Daucus carota</i>	queen anne's lace	Biennial
DESILL	Forb	<i>Desmanthus illinoensis</i>	illinois bundleflower	Perennial
DESPAN	Forb	<i>Desmodium paniculatum</i>	narrowleaf ticktrefoil	Perennial
DESSSES	Forb	<i>Desmodium sessilifolium</i>	sessileleaf tickclover	Perennial
DICACU	Grass	<i>Dichanthelium acuminatum</i>	tapered panicgrass	Perennial
DICLAX	Grass	<i>Dichanthelium laxiflorum</i>	openflower panicgrass	Perennial
DICLIN	Grass	<i>Dichanthelium linearifolium</i>	slim leaf panicgrass	Perennial
DIGCOG	Grass	<i>Digitaria cognata</i>	carolina crabgrass	Perennial
DIOVIR	Tree	<i>Diospyros virginiana</i>	common persimmon	Perennial
DRAAMP	Forb	<i>Dracopis amplexicaulis</i>	clasping coneflower	Annual
ELEACU	Grass	<i>Eleocharis acutisquamata</i>	sharpsscale spikerush	Perennial
ELYVIR	Grass	<i>Elymus virginicus</i>	virginia wildrye	Perennial
ERACAP	Grass	<i>Eragrostis capillaris</i>	lacegrass: lace grass	Annual
ERASPE	Grass	<i>Eragrostis spectabilis</i>	purple lovegrass	Perennial
ERIANN	Forb	<i>Erigeron annuus</i>	annual fleabane	Annual
ERILON	Forb	<i>Eriogonum longifolium</i>	longleaf buckwheat	Perennial
ERISTR	Forb	<i>Erigeron strigosus</i>	rough fleabane	Annual
EROCIC	Forb	<i>Erodium cicutarium</i>	red stem storksbill	Annual
ERYLEA	Forb	<i>Eryngium leavenworthii</i>	leavenworth's eryngo	Annual
ESCIVV	Subshrub	<i>Escobaria vivipara</i>	spiny star	Perennial
EUPDAV	Forb	<i>Euphorbia davidii</i>	davids spurge	Annual
EUPDEN	Forb	<i>Euphorbia dentata</i>	toothed spurge	Annual
FRAAME	Tree	<i>Fraxinus americana</i>	white ash	Perennial
GAIPUL	Forb	<i>Gaillardia pulchella</i>	indian blanket	Annual
GALPIL	Forb	<i>Galium pilosum</i>	hairy bedstraw	Perennial
GALVIR	Forb	<i>Galium virgatum</i>	southwest bedstraw	Annual
GERCAR	Forb	<i>Geranium carolinianum</i>	carolina geranium	Annual
GLABIP	Forb	<i>Glandularia bipinnatifida</i>	dakota mock vervain	Annual
GRIPAP	Forb	<i>Grindelia papposa</i>	wax gumweed	Annual
HELANN	Forb	<i>Helianthus annuus</i>	common sunflower	Annual
HELHIR	Forb	<i>Helianthus hirsutus</i>	hairy sunflower	Perennial
HELTEN	Forb	<i>Heliotropium tenellum</i>	pasture heliotrope	Annual
HORPUS	Grass	<i>Hordeum pusillum</i>	little barley	Perennial

Table 4. All plant species detected during grassland monitoring in 2011 and exotic monitoring in 2011 and 2014 at CHIC. Exotic species are highlighted in pink. (continued).

Species Code	Life Form	Scientific Name	Common Name	Primary Duration
JUNVIR	Tree	<i>Juniperus virginiana</i>	eastern red cedar	Perennial
KOCSO	Forb	<i>Kochia scoparia</i>	kochia	Annual
KUMSTI	Forb	<i>Kummerowia stipulacea</i>	korean lespedeza	Annual
LACSER	Forb	<i>Lactuca serriola</i>	prickly lettuce	Annual
LATHIR	Vine	<i>Lathyrus hirsutus</i>	singletary pea	Annual
LEPDEN	Forb	<i>Lepidium densiflorum</i>	common pepperweed	Annual
LESCUN	Forb	<i>Lespedeza cuneata</i>	sericea lespedeza	Perennial
LESPRO	Forb	<i>Lespedeza procumbens</i>	trailing lespedeza	Perennial
LESVIR	Forb	<i>Lespedeza virginica</i>	slender lespedeza	Perennial
LIAMUC	Forb	<i>Liatris mucronata</i>	narrowleaf gayfeather	Perennial
LIASQU	Forb	<i>Liatris squarrosa</i> var. <i>glabrata</i>	scaley gayfeather	Perennial
LINMED	Forb	<i>Linum medium</i>	stiff yellow flax	Annual
LINSUL	Forb	<i>Linum sulcatum</i>	grooved flax	Annual
LOLPER	Grass	<i>Lolium perenne</i>	perennial ryegrass	Annual
LONJAP	Vine	<i>Lonicera japonica</i>	japanese honeysuckle	Perennial
MEDLUP	Forb	<i>Medicago lupulina</i>	black medic clover	Annual/Perennial
MEDMIN	Forb	<i>Medicago minima</i>	burr medic clover	Annual
MEDSAT	Forb	<i>Medicago sativa</i>	alfalfa	Annual/Perennial
MELALB	Forb	<i>Melilotus alba</i>	white sweetclover	Annual
MELOFF	Forb	<i>Melilotus officinalis</i>	yellow sweetclover	Annual
MIMNUT	Forb	<i>Mimosa nuttallii</i>	catclaw sensitivebriar	Perennial
MINMIC	Forb	<i>Minuartia michauxii</i> var. <i>texana</i>	texas stitchwort	Annual
MOLVER	Forb	<i>Mollugo verticillata</i>	carpetweed	Annual
MONCIT	Forb	<i>Monarda citriodora</i>	lemon beebalm	Annual
MONCLI	Forb	<i>Monarda clinopodioides</i>	basil beebalm	Annual
NASLEU	Grass	<i>Nassella leucotricha</i>	texas wintergrass	Perennial
OPUENG	Subshrub	<i>Opuntia engelmannii</i>	texas pricklypear cactus	Perennial
OXASTR	Forb	<i>Oxalis stricta</i>	sheep sorrel	Perennial
PACOBO	Forb	<i>Packera obovata</i>	roundleaf groundsel	Perennial
PANVIR	Grass	<i>Panicum virgatum</i>	switchgrass	Perennial
PARQUI	Vine	<i>Parthenocissus quinquefolia</i>	virginia creeper	Perennial
PASDIL	Grass	<i>Paspalum dilatatum</i>	dallisgrass	Perennial
PENOKL	Forb	<i>Penstemon oklahomensis</i>	oklahoma penstemon	Perennial
PHYPOL	Forb	<i>Phyllanthus polygonoides</i>	knotted leafflower	Perennial
PLAPAT	Forb	<i>Plantago patagonica</i>	woolly plantain	Annual
PLARUG	Forb	<i>Plantago rugelii</i>	rugels plantain	Perennial
PLAVIR	Forb	<i>Plantago virginica</i>	paleseed plantain	Annual
POAANN	Grass	<i>Poa annua</i>	annual bluegrass	Annual
POAPRA	Grass	<i>Poa pratensis</i>	kentucky bluegrass	Perennial
POLCON	Vine	<i>Polygonum convolvulus</i>	climbing buckwheat	Annual
POLNUT	Forb	<i>Polytaenia nuttallii</i>	nuttal's prairie parsley	Perennial
PSOTEN	Forb	<i>Psoralidium tenuiflorum</i>	slimflower scurfpea	Perennial

Table 4. All plant species detected during grassland monitoring in 2011 and exotic monitoring in 2011 and 2014 at CHIC. Exotic species are highlighted in pink. (continued).

Species Code	Life Form	Scientific Name	Common Name	Primary Duration
QUESHU	Tree	<i>Quercus shumardii</i>	shumard oak	Perennial
QUESTE	Tree	<i>Quercus stellata</i>	post oak	Perennial
RHUCOP	Tree	<i>Rhus copallinum</i>	winged sumac	Perennial
RHUGLA	Tree	<i>Rhus glabra</i>	smooth sumac	Perennial
RHUTRI	Shrub	<i>Rhus trilobata</i>	skunkbush sumac	Perennial
RUBFLA	Forb	<i>Rubus flagellaris</i>	whiplash dewberry	Perennial
RUBTRI	Vine	<i>Rubus trivialis</i>	southern dewberry	Perennial
RUDHIR	Forb	<i>Rudbeckia hirta</i>	blackeyed susan	Annual
RUMCRI	Forb	<i>Rumex crispus</i>	curley dock	Perennial
SABCAM	Forb	<i>Sabatia campestris</i>	meadow pink	Annual
SANODO	Forb	<i>Sanicula odorata</i>	clustered black snakeroot	Perennial
SCHPAN	Grass	<i>Schedonnardus paniculatus</i>	tumblegrass	Perennial
SCHSCO	Grass	<i>Schizachyrium scoparium</i>	little bluestem	Perennial
SIDABU	Forb	<i>Sida abutifolia</i>	prostrate sida	Annual
SILANT	Forb	<i>Silene antirrhina</i>	sleepy catchfly	Annual
SISCAM	Forb	<i>Sisyrinchium campestre</i>	prairie blue-eyed grass	Perennial
SMIBON	Vine	<i>Smilax bona-nox</i>	saw greenbriar	Perennial
SOLCAN	Forb	<i>Solidago canadensis</i>	canada goldenrod	Perennial
SOLCAR	Forb	<i>Solanum carolinense</i>	carolina horsenettle	Perennial
SOLDIM	Forb	<i>Solanum dimidiatum</i>	western horsenettle: torrey nightshade	Perennial
SOLGIG	Forb	<i>Solidago gigantea</i>	giant goldenrod	Perennial
SOLMIS	Forb	<i>Solidago missouriensis</i>	missouri goldenrod	Perennial
SOLULM	Forb	<i>Solidago ulmifolia</i>	elmleaf goldenrod	Perennial
SONASP	Forb	<i>Sonchus asper</i>	spiny sowthistle	Annual
SORHAL	Grass	<i>Sorghum halepense</i>	johnsongrass	Perennial
SORNUT	Grass	<i>Sorghastrum nutans</i>	indiangrass	Perennial
SPOCOM	Grass	<i>Sporobolus compositus</i>	tall dropseed	Perennial
SPOCRY	Grass	<i>Sporobolus cryptandrus</i>	sand dropseed	Perennial
STEMED	Forb	<i>Stellaria media</i>	common chickweed	Annual
STRLEI	Vine	<i>Strophostyles leiosperma</i>	slickseed fuzzybean: slick-seed fuzzy-bean	Annual
SYMERI	Forb	<i>Symphyotrichum ericoides</i>	white heath aster	Perennial
SYMORB	Shrub	<i>Symphoricarpos orbiculatus</i>	buckbrush	Perennial
SYMPRA	Forb	<i>Symphyotrichum praealtum</i>	willowleaf aster	Perennial
TAROFF	Forb	<i>Taraxacum officinale</i>	dandelion	Perennial
TORARV	Forb	<i>Torilis arvensis</i>	spreading hedgeparsley	Annual
TRADUB	Forb	<i>Tragopogon dubius</i>	western salsify	Annual
TRARAM	Forb	<i>Tragia ramosa</i>	branched noseburn	Perennial
TRIDUB	Forb	<i>Trifolium dubium</i>	small hop clover	Annual
TRIFLA	Grass	<i>Tridens flavus</i>	purpletop tridens	Perennial
TRIHOL	Forb	<i>Triodanis holzingeri</i>	wesern venus looking-glass	Annual
TRIHYB	Forb	<i>Trifolium hybridum</i>	alsike clover	Annual

Table 4. All plant species detected during grassland monitoring in 2011 and exotic monitoring in 2011 and 2014 at CHIC. Exotic species are highlighted in pink. (continued).

Species Code	Life Form	Scientific Name	Common Name	Primary Duration
TRIMUT	Grass	<i>Tridens muticus</i>	slim tridens	Perennial
ULMALA	Tree	<i>Ulmus alata</i>	winged elm	Perennial
ULMAME	Tree	<i>Ulmus americana</i>	american elm	Perennial
VERBAL	Forb	<i>Vernonia baldwinii</i>	western ironweed	Perennial
VICSAT	Vine	<i>Vicia sativa</i>	garden vetch	Annual
VULOCT	Grass	<i>Vulpia octoflora</i>	sixweeks fescue	Annual

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 3).

Monitoring occurred May 28-29, 2014 and included areas throughout the Guy Sandy/West Hunting area of the park (Figure 4). These vectors have been previously monitored in late May, 2011. It should be noted that 2011 was the beginning of years of severe to exceptional drought, including early 2014. Data summarized in this report compares the results of 2014 monitoring to that detected in 2011.

Table 5 presents all exotic species detected during both exotic and grassland (secondary transects) monitoring in both years as well as the number and percentage of vector blocks (N=128) and transects (N=11) (Figures 5-7) in which these species were found.

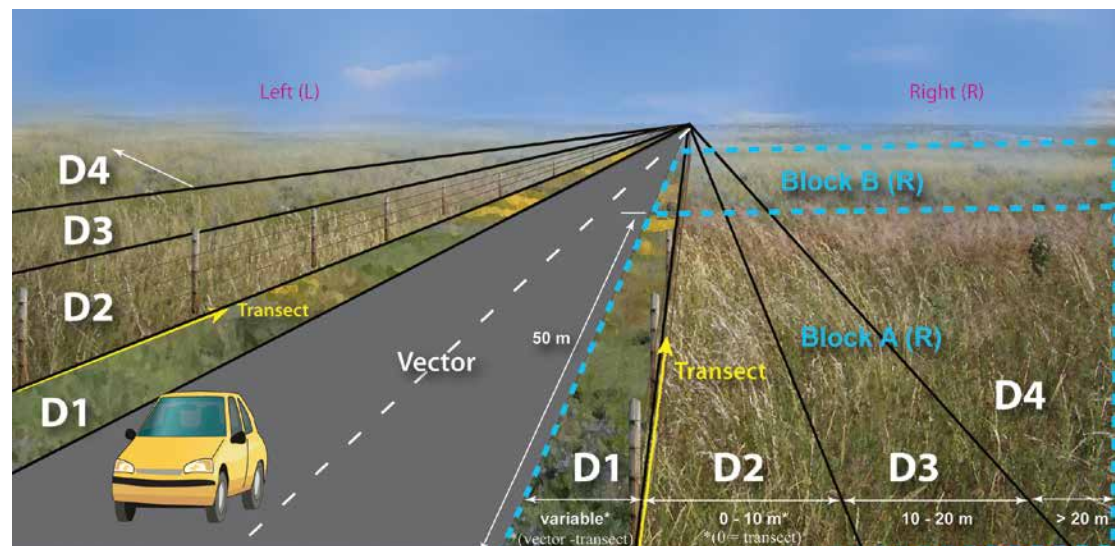


Figure 3. Layout of Vector Blocks and Distance Classes along a vector.

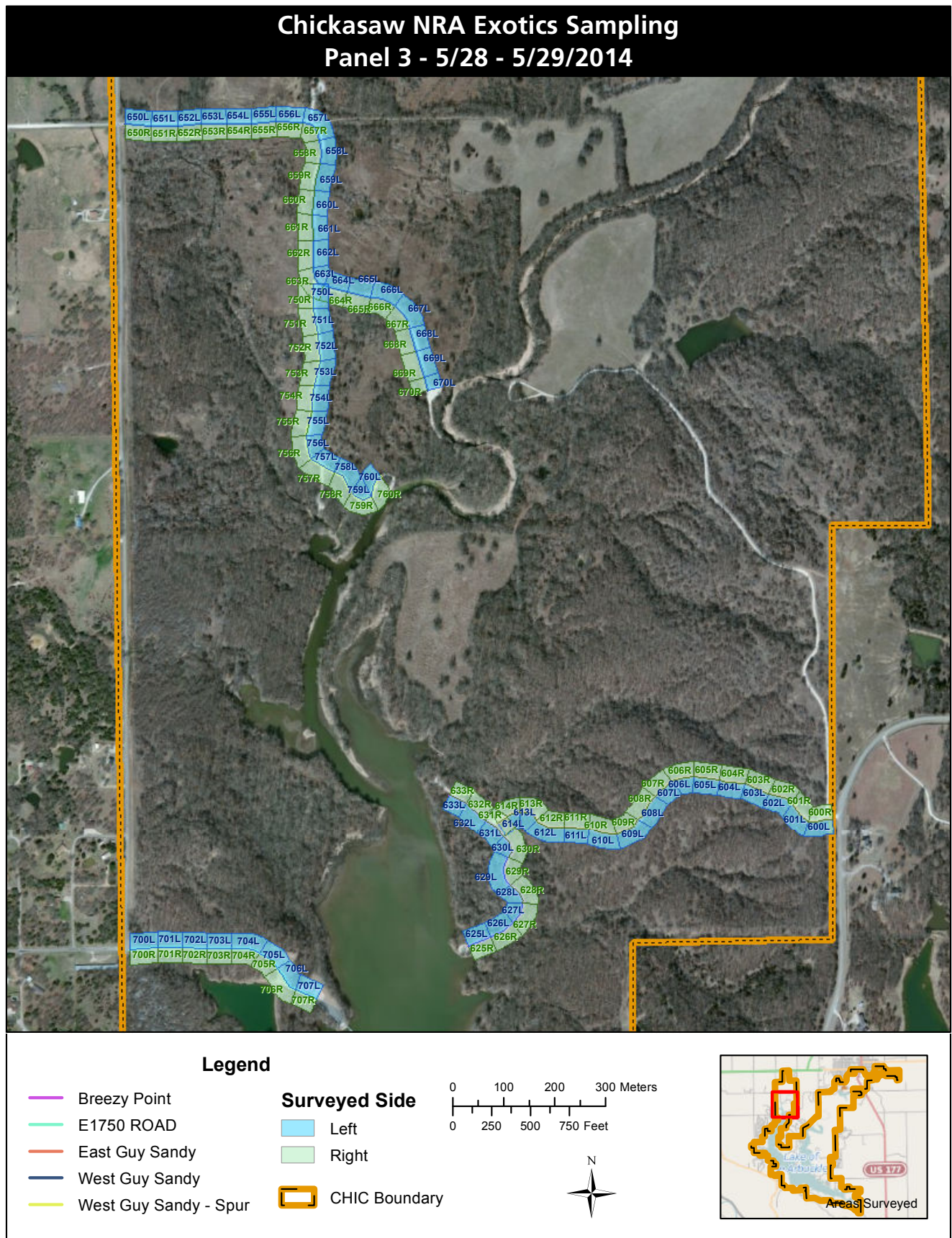


Figure 4. Panel 3 numbered vector blocks monitored at CHIC in both 2011 and 2014.

Table 5. Number and percentage comparison of unit detections of exotic species found in repeated monitoring of vector blocks and permanent transects at CHIC.

Scientific Name	Common Name	2011		2014		2011		2014	
		Primary Blocks (N=128)		Primary Blocks (N=128)		Secondary Transects (N=12)		Secondary Transects (N=11)	
		Total	% Blocks	Total	% Blocks	Total	% Blocks	Total	% Blocks
<i>Achillea millefolium</i>	yarrow	—	—	52	40.63%	—	—	—	—
<i>Aegilops cylindrica</i>	jointed goat grass	—	—	4	3.13%	—	—	—	—
<i>Albizia julibrissin</i>	mimosa	65	50.78%	—	—	—	—	—	—
<i>Bothriochloa ischaemum</i>	kr bluestem	71	55.47%	75	58.59%	2	16.67%	1	9.09%
<i>Bromus catharticus</i>	rescue grass	2	1.56%	33	25.78%	1	8.33%	—	—
<i>Bromus inermis</i>	smooth brome	—	—	—	—	—	—	—	—
<i>Bromus japonicus</i>	Japanese brome	93	72.66%	126	98.44%	3	25.00%	5	45.45%
<i>Bromus lanceolatus</i>	mediterranean brome	—	—	1	0.78%	—	—	—	—
<i>Bromus tectorum</i>	cheatgrass	29	22.66%	45	35.16%	1	8.33%	—	—
<i>Broussonetia papyrifera</i>	paper mulberry	—	—	—	—	1	8.33%	—	—
<i>Chenopodium album</i>	common lambsquarters	—	—	—	—	—	—	1	9.09%
<i>Conium maculatum</i>	poison hemlock	2	1.56%	17	13.28%	—	—	—	—
<i>Coronilla varia</i>	purple crownvetch	1	0.78%	1	0.78%	—	—	—	—
<i>Cynodon dactylon</i>	Bermudagrass	35	27.34%	73	57.03%	1	8.33%	—	—
<i>Daucus carota</i>	queen anne's lace	—	—	10	7.81%	—	—	—	—
<i>Dianthus armeria</i>	deptford pink	—	—	—	—	1	8.33%	—	—
<i>Eragrostis cilianensis</i>	stinkgrass	—	—	—	—	—	—	—	—
<i>Erodium cicutarium</i>	red stem storksbill	—	—	2	1.56%	—	—	—	—
<i>Euphorbia davidii</i>	dauids spurge	—	—	2	1.56%	—	—	—	—
<i>Euphorbia dentata</i>	toothed spurge	4	3.13%	7	5.47%	—	—	1	9.09%
<i>Kochia scoparia</i>	kochia	8	6.25%	—	—	—	—	—	—
<i>Kummerowia stipulacea</i>	korean lespedeza	—	—	17	13.28%	—	—	—	—
<i>Lactuca serriola</i>	prickly lettuce	2	1.56%	96	75.00%	1	8.33%	2	18.18%
<i>Lathyrus hirsutus</i>	singletary pea	5	3.91%	12	9.38%	1	8.33%	1	9.09%
<i>Lespedeza cuneata</i>	sericea lespedeza	46	35.94%	60	46.88%	6	50.00%	2	18.18%
<i>Lolium perenne</i>	perennial ryegrass	18	14.06%	49	38.28%	—	—	1	9.09%
<i>Lonicera japonica</i>	Japanese honeysuckle	36	28.13%	6	4.69%	—	—	1	9.09%
<i>Medicago lupulina</i>	black medic clover	67	52.34%	11	8.59%	—	—	—	—
<i>Medicago minima</i>	burr medic clover	31	24.22%	85	66.41%	—	—	—	—
<i>Medicago sativa</i>	alfalfa	9	7.03%	6	4.69%	—	—	—	—
<i>Melilotus alba</i>	white sweetclover	—	—	19	14.84%	—	—	—	—
<i>Melilotus officinalis</i>	yellow sweetclover	115	89.84%	52	40.63%	1	8.33%	—	—
No Plant	no plant	—	—	—	—	1	8.33%	1	8.33%
<i>Paspalum dilatatum</i>	dallisgrass	—	—	11	8.59%	—	—	—	—
<i>Poa annua</i>	annual bluegrass	—	—	2	1.56%	—	—	—	—
<i>Poa pratensis</i>	kentucky bluegrass	—	—	—	—	—	—	1	9.09%
<i>Polygonum convolvulus</i>	climbing buckwheat	—	—	3	2.34%	—	—	—	—
<i>Rumex crispus</i>	curley dock	—	—	5	3.91%	1	8.33%	1	9.09%
<i>Sida abutilifolia</i>	prostrate sida	—	—	—	—	—	—	1	9.09%
<i>Sonchus asper</i>	spiny sowthistle	—	—	59	46.09%	—	—	—	—
<i>Sorghum halepense</i>	Johnsongrass	85	66.41%	97	75.78%	4	33.33%	4	36.36%
<i>Stellaria media</i>	common chickweed	—	—	—	—	—	—	3	27.27%
<i>Taraxacum officinale</i>	dandelion	4	3.13%	3	2.34%	—	—	—	—
<i>Torilis arvensis</i>	spreading hedgeparsley	35	27.34%	40	31.25%	2	16.67%	—	—
<i>Tragopogon dubius</i>	western salsify	25	19.53%	15	11.72%	—	—	—	—
<i>Trifolium campestre</i>	big-hop field clover	—	—	—	—	2	16.67%	—	—
<i>Trifolium dubium</i>	small hop clover	—	—	—	—	—	—	2	18.18%
<i>Trifolium hybridum</i>	alsike clover	—	—	—	—	—	—	1	9.09%
<i>Vicia sativa</i>	garden vetch	—	—	—	—	—	—	2	18.18%

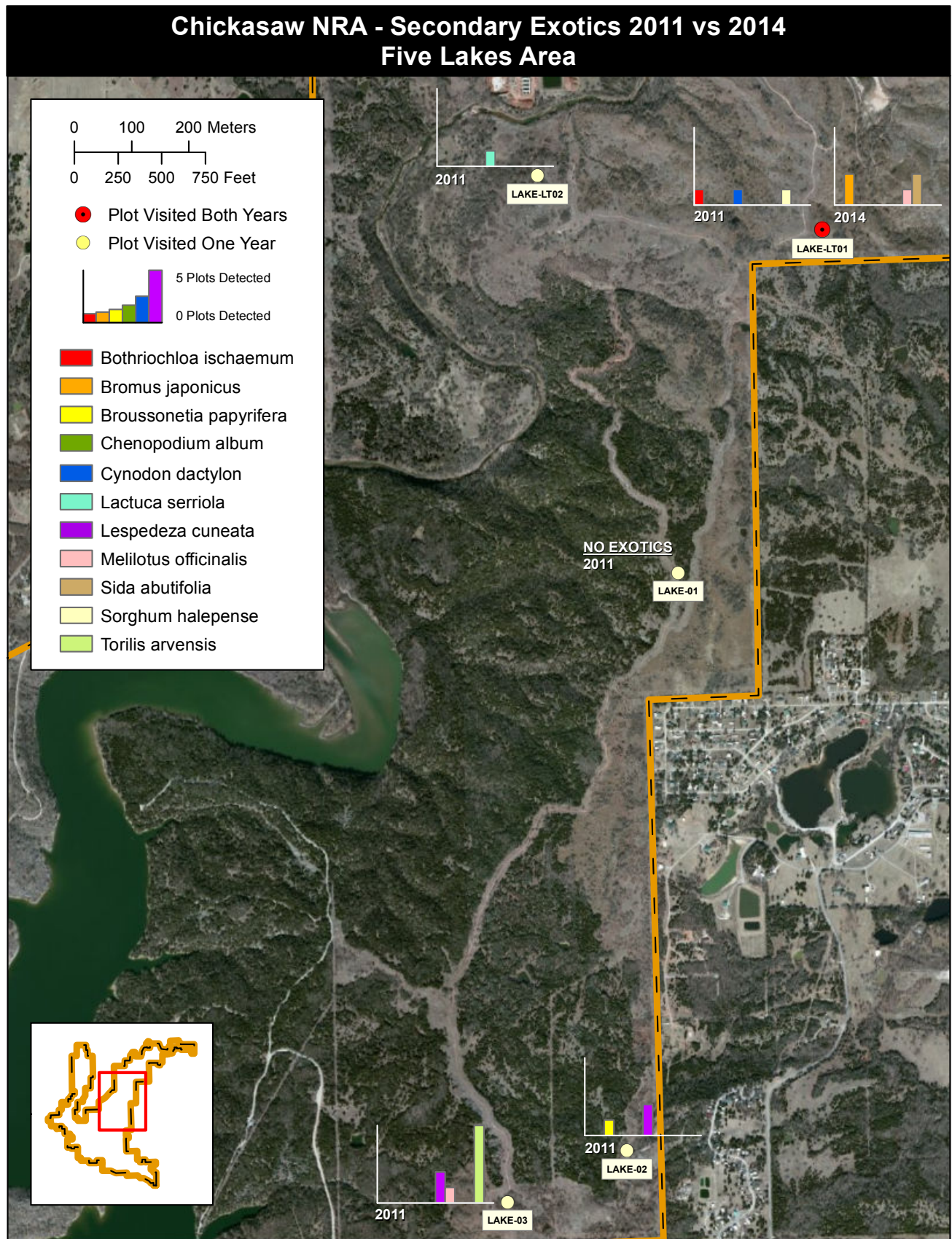


Figure 5. Comparison of exotics detected in 2011 and 2014 Five Lakes area grassland monitoring permanent transects at CHIC.

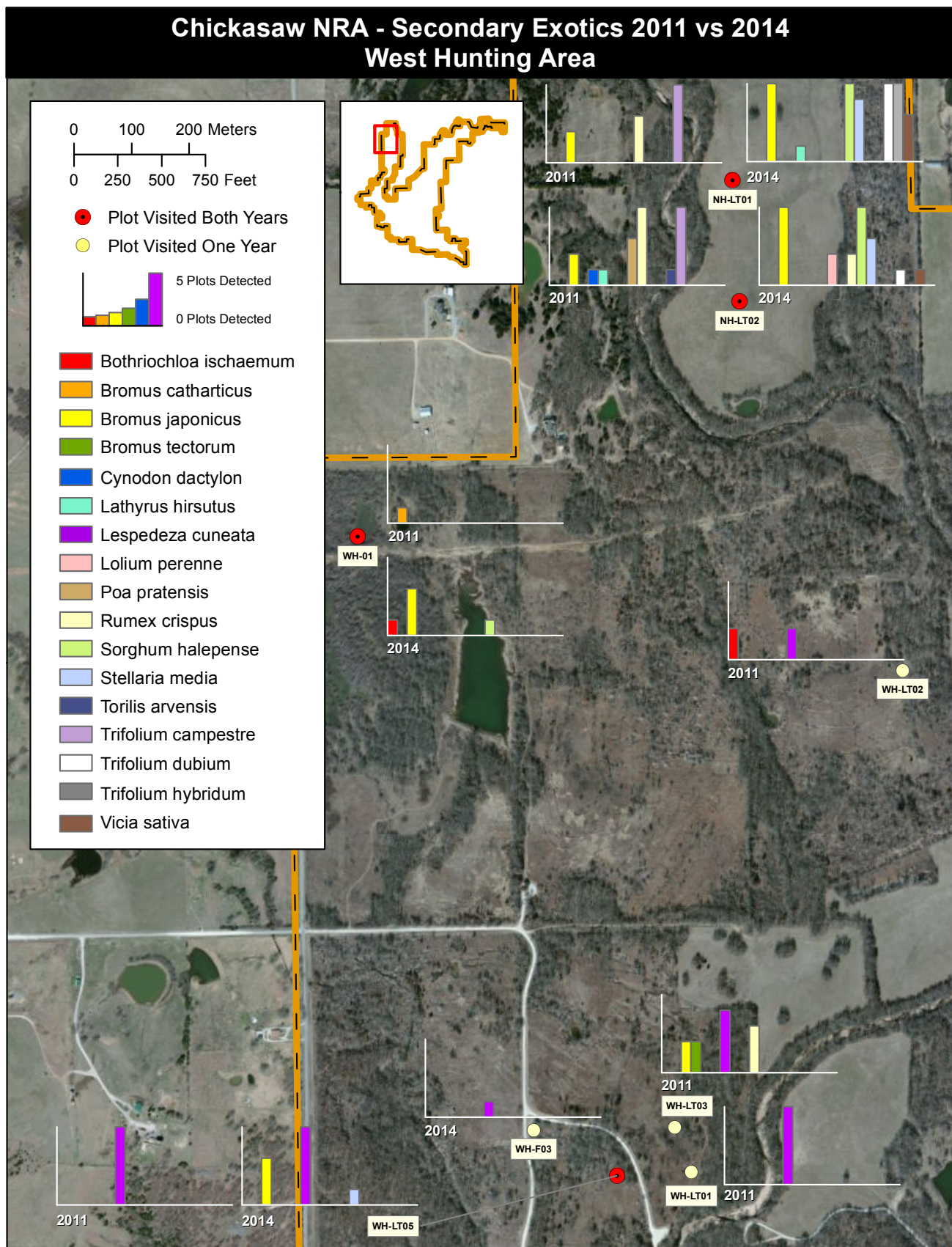


Figure 6. Comparison of exotics detected in 2011 and 2014 West Hunting area grassland monitoring permanent transects at CHIC.

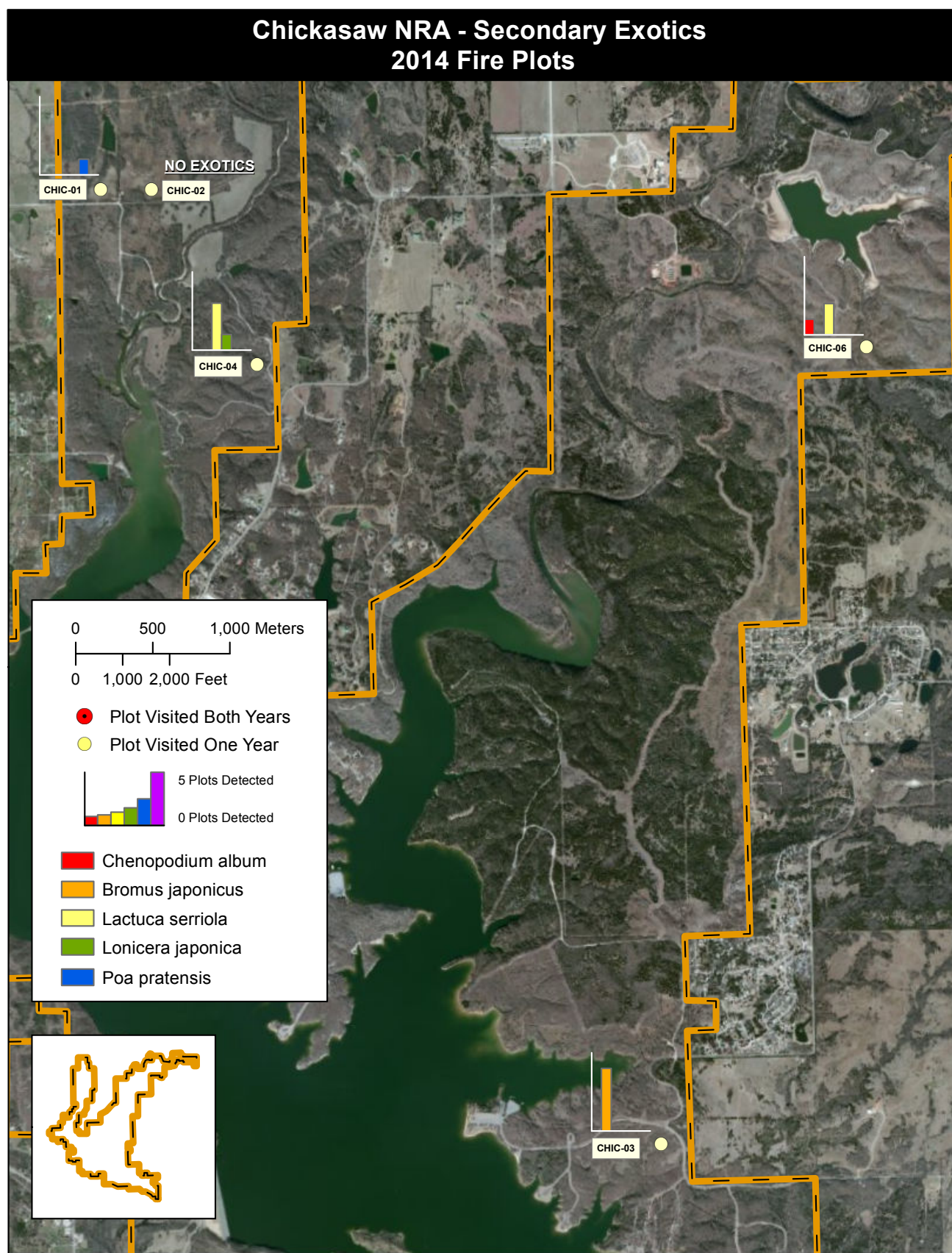


Figure 7. Exotics detected in 2014 at fire monitoring permanent transects at CHIC.

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 6 is a comparison of the number of blocks containing that density in 2011 and 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 6. A comparison of the number of blocks containing a given density in 2011 and 2014 in two Distance Classes.

Species Code	Scientific Name	Common Name	Density Code	Distance Class 1			Distance Class 2		
				2011	Same 2014	New 2014	2011	Same 2014	New 2014
ACHMIL	<i>Achillea millefolium</i>	yarrow	1		14		16		
			2		31		24		
AEGCYL	<i>Aegilops cylindrica</i>	jointed goat grass	1		2		1		
			2		1		2		
ALBJUL	<i>Albizia julibrissin</i>	mimosa	1	16		8			
			2	41		38			
			3	2					
BOTISC	<i>Bothriochloa ischaemum</i>	kr bluestem	1	3	8	2	4		
			2	64	62	52	36		
			3	4	4	5	3		
BROCAT	<i>Bromus catharticus</i>	rescue grass	1	2	15		1		
			2		16		4		
BROJAP	<i>Bromus japonicus</i>	Japanese brome	1	11	2	2	9		
			2	77	110	40	77		
			3	5	14	4	6		
BROLAN	<i>Bromus lanceolatus</i>	mediteranean brome					1		
BROTEC	<i>Bromus tectorum</i>	cheatgrass	1	4	7	2	3		
			2	18	32	13	23		
			3	6	1	5			
CONMAC	<i>Conium maculatum</i>	poison hemlock	1	1	4	1	9		
			2				7		
CORVAR	<i>Coronilla varia</i>	purple crownvetch	1	1					
			2		1		1		
CYNDAC	<i>Cynodon dactylon</i>	Bermudagrass	1		1		1		
			2	28	69	18	19		
			3	7	3	5			
			4				1		
DAUCAR	<i>Daucus carota</i>	queen anne's lace	1		8		2		
			2		2				
EROCIC	<i>Erodium cicutarium</i>	red stem storksbill	1		2				
EUPDAV	<i>Euphorbia davidii</i>	davids spurge	1		2				
EUPDEN	<i>Euphorbia dentata</i>	toothed spurge	1	3	4	1			
			2		3				
KOCSO	<i>Kochia scoparia</i>	kochia	1	3		4			
			2	2		3			

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	Same 2014	New 2014	2011	Same 2014	New 2014
KUMSTI	<i>Kummerowia stipulacea</i>	korean lespedeza	1		10				
			2		7		1		
LACSER	<i>Lactuca serriola</i>	prickly lettuce	1		22	1	21		
			2		71	1	39		
LATHIR	<i>Lathyrus hirsutus</i>	singletary pea	1	1	4	1	1		
			2	3	8	2	3		
LESCUN	<i>Lespedeza cuneata</i>	sericea lespedeza	1	3	11	5	7		
			2	36	40	36	48		
			3	1		4			
LOLPER	<i>Lolium perenne</i>	perennial ryegrass	1	4	12	1	1		
			2	13	37	5	4		
LONJAP	<i>Lonicera japonica</i>	Japanese honeysuckle	1	5	1	5	5		
			2	23		30	1		
MEDLUP	<i>Medicago lupulina</i>	black medic clover	1	2	3	2			
			2	58	8	21	2		
			3	7		5			
MEDMIN	<i>Medicago minima</i>	burr medic clover	1	3	3		1		
			2	21	82	6	17		
			3	7		5			
MEDSAT	<i>Medicago sativa</i>	alfalfa	1	3	5	1	2		
			2	6		1	1		
MELALB	<i>Melilotus officinalis</i>	white sweetclover	1		4		3		
			2		13		7		
MELOFF	<i>Melilotus officinalis</i>	yellow sweetclover	1	47	23	13	7		
			2	60	26	39	20		
			3	4					
PASDIL	<i>Paspalum dilatatum</i>	dallisgrass	1		1				
			2		10		3		
POAANN	<i>Poa annua</i>	annual bluegrass	1		1		1		
			2		1				
POLCON	<i>Polygonum convolvulus</i>	climbing buckwheat	1		2		1		
RUMCRI	<i>Rumex crispus</i>	curley dock	1		2		2		
			2		1		1		
SONASP	<i>Sonchus asper</i>	spiny sowthistle	1		25		33		
			2		16		19		
SORHAL	<i>Sorghum halepense</i>	Johnsongrass	1	25	20	7	5		
			2	44	70	55	73		
			3		4	10	5		
TAROFF	<i>Taraxacum officinale</i>	dandelion	1	2	2				
			2	2	1	2	1		
TORARV	<i>Torilis arvensis</i>	spreading hedgeparsley	1	10	20	8	8		
			2	12	15	15	21		
			3	2		1			
TRADUB	<i>Tragopogon dubius</i>	western salsify	1	13	7	2	3		
			2	8	1	7	4		

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

Table 7 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.

Table 7. 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
600L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	1	0	0	2	2	0	0
600L	<i>Bromus japonicus</i>	Japanese brome	1	0	0	0	2	2	0	0
600L	<i>Daucus carota</i>	queen anne's lace					1	0	0	0
600L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
600L	<i>Lespedeza cuneata</i>	sericea lespedeza	1	1	0	0				
600L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
600L	<i>Melilotus officinalis</i>	white sweetclover					1	0	0	0
600L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0	2	0	0	0
600L	<i>Sorghum halepense</i>	Johnsongrass					1	2	0	0
600L	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
600R	<i>Bothriochloa ischaemum</i>	kr bluestem	3	2	2	X	2	2	0	0
600R	<i>Bromus japonicus</i>	Japanese brome	2	0	0	X	2	0	0	0
600R	<i>Bromus tectorum</i>	cheatgrass	2	0	0	X	3	0	0	0
600R	<i>Conium maculatum</i>	poison hemlock					0	1	0	0
600R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
600R	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
600R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	0
600R	<i>Medicago minima</i>	burr medic clover					2	0	0	0
600R	<i>Melilotus officinalis</i>	yellow sweetclover					2	2	0	0
601L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	1	0	0	2	0	0	0
601L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
601L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
601L	<i>Lespedeza cuneata</i>	sericea lespedeza	0	2	0	0				
601L	<i>Medicago lupulina</i>	black medic clover	2	1	0	0				
601L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
601L	<i>Melilotus officinalis</i>	white sweetclover					1	0	0	0
601L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0	1	0	0	0
601L	<i>Sonchus asper</i>	spiny sowthistle					2	1	0	0
601L	<i>Sorghum halepense</i>	Johnsongrass					2	2	0	0
601R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	0	X	2	2	0	0
601R	<i>Bromus catharticus</i>	rescue grass					1	0	0	0
601R	<i>Bromus japonicus</i>	Japanese brome	2	0	0	X	2	0	0	0
601R	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
601R	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	X	2	2	0	0
601R	<i>Medicago lupulina</i>	black medic clover	2	0	0	X				
601R	<i>Medicago minima</i>	burr medic clover					2	0	0	0
601R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	X				
601R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	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 7. Comparison of 2011 vs. 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
602L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
602L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
602L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0				
602L	<i>Medicago lupulina</i>	black medic clover	2	2	0	0				
602L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
602L	<i>Melilotus officinalis</i>	white sweetclover					2	0	0	0
602L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
602L	<i>Sonchus asper</i>	spiny sowthistle					1	0	0	0
602R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	0	X	2	2	X	X
602R	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
602R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X
602R	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	X	2	2	X	X
602R	<i>Medicago sativa</i>	alfalfa					0	2	X	X
602R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	1	X	X
602R	<i>Sonchus asper</i>	spiny sowthistle					1	0	X	X
603L	<i>Bromus japonicus</i>	Japanese brome					2	1	0	0
603L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
603L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0				
603L	<i>Medicago lupulina</i>	black medic clover	2	2	0	0				
603L	<i>Melilotus officinalis</i>	white sweetclover					2	2	0	0
603L	<i>Melilotus officinalis</i>	yellow sweetclover	1	1	0	0				
603L	<i>Sonchus asper</i>	spiny sowthistle					2	2	0	0
603R	<i>Aegilops cylindrica</i>	jointed goat grass					1	0	X	X
603R	<i>Bothriochloa ischaemum</i>	kr bluestem					2	2	X	X
603R	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
603R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
603R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
603R	<i>Lolium perenne</i>	perennial ryegrass					1	0	X	X
603R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
603R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	1	X	X
603R	<i>Sonchus asper</i>	spiny sowthistle					0	2	X	X
604L	<i>Achillea millefolium</i>	yarrow					1	0	0	0
604L	<i>Bromus japonicus</i>	Japanese brome	1	0	0	0	2	0	0	0
604L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0				
604L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
604L	<i>Melilotus officinalis</i>	white sweetclover					2	2	0	0
604L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
604L	<i>Sonchus asper</i>	spiny sowthistle					2	1	0	0
604R	<i>Bothriochloa ischaemum</i>	kr bluestem					2	0	X	X
604R	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
604R	<i>Bromus tectorum</i>	cheatgrass					2	2	X	X
604R	<i>Lactuca serriola</i>	prickly lettuce					1	0	X	X

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 7. Comparison of 2011 vs. 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
604R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	0	X	X
604R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
604R	<i>Medicago lupulina</i>	black medic clover	2	0	0	X				
604R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
604R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	2	X	X
604R	<i>Sonchus asper</i>	spiny sowthistle					2	2	X	X
605L	<i>Bromus japonicus</i>	Japanese brome	1	0	0	0	2	0	0	0
605L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
605L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	2	0				
605L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	0				
605L	<i>Medicago lupulina</i>	black medic clover	2	1	0	0				
605L	<i>Melilotus officinalis</i>	white sweetclover					2	0	0	0
605L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
605L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
605L	<i>Tragopogon dubius</i>	western salsify					0	2	0	0
605R	<i>Bothriochloa ischaemum</i>	kr bluestem					2	2	X	X
605R	<i>Bromus japonicus</i>	Japanese brome					2	0	X	X
605R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
605R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
605R	<i>Medicago lupulina</i>	black medic clover	2	2	0	X				
605R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	2	X	X
605R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	1	X	X
606L	<i>Bromus japonicus</i>	Japanese brome					1	0	0	0
606L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
606L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	1	X	X				
606L	<i>Melilotus officinalis</i>	white sweetclover					2	0	0	0
606L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X				
606L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
606R	<i>Bothriochloa ischaemum</i>	kr bluestem					2	1	X	X
606R	<i>Bromus japonicus</i>	Japanese brome	1	0	0	X	2	1	X	X
606R	<i>Bromus tectorum</i>	cheatgrass					2	1	X	X
606R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
606R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
606R	<i>Medicago lupulina</i>	black medic clover	2	2	0	X				
606R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	2	X	X
606R	<i>Sorghum halepense</i>	Johnsongrass	1	0	0	X	1	0	X	X
607L	<i>Achillea millefolium</i>	yarrow					2	2	0	0
607L	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	0	0	0
607L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	1	X	X				
607L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
607L	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
607L	<i>Melilotus officinalis</i>	white sweetclover					1	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 7. Comparison of 2011 vs. 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
607L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X				
607L	<i>Sonchus asper</i>	spiny sowthistle					2	2	0	0
607L	<i>Sorghum halepense</i>	Johnsongrass	1	0	X	X	1	0	0	0
607R	<i>Bothriochloa ischaemum</i>	kr bluestem					0	1	X	X
607R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	X	2	0	X	X
607R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
607R	<i>Lactuca serriola</i>	prickly lettuce					2	1	X	X
607R	<i>Lespedeza cuneata</i>	sericea lespedeza					1	2	X	X
607R	<i>Lolium perenne</i>	perennial ryegrass					1	0	X	X
607R	<i>Medicago minima</i>	burr medic clover					1	0	X	X
607R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	2	X	X
607R	<i>Sonchus asper</i>	spiny sowthistle					1	1	X	X
608L	<i>Achillea millefolium</i>	yarrow					2	0	0	0
608L	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	0	0	0
608L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X				
608L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
608L	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
608L	<i>Melilotus officinalis</i>	white sweetclover					2	0	0	0
608L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	X	X	1	1	0	0
608L	<i>Sonchus asper</i>	spiny sowthistle					2	2	0	0
608L	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	0	0
608R	<i>Bothriochloa ischaemum</i>	kr bluestem					1	0	X	X
608R	<i>Bromus japonicus</i>	Japanese brome					2	1	X	X
608R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
608R	<i>Lactuca serriola</i>	prickly lettuce					2	1	X	X
608R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
608R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	2	X	X
608R	<i>Sonchus asper</i>	spiny sowthistle					0	2	X	X
608R	<i>Sorghum halepense</i>	Johnsongrass					2	0	X	X
608R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	X	X
609L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
609L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
609L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X				
609L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	2	X	X				
609L	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
609L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X	2	0	0	0
609L	<i>Sonchus asper</i>	spiny sowthistle					2	2	0	0
609L	<i>Sorghum halepense</i>	Johnsongrass					2	0	0	0
609R	<i>Bromus japonicus</i>	Japanese brome					2	0	X	X
609R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
609R	<i>Lactuca serriola</i>	prickly lettuce					1	1	X	X
609R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X

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 7. Comparison of 2011 vs. 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
609R	<i>Medicago lupulina</i>	black medic clover	2	0	0	X				
609R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
609R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	X	2	2	X	X
609R	<i>Sonchus asper</i>	spiny sowthistle					1	2	X	X
610L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
610L	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	0	0
610L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
610L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X	2	0	0	0
610L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
610L	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
610L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
610L	<i>Melilotus officinalis</i>	white sweetclover					2	1	0	0
610L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X				
610L	<i>Sonchus asper</i>	spiny sowthistle					2	1	0	0
610L	<i>Sorghum halepense</i>	Johnsongrass					2	0	0	0
610R	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
610R	<i>Bromus japonicus</i>	Japanese brome	1	1	0	X	2	2	X	X
610R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
610R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
610R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	1	X	X
610R	<i>Medicago lupulina</i>	black medic clover					2	0	X	X
610R	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X	2	2	X	X
611L	<i>Bromus japonicus</i>	Japanese brome	1	0	0	X	2	0	0	0
611L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	X	2	0	0	0
611L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	X				
611L	<i>Medicago lupulina</i>	black medic clover	2	0	0	X				
611L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
611L	<i>Melilotus officinalis</i>	white sweetclover					2	1	0	0
611L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X				
611L	<i>Sonchus asper</i>	spiny sowthistle					2	2	0	0
611R	<i>Bromus catharticus</i>	rescue grass					1	0	X	X
611R	<i>Bromus japonicus</i>	Japanese brome					2	0	X	X
611R	<i>Bromus tectorum</i>	cheatgrass					2	1	X	X
611R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	X	X
611R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
611R	<i>Lolium perenne</i>	perennial ryegrass					1	0	X	X
611R	<i>Medicago lupulina</i>	black medic clover	2	0	0	X	1	0	X	X
611R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
611R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	X	2	2	X	X
612L	<i>Achillea millefolium</i>	yarrow					2	0	0	0
612L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	0	0	0
612L	<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 7. Comparison of 2011 vs. 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
612L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0				
612L	<i>Lolium perenne</i>	perennial ryegrass					1	0	0	0
612L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	2	0	0				
612L	<i>Melilotus officinalis</i>	white sweetclover					2	0	0	0
612L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
612L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
612L	<i>Sorghum halepense</i>	Johnsongrass	1	2	2	0	2	2	2	2
612R	<i>Bromus japonicus</i>	Japanese brome					2	0	X	X
612R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
612R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
612R	<i>Lespedeza cuneata</i>	sericea lespedeza					1	1	X	X
612R	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
612R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
612R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X	2	2	X	X
612R	<i>Sonchus asper</i>	spiny sowthistle					1	0	X	X
612R	<i>Sorghum halepense</i>	Johnsongrass	2	0	X	X				
612R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	X	X
613L	<i>Achillea millefolium</i>	yarrow					1	0	0	0
613L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	0	0	0
613L	<i>Euphorbia dentata</i>	toothed spurge					2	0	0	0
613L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
613L	<i>Lespedeza cuneata</i>	sericea lespedeza	0	2	0	0				
613L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
613L	<i>Melilotus officinalis</i>	white sweetclover					2	2	0	0
613L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0	2	2	2	0
613L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
613L	<i>Sorghum halepense</i>	Johnsongrass	0	0	2	3	1	2	2	2
613R	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
613R	<i>Bromus tectorum</i>	cheatgrass					1	0	X	X
613R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
613R	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
613R	<i>Medicago sativa</i>	alfalfa	1	0	X	X				
613R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	X	X	2	2	X	X
613R	<i>Sorghum halepense</i>	Johnsongrass	2	0	X	X				
614L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	2	0				
614L	<i>Bromus japonicus</i>	Japanese brome	1	0	0	0	2	2	0	0
614L	<i>Euphorbia dentata</i>	toothed spurge					2	0	0	0
614L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
614L	<i>Lespedeza cuneata</i>	sericea lespedeza	0	2	2	0				
614L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	0				
614L	<i>Medicago lupulina</i>	black medic clover	1	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 7. Comparison of 2011 vs. 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
614L	<i>Melilotus officinalis</i>	white sweetclover					2	2	0	0
614L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	0	0				
614L	<i>Sorghum halepense</i>	Johnsongrass	1	2	0	0	2	2	0	0
614R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	0	X	X
614R	<i>Bromus japonicus</i>	Japanese brome					2	0	X	X
614R	<i>Conium maculatum</i>	poison hemlock					0	2	X	X
614R	<i>Lactuca serriola</i>	prickly lettuce					0	2	X	X
614R	<i>Lolium perenne</i>	perennial ryegrass					1	0	X	X
614R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	X				
614R	<i>Medicago minima</i>	burr medic clover					1	0	X	X
614R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	2	2	X	X
614R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	X	2	2	X	X
625L	<i>Achillea millefolium</i>	yarrow					0	2	2	0
625L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
625L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
625L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
625L	<i>Lespedeza cuneata</i>	sericea lespedeza	0	2	0	0	2	2	0	0
625L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	2	0	0				
625L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
625L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
625L	<i>Melilotus officinalis</i>	yellow sweetclover	1	1	0	0	2	1	0	0
625L	<i>Sorghum halepense</i>	Johnsongrass	1	2	3	3	3	3	2	2
625L	<i>Torilis arvensis</i>	spreading hedgeparsley					1	2	2	0
625L	<i>Tragopogon dubius</i>	western salsify	0	1	0	0				
625R	<i>Bromus japonicus</i>	Japanese brome					2	0	0	X
625R	<i>Bromus tectorum</i>	cheatgrass					2	2	0	X
625R	<i>Lactuca serriola</i>	prickly lettuce					2	2	1	X
625R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	0	0	X
625R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	X
625R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	X				
625R	<i>Medicago lupulina</i>	black medic clover	2	0	0	X	2	0	0	X
625R	<i>Medicago minima</i>	burr medic clover					2	0	0	X
625R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	X				
625R	<i>Rumex crispus</i>	curley dock					0	1	0	X
625R	<i>Sorghum halepense</i>	Johnsongrass	2	0	0	X	2	2	2	X
625R	<i>Taraxacum officinale</i>	dandelion	1	0	0	X				
625R	<i>Torilis arvensis</i>	spreading hedgeparsley					2	2	0	X
626L	<i>Achillea millefolium</i>	yarrow					2	2	2	2
626L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	2	2	0
626L	<i>Bromus tectorum</i>	cheatgrass	1	0	0	0				
626L	<i>Conium maculatum</i>	poison hemlock	1	0	0	0				
626L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
626L	<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 7. Comparison of 2011 vs. 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
626L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0	2	2	0	0
626L	<i>Lolium perenne</i>	perennial ryegrass	1	0	0	0	2	0	0	0
626L	<i>Medicago lupulina</i>	black medic clover	2	2	0	0				
626L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
626L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0	2	2	0	0
626L	<i>Sorghum halepense</i>	Johnsongrass	2	2	3	3	3	3	2	0
626L	<i>Tragopogon dubius</i>	western salsify	2	0	0	0				
626R	<i>Bromus catharticus</i>	rescue grass					2	0	1	X
626R	<i>Bromus japonicus</i>	Japanese brome					2	0	0	X
626R	<i>Bromus tectorum</i>	cheatgrass					2	0	0	X
626R	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	X
626R	<i>Lathyrus hirsutus</i>	singletary pea					1	0	0	X
626R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	0	X
626R	<i>Lolium perenne</i>	perennial ryegrass					2	2	0	X
626R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	X				
626R	<i>Medicago lupulina</i>	black medic clover					2	2	0	X
626R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	1	1	0	X
626R	<i>Sorghum halepense</i>	Johnsongrass					2	2	2	X
626R	<i>Taraxacum officinale</i>	dandelion	2	2	0	X	1	0	0	X
626R	<i>Torilis arvensis</i>	spreading hedgeparsley					2	2	1	X
626R	<i>Tragopogon dubius</i>	western salsify					1	0	0	0
627L	<i>Achillea millefolium</i>	yarrow					1	1	2	2
627L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	1	0	0	0
627L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	3	2	0	0
627L	<i>Bromus tectorum</i>	cheatgrass	1	0	0	0				
627L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
627L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	3	3	0	1	2	0	0
627L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	2	0	0				
627L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
627L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0	2	0	0	0
627L	<i>Paspalum dilatatum</i>	dallisgrass					2	0	0	0
627L	<i>Sorghum halepense</i>	Johnsongrass	1	2	3	3	2	2	2	0
627L	<i>Torilis arvensis</i>	spreading hedgeparsley					2	0	0	0
627L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
627R	<i>Achillea millefolium</i>	yarrow					1	1	0	X
627R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	0	X
627R	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	X
627R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	0	X
627R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	X
627R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
627R	<i>Medicago lupulina</i>	black medic clover	2	0	X	X	2	0	0	X
627R	<i>Medicago minima</i>	burr medic clover					1	0	0	X

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 7. Comparison of 2011 vs. 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>Medicago sativa</i>	alfalfa					1	0	0	X
627R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	X	X	2	0	0	0
627R	<i>Sorghum halepense</i>	Johnsongrass					2	2	0	X
627R	<i>Torilis arvensis</i>	spreading hedgeparsley					2	1	0	X
627R	<i>Tragopogon dubius</i>	western salsify					1	0	0	X
628L	<i>Achillea millefolium</i>	yarrow					1	1	2	2
628L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	3	3	2	0
628L	<i>Conium maculatum</i>	poison hemlock	0	1	0	0				
628L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
628L	<i>Daucus carota</i>	queen anne's lace					2	0	0	0
628L	<i>Euphorbia dentata</i>	toothed spurge	1	0	0	0				
628L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
628L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	2	0	2	2	0	0
628L	<i>Lolium perenne</i>	perennial ryegrass	1	0	0	0	2	2	0	0
628L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	2	0	0				
628L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
628L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
628L	<i>Sonchus asper</i>	spiny sowthistle					1	0	0	0
628L	<i>Sorghum halepense</i>	Johnsongrass	1	2	2	0				
628L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
628R	<i>Achillea millefolium</i>	yarrow					2	2	0	X
628R	<i>Bromus catharticus</i>	rescue grass					2	0	0	X
628R	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	2	0	X
628R	<i>Bromus tectorum</i>	cheatgrass					1	0	0	X
628R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	X
628R	<i>Lathyrus hirsutus</i>	singletary pea					2	0	0	X
628R	<i>Lespedeza cuneata</i>	sericea lespedeza					1	2	1	X
628R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
628R	<i>Medicago lupulina</i>	black medic clover	2	0	X	X	1	0	0	X
628R	<i>Medicago minima</i>	burr medic clover					2	0	0	X
628R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	X	X	2	0	0	X
628R	<i>Poa annua</i>	annual bluegrass					1	0	0	X
628R	<i>Sorghum halepense</i>	Johnsongrass	2	0	X	X				
628R	<i>Taraxacum officinale</i>	dandelion	2	2	X	X				
628R	<i>Torilis arvensis</i>	spreading hedgeparsley					2	2	0	X
628R	<i>Tragopogon dubius</i>	western salsify					1	0	0	X
629L	<i>Achillea millefolium</i>	yarrow					1	1	2	2
629L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
629L	<i>Daucus carota</i>	queen anne's lace					2	0	0	0
629L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
629L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	2	0	2	2	0	0
629L	<i>Lolium perenne</i>	perennial ryegrass					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 7. Comparison of 2011 vs. 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
629L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
629L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
629L	<i>Medicago sativa</i>	alfalfa	1	0	0	0				
629L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0				
629L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
629L	<i>Sorghum halepense</i>	Johnsongrass	1	2	2	0	2	2	2	2
629L	<i>Tragopogon dubius</i>	western salsify	1	1	0	0				
629R	<i>Bromus lanceolatus</i>	mediteranean brome					0	2	X	X
629R	<i>Achillea millefolium</i>	yarrow					1	1	X	X
629R	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
629R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
629R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
629R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X
629R	<i>Lathyrus hirsutus</i>	singletary pea	2	2	X	X	2	2	X	X
629R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
629R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
629R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
629R	<i>Medicago lupulina</i>	black medic clover	2	0	X	X	2	0	X	X
629R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
629R	<i>Rumex crispus</i>	curley dock					2	0	X	X
629R	<i>Sonchus asper</i>	spiny sowthistle					0	2	X	X
629R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	0	X	X
629R	<i>Torilis arvensis</i>	spreading hedgeparsley					2	0	X	X
629R	<i>Tragopogon dubius</i>	western salsify					0	2	X	X
630L	<i>Achillea millefolium</i>	yarrow					2	1	2	2
630L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	0	0	2	0	0	0
630L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	3	2	2	0
630L	<i>Coronilla varia</i>	purple crownvetch	1	0	0	0	2	2	0	0
630L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
630L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
630L	<i>Lathyrus hirsutus</i>	singletary pea					1	0	0	0
630L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0	2	2	0	0
630L	<i>Lolium perenne</i>	perennial ryegrass					1	0	0	0
630L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
630L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
630L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
630L	<i>Sorghum halepense</i>	Johnsongrass	1	2	2	2	2	2	2	2
630L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
630R	<i>Achillea millefolium</i>	yarrow					2	2	X	X
630R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	0	X	X
630R	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	2	X	X
630R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X

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 7. Comparison of 2011 vs. 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
630R	<i>Lathyrus hirsutus</i>	singletary pea	2	0	X	X	2	2	X	X
630R	<i>Lespedeza cuneata</i>	sericea lespedeza					0	2	X	X
630R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
630R	<i>Medicago lupulina</i>	black medic clover					2	0	X	X
630R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
630R	<i>Medicago sativa</i>	alfalfa	2	0	X	X				
630R	<i>Rumex crispus</i>	curley dock					1	0	X	X
630R	<i>Sonchus asper</i>	spiny sowthistle					2	2	X	X
630R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X				
630R	<i>Tragopogon dubius</i>	western salsify					1	1	X	X
631L	<i>Achillea millefolium</i>	yarrow					2	2	2	2
631L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0				
631L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	3	3	2	0
631L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
631L	<i>Lathyrus hirsutus</i>	singletary pea					2	0	0	0
631L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0				
631L	<i>Lolium perenne</i>	perennial ryegrass					1	0	0	0
631L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	0				
631L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
631L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
631L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0	2	0	0	0
631L	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	0
631L	<i>Sorghum halepense</i>	Johnsongrass					2	2	2	2
631L	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	0	0
631R	<i>Achillea millefolium</i>	yarrow					2	2	0	X
631R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	0	0	X
631R	<i>Bromus japonicus</i>	Japanese brome	2	0	0	X	2	2	0	X
631R	<i>Bromus tectorum</i>	cheatgrass					2	0	0	0
631R	<i>Conium maculatum</i>	poison hemlock					0	1	0	X
631R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	X
631R	<i>Kummerowia stipulacea</i>	korean lespedeza					2	0	0	X
631R	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	X
631R	<i>Lathyrus hirsutus</i>	singletary pea	2	2	0	X				
631R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	0	X
631R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	X
631R	<i>Medicago lupulina</i>	black medic clover					2	0	0	X
631R	<i>Medicago minima</i>	burr medic clover					2	0	0	X
631R	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	X
631R	<i>Tragopogon dubius</i>	western salsify					0	1	0	X
632L	<i>Achillea millefolium</i>	yarrow					2	2	2	2
632L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	0	0	0
632L	<i>Bromus japonicus</i>	Japanese brome	2	0	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 7. Comparison of 2011 vs. 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
632L	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
632L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
632L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0	2	2	0	0
632L	<i>Lolium perenne</i>	perennial ryegrass					1	0	0	0
632L	<i>Medicago minima</i>	burr medic clover	1	0	0	0				
632L	<i>Melilotus officinalis</i>	yellow sweetclover	1	1	0	0				
632L	<i>Sorghum halepense</i>	Johnsongrass	0	1	0	0	2	2	2	2
632R	<i>Achillea millefolium</i>	yarrow					2	0	0	X
632R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	2	0	X
632R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	X	2	2	0	X
632R	<i>Bromus tectorum</i>	cheatgrass	2	0	0	X				
632R	<i>Conium maculatum</i>	poison hemlock					1	1	0	X
632R	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	X
632R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	0	X
632R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	X
632R	<i>Medicago minima</i>	burr medic clover					2	1	0	X
632R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	X	1	2	0	X
632R	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	X
632R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	X	1	2	0	X
632R	<i>Tragopogon dubius</i>	western salsify					1	0	0	X
633L	<i>Achillea millefolium</i>	yarrow					2	2	2	2
633L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	0	0	0
633L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	3	3	2	0
633L	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
633L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
633L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0	2	2	0	0
633L	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	0
633L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	0				
633L	<i>Medicago minima</i>	burr medic clover	1	0	0	0	2	0	0	0
633L	<i>Melilotus officinalis</i>	yellow sweetclover	1	1	0	0				
633L	<i>Sorghum halepense</i>	Johnsongrass					2	2	0	0
633L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
633R	<i>Achillea millefolium</i>	yarrow					2	2	0	X
633R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X				
633R	<i>Bromus catharticus</i>	rescue grass					0	2	0	X
633R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	0	X
633R	<i>Bromus tectorum</i>	cheatgrass					2	0	0	X
633R	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	X
633R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	0	X
633R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	X
633R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
633R	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				

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 7. Comparison of 2011 vs. 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
633R	<i>Medicago minima</i>	burr medic clover					2	2	0	X
633R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	X	X	1	2	0	X
633R	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	X
633R	<i>Sorghum halepense</i>	Johnsongrass					2	2	0	X
633R	<i>Torilis arvensis</i>	spreading hedgeparsley					0	1	1	X
650L	<i>Bromus catharticus</i>	rescue grass	1	0	X	X				
650L	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	3	2	X
650L	<i>Bromus tectorum</i>	cheatgrass	2	0	X	X				
650L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	X
650L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	X
650L	<i>Lathyrus hirsutus</i>	singletary pea					2	0	0	X
650L	<i>Lolium perenne</i>	perennial ryegrass	2	0	X	X	2	0	0	X
650L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
650L	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
650L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X	1	0	0	X
650L	<i>Sorghum halepense</i>	Johnsongrass	1	2	X	X				
650L	<i>Torilis arvensis</i>	spreading hedgeparsley	2	2	X	X	2	2	0	X
650L	<i>Tragopogon dubius</i>	western salsify	1	0	X	X				
650R	<i>Albizia julibrissin</i>	mimosa	2	2	2	2				
650R	<i>Bromus catharticus</i>	rescue grass					2	0	0	0
650R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	2	0	0
650R	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	2	2	0	0
650R	<i>Conium maculatum</i>	poison hemlock					0	1	0	0
650R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0	2	0	0	0
650R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
650R	<i>Lathyrus hirsutus</i>	singletary pea					2	0	0	0
650R	<i>Lolium perenne</i>	perennial ryegrass	2	0	0	0	2	0	0	0
650R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	0				
650R	<i>Medicago lupulina</i>	black medic clover	2	2	0	0				
650R	<i>Medicago minima</i>	burr medic clover					2	0	0	0
650R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	0				
650R	<i>Rumex crispus</i>	curley dock					1	2	0	0
650R	<i>Sonchus asper</i>	spiny sowthistle					2	2	0	0
650R	<i>Sorghum halepense</i>	Johnsongrass	2	2	2	2	2	2	2	2
650R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	2	0	0	2	2	0	0
651L	<i>Albizia julibrissin</i>	mimosa	2	0	0	0				
651L	<i>Bothriochloa ischaemum</i>	kr bluestem					2	0	0	0
651L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
651L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
651L	<i>Euphorbia dentata</i>	toothed spurge	0	1	0	0				
651L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
651L	<i>Lathyrus hirsutus</i>	singletary pea	1	0	0	0	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 7. Comparison of 2011 vs. 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
651L	<i>Lolium perenne</i>	perennial ryegrass	2	0	0	0	2	0	0	0
651L	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	0	0				
651L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
651L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0	2	0	0	0
651L	<i>Sonchus asper</i>	spiny sowthistle					2	0	0	0
651L	<i>Sorghum halepense</i>	Johnsongrass	1	2	0	0	2	2	0	0
651L	<i>Torilis arvensis</i>	spreading hedgeparsley	2	0	0	0				
651L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
651R	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
651R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	0	0	2	2	0	0
651R	<i>Bromus catharticus</i>	rescue grass					2	0	0	0
651R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	2	0	0
651R	<i>Bromus tectorum</i>	cheatgrass	2	0	0	0	1	2	0	0
651R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0	2	2	0	0
651R	<i>Erodium cicutarium</i>	red stem storksbill					1	0	0	0
651R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
651R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	0
651R	<i>Medicago lupulina</i>	black medic clover	2	2	2	0				
651R	<i>Sonchus asper</i>	spiny sowthistle					1	2	0	0
651R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	0	2	2	2	0
651R	<i>Tragopogon dubius</i>	western salsify	2	2	0	0				
652L	<i>Albizia julibrissin</i>	mimosa	1	1	X	X				
652L	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
652L	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
652L	<i>Bromus tectorum</i>	cheatgrass	1	0	X	X				
652L	<i>Cynodon dactylon</i>	Bermudagrass	2	0	X	X	3	0	X	X
652L	<i>Lactuca serriola</i>	prickly lettuce	0	2	X	X	2	1	X	X
652L	<i>Lolium perenne</i>	perennial ryegrass	2	2	X	X	2	0	X	X
652L	<i>Lonicera japonica</i>	Japanese honeysuckle	1	2	X	X	0	2	X	X
652L	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
652L	<i>Medicago minima</i>	burr medic clover	1	0	X	X	2	0	X	X
652L	<i>Melilotus officinalis</i>	yellow sweetclover	1	1	X	X				
652L	<i>Sonchus asper</i>	spiny sowthistle					0	1	X	X
652L	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	1	2	X	X
652L	<i>Torilis arvensis</i>	spreading hedgeparsley	2	2	X	X				
652L	<i>Tragopogon dubius</i>	western salsify	2	2	X	X				
652R	<i>Bromus catharticus</i>	rescue grass					2	0	0	X
652R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	X	2	2	0	X
652R	<i>Bromus tectorum</i>	cheatgrass	2	2	0	X	1	2	0	X
652R	<i>Cynodon dactylon</i>	Bermudagrass	3	2	0	X	2	2	0	X
652R	<i>Erodium cicutarium</i>	red stem storksbill					1	0	0	X
652R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	X

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 7. Comparison of 2011 vs. 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
652R	<i>Lolium perenne</i>	perennial ryegrass	2	2	0	X	2	0	0	X
652R	<i>Medicago lupulina</i>	black medic clover	3	2	0	X				
652R	<i>Medicago minima</i>	burr medic clover	2	0	0	X				
652R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X				
652R	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	X
652R	<i>Sorghum halepense</i>	Johnsongrass	2	3	0	X	2	2	2	X
652R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	2	0	X	0	1	0	X
653L	<i>Albizia julibrissin</i>	mimosa	1	2	0	0				
653L	<i>Bothriochloa ischaemum</i>	kr bluestem					2	0	0	0
653L	<i>Bromus catharticus</i>	rescue grass	1	0	0	0				
653L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
653L	<i>Cynodon dactylon</i>	Bermudagrass	2	0	0	0	3	2	0	0
653L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
653L	<i>Lolium perenne</i>	perennial ryegrass	2	0	0	0	2	0	0	0
653L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
653L	<i>Medicago minima</i>	burr medic clover	2	0	0	0	2	0	0	0
653L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	0	0				
653L	<i>Sorghum halepense</i>	Johnsongrass	1	2	0	0	2	2	0	0
653L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	1	0	0				
653R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
653R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	X	X	1	2	0	X
653R	<i>Bromus catharticus</i>	rescue grass					2	0	0	1
653R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	0	X
653R	<i>Bromus tectorum</i>	cheatgrass	2	2	X	X				
653R	<i>Conium maculatum</i>	poison hemlock					0	1	2	X
653R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	X	X	2	2	0	X
653R	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	X
653R	<i>Lolium perenne</i>	perennial ryegrass	2	2	X	X	2	0	0	X
653R	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
653R	<i>Medicago minima</i>	burr medic clover	3	2	X	X	2	0	0	X
653R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X	1	0	0	X
653R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	0	X
654L	<i>Albizia julibrissin</i>	mimosa	0	2	0	0				
654L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	2	0	2	0	0	0
654L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0				
654L	<i>Cynodon dactylon</i>	Bermudagrass	2	0	0	0	2	0	0	0
654L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
654L	<i>Lolium perenne</i>	perennial ryegrass	2	2	0	0	2	0	0	0
654L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	1	0	0	1	1	0	0
654L	<i>Medicago minima</i>	burr medic clover	2	0	0	0				
654L	<i>Melilotus officinalis</i>	yellow sweetclover	1	1	0	0	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

Table 7. Comparison of 2011 vs. 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
654L	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	0
654L	<i>Sorghum halepense</i>	Johnsongrass	1	2	0	0	2	2	0	0
654L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	0	1	0				
654R	<i>Achillea millefolium</i>	yarrow					1	0	X	X
654R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
654R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	1	0	X	X
654R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	X	2	0	X	X
654R	<i>Bromus tectorum</i>	cheatgrass	2	2	0	X				
654R	<i>Conium maculatum</i>	poison hemlock					0	2	X	X
654R	<i>Cynodon dactylon</i>	Bermudagrass	2	0	0	X	2	2	X	X
654R	<i>Lolium perenne</i>	perennial ryegrass	2	0	0	X				
654R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X				
654R	<i>Sorghum halepense</i>	Johnsongrass	2	3	0	X				
655L	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
655L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	2	0	2	0	0	0
655L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	0	0	0
655L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
655L	<i>Lactuca serriola</i>	prickly lettuce					0	1	0	0
655L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	2	0				
655L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0	1	0	0	0
655L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
655L	<i>Sorghum halepense</i>	Johnsongrass	1	0	0	0	2	2	0	0
655L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	1	1	0				
655R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
655R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	2	X	X
655R	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
655R	<i>Bromus japonicus</i>	Japanese brome					2	1	X	X
655R	<i>Bromus tectorum</i>	cheatgrass					2	2	X	X
655R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
655R	<i>Lactuca serriola</i>	prickly lettuce					1	0	X	X
655R	<i>Lathyrus hirsutus</i>	singletary pea					1	0	X	X
655R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
655R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
655R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
655R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	1	0	X	X
655R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	X	2	1	X	X
655R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	2	0	X				
655R	<i>Tragopogon dubius</i>	western salsify	0	2	0	X				
656L	<i>Albizia julibrissin</i>	mimosa	1	2	0	0				
656L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	2	0	2	0	0	0
656L	<i>Bromus catharticus</i>	rescue grass					1	0	0	0
656L	<i>Bromus japonicus</i>	Japanese brome	2	0	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 7. Comparison of 2011 vs. 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
656L	<i>Lactuca serriola</i>	prickly lettuce					1	2	0	0
656L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	2	0				
656L	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	0
656L	<i>Lonicera japonica</i>	Japanese honeysuckle	1	1	0	0				
656L	<i>Medicago lupulina</i>	black medic clover	1	0	0	0				
656L	<i>Medicago minima</i>	burr medic clover	2	0	0	0	2	0	0	0
656L	<i>Melilotus officinalis</i>	yellow sweetclover	1	1	0	0	2	0	0	0
656L	<i>Sorghum halepense</i>	Johnsongrass	1	1	2	0	2	2	0	0
656R	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
656R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	2	X	X
656R	<i>Bromus catharticus</i>	rescue grass					1	0	X	X
656R	<i>Bromus japonicus</i>	Japanese brome					2	1	X	X
656R	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0	0	2	X	X
656R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0	2	2	X	X
656R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X
656R	<i>Lespedeza cuneata</i>	sericea lespedeza					0	2	X	X
656R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
656R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
656R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	0				
656R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	0	2	2	X	X
657L	<i>Achillea millefolium</i>	yarrow					1	1	0	0
657L	<i>Albizia julibrissin</i>	mimosa	2	0	0	0				
657L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	2	0	2	0	0	0
657L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
657L	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
657L	<i>Cynodon dactylon</i>	Bermudagrass	2	0	0	0	2	2	2	0
657L	<i>Daucus carota</i>	queen anne's lace					1	0	0	0
657L	<i>Euphorbia dentata</i>	toothed spurge	1	0	0	0				
657L	<i>Kochia scoparia</i>	kochia	2	2	2	0				
657L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
657L	<i>Lathyrus hirsutus</i>	singletary pea	0	1	0	0				
657L	<i>Lolium perenne</i>	perennial ryegrass	2	2	0	0				
657L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
657L	<i>Medicago minima</i>	burr medic clover	2	0	0	0	2	2	0	0
657L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
657L	<i>Sorghum halepense</i>	Johnsongrass	2	2	3	3	2	2	0	0
657L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	0	0	0				
657R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
657R	<i>Bothriochloa ischaemum</i>	kr bluestem	3	2	X	X	2	2	0	X
657R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	2	X
657R	<i>Bromus tectorum</i>	cheatgrass	2	2	X	X	1	2	2	X
657R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	X	X	2	2	0	X

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 7. Comparison of 2011 vs. 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
657R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	X
657R	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
657R	<i>Medicago minima</i>	burr medic clover	2	3	X	X	2	0	0	X
657R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X				
657R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	2	X
657R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	2	X	X				
658L	<i>Achillea millefolium</i>	yarrow					2	2	0	0
658L	<i>Albizia julibrissin</i>	mimosa	1	0	X	X				
658L	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	0	0
658L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
658L	<i>Euphorbia davidii</i>	davids spurge					1	0	0	0
658L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
658L	<i>Lolium perenne</i>	perennial ryegrass	1	0	X	X	2	0	0	0
658L	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
658L	<i>Medicago minima</i>	burr medic clover	2	0	X	X	2	0	0	0
658L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X	1	0	0	0
658L	<i>Paspalum dilatatum</i>	dallisgrass					2	0	0	0
658L	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	0	0
658L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	1	X	X				
658R	<i>Achillea millefolium</i>	yarrow					2	1	X	X
658R	<i>Albizia julibrissin</i>	mimosa	0	2	X	X				
658R	<i>Bothriochloa ischaemum</i>	kr bluestem					1	0	X	X
658R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	3	3	X	X
658R	<i>Bromus tectorum</i>	cheatgrass	2	2	X	X	0	2	X	X
658R	<i>Conium maculatum</i>	poison hemlock					0	1	X	X
658R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	X	X
658R	<i>Lactuca serriola</i>	prickly lettuce					2	1	X	X
658R	<i>Lolium perenne</i>	perennial ryegrass	2	0	X	X				
658R	<i>Medicago lupulina</i>	black medic clover	3	3	X	X				
658R	<i>Medicago minima</i>	burr medic clover	3	3	X	X	2	2	X	X
658R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X				
658R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	X	X
659L	<i>Achillea millefolium</i>	yarrow					2	2	0	0
659L	<i>Albizia julibrissin</i>	mimosa	1	0	X	X				
659L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	X	X				
659L	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	3	2	0	0
659L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
659L	<i>Lactuca serriola</i>	prickly lettuce					1	2	0	0
659L	<i>Lolium perenne</i>	perennial ryegrass	1	0	X	X	2	0	0	0
659L	<i>Lonicera japonica</i>	Japanese honeysuckle	1	2	X	X	0	1	0	0
659L	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
659L	<i>Medicago minima</i>	burr medic clover	2	0	X	X	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 7. Comparison of 2011 vs. 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
659L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X				
659L	<i>Paspalum dilatatum</i>	dallisgrass					2	0	0	0
659L	<i>Sorghum halepense</i>	Johnsongrass	1	2	X	X	2	2	0	0
659L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	0	X	X				
659R	<i>Achillea millefolium</i>	yarrow					0	2	X	X
659R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
659R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
659R	<i>Bromus tectorum</i>	cheatgrass	2	3	X	X				
659R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
659R	<i>Lactuca serriola</i>	prickly lettuce					2	1	X	X
659R	<i>Lolium perenne</i>	perennial ryegrass	2	0	X	X	2	2	X	X
659R	<i>Medicago lupulina</i>	black medic clover	3	3	X	X				
659R	<i>Medicago minima</i>	burr medic clover	3	3	X	X	2	0	X	X
659R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X	1	0	X	X
659R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	1	2	X	X
659R	<i>Tragopogon dubius</i>	western salsify	0	2	X	X				
660L	<i>Albizia julibrissin</i>	mimosa	1	0	0	0				
660L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	2	0	0
660L	<i>Bromus catharticus</i>	rescue grass					1	0	0	0
660L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
660L	<i>Cynodon dactylon</i>	Bermudagrass	2	0	0	0	2	0	0	0
660L	<i>Lolium perenne</i>	perennial ryegrass					1	0	0	0
660L	<i>Lonicera japonica</i>	Japanese honeysuckle					0	1	0	0
660L	<i>Medicago minima</i>	burr medic clover	2	0	0	0	2	0	0	0
660L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
660L	<i>Paspalum dilatatum</i>	dallisgrass					2	0	0	0
660L	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	0	2	2	0	0
660L	<i>Taraxacum officinale</i>	dandelion	1	0	0	0				
660L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	1	0	0				
660R	<i>Albizia julibrissin</i>	mimosa	3	2	X	X				
660R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	0	X	X
660R	<i>Bromus catharticus</i>	rescue grass					1	0	X	X
660R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
660R	<i>Bromus tectorum</i>	cheatgrass	2	3	X	X	0	2	X	X
660R	<i>Cynodon dactylon</i>	Bermudagrass					2	1	X	X
660R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X
660R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
660R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
660R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X				
660R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	X	X
661L	<i>Albizia julibrissin</i>	mimosa	1	0	0	0				
661L	<i>Bothriochloa ischaemum</i>	kr bluestem	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 7. Comparison of 2011 vs. 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
661L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
661L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
661L	<i>Kochia scoparia</i>	kochia	0	2	0	0				
661L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
661L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
661L	<i>Paspalum dilatatum</i>	dallisgrass					2	0	0	0
661L	<i>Sorghum halepense</i>	Johnsongrass					2	2	0	0
661L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	1	0	0				
661L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
661R	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
661R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	3	3	3	2	1	X	X
661R	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
661R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
661R	<i>Conium maculatum</i>	poison hemlock					0	2	X	X
661R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0	2	0	X	X
661R	<i>Lactuca serriola</i>	prickly lettuce					1	0	X	X
661R	<i>Lolium perenne</i>	perennial ryegrass					2	1	X	X
661R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
661R	<i>Medicago sativa</i>	alfalfa					1	0	X	X
661R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0				
661R	<i>Sorghum halepense</i>	Johnsongrass	2	2	2	0	2	1	X	X
661R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	X	X
662L	<i>Albizia julibrissin</i>	mimosa	1	0	0	0				
662L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	0	0	2	2	0	0
662L	<i>Bromus catharticus</i>	rescue grass					1	0	0	0
662L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	2	0	0
662L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
662L	<i>Kochia scoparia</i>	kochia	0	1	0	0				
662L	<i>Medicago minima</i>	burr medic clover	2	0	0	0				
662L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0				
662L	<i>Sorghum halepense</i>	Johnsongrass	0	1	0	0	2	2	0	0
662R	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
662R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	3	3	3	2	0	X	X
662R	<i>Bromus japonicus</i>	Japanese brome					2	1	X	X
662R	<i>Bromus tectorum</i>	cheatgrass					1	0	X	X
662R	<i>Conium maculatum</i>	poison hemlock					0	2	X	X
662R	<i>Cynodon dactylon</i>	Bermudagrass	3	3	0	0				
662R	<i>Melilotus officinalis</i>	yellow sweetclover	3	2	0	0	1	0	X	X
662R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	0	2	0	X	X
663L	<i>Albizia julibrissin</i>	mimosa	1	0	0	0				
663L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	2	0	0
663L	<i>Bromus japonicus</i>	Japanese brome	2	0	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 7. Comparison of 2011 vs. 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
663L	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0	2	0	0	0
663L	<i>Kochia scoparia</i>	kochia	1	1	0	0				
663L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
663L	<i>Melilotus officinalis</i>	yellow sweetclover	2	1	0	0				
663L	<i>Sorghum halepense</i>	Johnsongrass					1	0	0	0
663R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	2	2	2	0	X	X
663R	<i>Bromus japonicus</i>	Japanese brome					2	1	X	X
663R	<i>Conium maculatum</i>	poison hemlock					0	1	X	X
663R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0	2	2	X	X
663R	<i>Lactuca serriola</i>	prickly lettuce					0	2	X	X
663R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
663R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	2	0	1	0	X	X
663R	<i>Sorghum halepense</i>	Johnsongrass					1	0	X	X
664L	<i>Achillea millefolium</i>	yarrow					2	1	0	0
664L	<i>Albizia julibrissin</i>	mimosa	1	1	0	0				
664L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	2	0	0
664L	<i>Bromus catharticus</i>	rescue grass					1	0	0	0
664L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0				
664L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
664L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
664L	<i>Medicago sativa</i>	alfalfa	1	1	0	0				
664L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0	1	0	0	0
664L	<i>Sorghum halepense</i>	Johnsongrass	0	1	2	0	1	2	0	0
664R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
664R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	3	3	X	1	1	X	X
664R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	X	2	0	X	X
664R	<i>Conium maculatum</i>	poison hemlock					1	1	X	X
664R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	X	2	2	X	X
664R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	X	X
664R	<i>Medicago sativa</i>	alfalfa	2	0	0	X				
664R	<i>Melilotus officinalis</i>	yellow sweetclover	3	2	0	X	0	1	X	X
664R	<i>Sonchus asper</i>	spiny sowthistle					1	0	X	X
665L	<i>Albizia julibrissin</i>	mimosa	1	1	X	X				
665L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	0	0	0
665L	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	2	0	0
665L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
665L	<i>Euphorbia dentata</i>	toothed spurge					1	0	0	0
665L	<i>Lespedeza cuneata</i>	sericea lespedeza	1	1	X	X				
665L	<i>Medicago minima</i>	burr medic clover	2	0	X	X				
665L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X	1	0	0	0
665L	<i>Sorghum halepense</i>	Johnsongrass	0	1	X	X	1	2	0	0
665R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				

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 7. Comparison of 2011 vs. 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
665R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	1	0	X	X
665R	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
665R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	X	2	2	X	X
665R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
665R	<i>Cynodon dactylon</i>	Bermudagrass					2	2	X	X
665R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	X	X
665R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
665R	<i>Medicago lupulina</i>	black medic clover	2	0	0	X				
665R	<i>Medicago minima</i>	burr medic clover	2	0	0	X	2	0	X	X
665R	<i>Medicago sativa</i>	alfalfa	2	0	0	X				
665R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X	1	2	X	X
665R	<i>Sorghum halepense</i>	Johnsongrass	2	2	2	X	2	2	X	X
665R	<i>Torilis arvensis</i>	spreading hedgeparsley					0	1	X	X
666L	<i>Albizia julibrissin</i>	mimosa	2	0	0	0				
666L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0				
666L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	2	0	0
666L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
666L	<i>Euphorbia dentata</i>	toothed spurge					1	0	0	0
666L	<i>Lespedeza cuneata</i>	sericea lespedeza	1	1	0	0	2	1	0	0
666L	<i>Lolium perenne</i>	perennial ryegrass	0	1	0	0	1	0	0	0
666L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
666L	<i>Medicago minima</i>	burr medic clover	2	0	0	0	2	0	0	0
666L	<i>Melilotus officinalis</i>	yellow sweetclover					1	0	0	0
666L	<i>Sorghum halepense</i>	Johnsongrass	0	3	2	0	2	2	2	0
666L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
666R	<i>Achillea millefolium</i>	yarrow					1	1	X	X
666R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
666R	<i>Bothriochloa ischaemum</i>	kr bluestem					1	0	X	X
666R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
666R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
666R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
666R	<i>Lactuca serriola</i>	prickly lettuce					1	0	X	X
666R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
666R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
666R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
666R	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
666R	<i>Medicago minima</i>	burr medic clover	2	2	X	X	2	0	X	X
666R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X	1	2	X	X
666R	<i>Poa annua</i>	annual bluegrass					2	1	X	X
666R	<i>Sorghum halepense</i>	Johnsongrass					2	2	X	X
666R	<i>Torilis arvensis</i>	spreading hedgeparsley	0	2	X	X	2	2	X	X
666R	<i>Tragopogon dubius</i>	western salsify	2	2	X	X				

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 7. Comparison of 2011 vs. 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
667L	<i>Achillea millefolium</i>	yarrow					2	0	0	0
667L	<i>Albizia julibrissin</i>	mimosa	2	0	0	0				
667L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	3	2	0	0
667L	<i>Bromus tectorum</i>	cheatgrass	1	1	0	0				
667L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
667L	<i>Euphorbia dentata</i>	toothed spurge					2	0	0	0
667L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
667L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0	2	1	0	0
667L	<i>Lolium perenne</i>	perennial ryegrass	2	0	0	0	2	0	0	0
667L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
667L	<i>Medicago minima</i>	burr medic clover	2	0	0	0				
667L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
667L	<i>Sorghum halepense</i>	Johnsongrass	0	3	3	0	2	3	2	0
667L	<i>Torilis arvensis</i>	spreading hedgeparsley	2	0	0	0				
667R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
667R	<i>Bromus japonicus</i>	Japanese brome	3	3	X	X	2	2	X	X
667R	<i>Bromus tectorum</i>	cheatgrass	3	3	X	X	2	2	X	X
667R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
667R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X
667R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
667R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
667R	<i>Medicago lupulina</i>	black medic clover	3	3	X	X				
667R	<i>Medicago minima</i>	burr medic clover	3	3	X	X	2	0	X	X
667R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	X	X
667R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	3	X	X	2	2	X	X
668L	<i>Achillea millefolium</i>	yarrow					2	0	0	0
668L	<i>Albizia julibrissin</i>	mimosa	2	0	X	X				
668L	<i>Bromus japonicus</i>	Japanese brome	3	3	X	X	3	3	0	0
668L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
668L	<i>Kochia scoparia</i>	kochia	2	2	X	X				
668L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
668L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X	2	1	0	0
668L	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
668L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
668L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X				
668L	<i>Sorghum halepense</i>	Johnsongrass	0	2	X	X	3	2	0	0
668L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	1	X	X				
668R	<i>Achillea millefolium</i>	yarrow					2	2	X	X
668R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
668R	<i>Bromus japonicus</i>	Japanese brome	3	3	X	X	2	2	X	X
668R	<i>Bromus tectorum</i>	cheatgrass	3	3	X	X	2	2	X	X
668R	<i>Conium maculatum</i>	poison hemlock					0	1	X	X

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 7. Comparison of 2011 vs. 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
668R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
668R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X
668R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
668R	<i>Medicago lupulina</i>	black medic clover	3	3	X	X				
668R	<i>Medicago minima</i>	burr medic clover	3	3	X	X	2	0	X	X
668R	<i>Melilotus officinalis</i>	yellow sweetclover					0	2	X	X
668R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	X	X
669L	<i>Achillea millefolium</i>	yarrow					2	1	0	0
669L	<i>Albizia julibrissin</i>	mimosa	2	0	0	0				
669L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	3	2	0	0
669L	<i>Bromus tectorum</i>	cheatgrass	0	1	0	0				
669L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
669L	<i>Daucus carota</i>	queen anne's lace					1	0	0	0
669L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
669L	<i>Lespedeza cuneata</i>	sericea lespedeza					2	0	0	0
669L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
669L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
669L	<i>Sorghum halepense</i>	Johnsongrass	0	2	3	0	3	2	2	0
669L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	2	2	0				
669R	<i>Achillea millefolium</i>	yarrow					2	2	X	X
669R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
669R	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
669R	<i>Bromus japonicus</i>	Japanese brome	3	3	0	X	2	2	X	X
669R	<i>Bromus tectorum</i>	cheatgrass	3	3	0	X	2	2	X	X
669R	<i>Conium maculatum</i>	poison hemlock					1	2	X	X
669R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	X	2	0	X	X
669R	<i>Daucus carota</i>	queen anne's lace					1	1	X	X
669R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	X	X
669R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
669R	<i>Lolium perenne</i>	perennial ryegrass					1	0	X	X
669R	<i>Medicago lupulina</i>	black medic clover	3	3	0	X				
669R	<i>Melilotus officinalis</i>	yellow sweetclover					1	0	X	X
669R	<i>Sorghum halepense</i>	Johnsongrass	2	2	2	X	2	2	X	X
670L	<i>Achillea millefolium</i>	yarrow					2	1	1	1
670L	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
670L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	2	2	2
670L	<i>Cynodon dactylon</i>	Bermudagrass					2	2	2	2
670L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
670L	<i>Sorghum halepense</i>	Johnsongrass	0	3	0	0	1	0	2	2
670L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	2	0	0				
670R	<i>Achillea millefolium</i>	yarrow					2	2	X	X
670R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				

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 7. Comparison of 2011 vs. 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
670R	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
670R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
670R	<i>Bromus tectorum</i>	cheatgrass	2	2	X	X	2	2	X	X
670R	<i>Conium maculatum</i>	poison hemlock					0	2	X	X
670R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
670R	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
670R	<i>Medicago minima</i>	burr medic clover	2	2	X	X	2	0	X	X
670R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	X	X
670R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	X	X
670R	<i>Tragopogon dubius</i>	western salsify	2	2	X	X				
700L	<i>Albizia julibrissin</i>	mimosa	0	1	X	X				
700L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	2	0	0
700L	<i>Bromus catharticus</i>	rescue grass					2	2	0	0
700L	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	2	0	0
700L	<i>Bromus tectorum</i>	cheatgrass					2	2	0	0
700L	<i>Cynodon dactylon</i>	Bermudagrass	2	0	X	X	2	2	0	0
700L	<i>Euphorbia dentata</i>	toothed spurge	1	0	X	X	1	0	0	0
700L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
700L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	0	X	X	0	2	0	0
700L	<i>Lolium perenne</i>	perennial ryegrass					1	2	0	0
700L	<i>Medicago minima</i>	burr medic clover	2	0	X	X	2	2	0	0
700L	<i>Melilotus officinalis</i>	white sweetclover					0	1	0	0
700L	<i>Paspalum dilatatum</i>	dallisgrass					1	2	0	0
700L	<i>Polygonum convolvulus</i>	climbing buckwheat					1	0	0	0
700L	<i>Sorghum halepense</i>	Johnsongrass	1	2	X	X	2	3	2	2
700L	<i>Tragopogon dubius</i>	western salsify	1	0	X	X				
700R	<i>Aegilops cylindrica</i>	jointed goat grass					0	1	0	0
700R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
700R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	2	0	0
700R	<i>Bromus catharticus</i>	rescue grass					1	2	0	0
700R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	2	0
700R	<i>Bromus tectorum</i>	cheatgrass	2	2	X	X	2	2	0	0
700R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	X	X	2	2	0	0
700R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
700R	<i>Lespedeza cuneata</i>	sericea lespedeza					0	1	0	0
700R	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
700R	<i>Medicago minima</i>	burr medic clover	2	2	X	X	2	2	2	0
700R	<i>Paspalum dilatatum</i>	dallisgrass					2	0	0	0
700R	<i>Sonchus asper</i>	spiny sowthistle					0	2	0	0
700R	<i>Sorghum halepense</i>	Johnsongrass	2	3	X	X	2	2	2	0
700R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	2	X	X	0	1	0	0
701L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	3	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 7. Comparison of 2011 vs. 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
701L	<i>Bromus japonicus</i>	Japanese brome	1	0	0	0	2	2	0	0
701L	<i>Kummerowia stipulacea</i>	korean lespedeza					2	0	0	0
701L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
701L	<i>Lespedeza cuneata</i>	sericea lespedeza	0	2	2	0	1	2	2	0
701L	<i>Medicago minima</i>	burr medic clover	2	0	0	0	2	2	0	0
701L	<i>Melilotus officinalis</i>	yellow sweetclover	0	1	0	0				
701L	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	0
701L	<i>Sorghum halepense</i>	Johnsongrass	0	2	2	0	2	3	2	0
701R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	2	0	X
701R	<i>Bromus catharticus</i>	rescue grass					1	1	0	X
701R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	0	X
701R	<i>Cynodon dactylon</i>	Bermudagrass	3	2	X	X	2	0	0	X
701R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	X
701R	<i>Lespedeza cuneata</i>	sericea lespedeza					1	2	1	X
701R	<i>Medicago lupulina</i>	black medic clover	2	2	X	X				
701R	<i>Medicago minima</i>	burr medic clover	3	2	X	X	2	2	2	X
701R	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	X	X				
701R	<i>Sonchus asper</i>	spiny sowthistle					0	2	0	X
701R	<i>Sorghum halepense</i>	Johnsongrass	2	3	X	X	2	2	2	X
701R	<i>Torilis arvensis</i>	spreading hedgeparsley	1	0	X	X	1	2	0	X
701R	<i>Tragopogon dubius</i>	western salsify					0	2	0	X
702L	<i>Albizia julibrissin</i>	mimosa	0	1	X	X				
702L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	3	0	0
702L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
702L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
702L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X	0	2	0	0
702L	<i>Lonicera japonica</i>	Japanese honeysuckle					0	1	0	0
702L	<i>Medicago minima</i>	burr medic clover					2	2	0	0
702L	<i>Sonchus asper</i>	spiny sowthistle					0	1	0	0
702L	<i>Sorghum halepense</i>	Johnsongrass	0	1	X	X	2	2	2	0
702L	<i>Torilis arvensis</i>	spreading hedgeparsley					1	1	0	0
702R	<i>Achillea millefolium</i>	yarrow					0	2	0	X
702R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
702R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	2	0	X
702R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	0	X
702R	<i>Bromus tectorum</i>	cheatgrass					0	2	2	X
702R	<i>Cynodon dactylon</i>	Bermudagrass	3	3	X	X	2	2	0	X
702R	<i>Kummerowia stipulacea</i>	korean lespedeza					2	0	0	X
702R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	X
702R	<i>Lespedeza cuneata</i>	sericea lespedeza					0	2	0	X
702R	<i>Medicago lupulina</i>	black medic clover					2	2	2	X
702R	<i>Medicago minima</i>	burr medic clover	3	2	X	X				

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 7. Comparison of 2011 vs. 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
702R	<i>Sonchus asper</i>	spiny sowthistle					0	2	2	X
702R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	0	2	2	X
702R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	2	0	X
702R	<i>Tragopogon dubius</i>	western salsify					0	0	1	X
703L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	3	2	0	0
703L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
703L	<i>Euphorbia davidii</i>	dauids spurge					1	0	0	0
703L	<i>Lactuca serriola</i>	prickly lettuce					1	2	0	0
703L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	2	X	0	2	0	0
703L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	2	0	X				
703L	<i>Medicago minima</i>	burr medic clover					2	2	0	0
703L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
703L	<i>Sorghum halepense</i>	Johnsongrass	0	2	2	X				
703L	<i>Tragopogon dubius</i>	western salsify	1	0	0	X				
703R	<i>Achillea millefolium</i>	yarrow					0	2	0	X
703R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
703R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	2	0	X
703R	<i>Bromus catharticus</i>	rescue grass					0	2	0	X
703R	<i>Bromus japonicus</i>	Japanese brome					2	2	0	X
703R	<i>Cynodon dactylon</i>	Bermudagrass	3	3	X	X	2	2	0	X
703R	<i>Lactuca serriola</i>	prickly lettuce					2	2	1	X
703R	<i>Medicago minima</i>	burr medic clover					2	2	0	X
703R	<i>Sonchus asper</i>	spiny sowthistle					0	2	2	X
703R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	0	2	1	X
703R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	2	2	X
703R	<i>Tragopogon dubius</i>	western salsify	2	2	X	X	0	2	0	X
704L	<i>Albizia julibrissin</i>	mimosa	0	1	0	X				
704L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	0	X	3	2	0	0
704L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
704L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
704L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	X	2	2	0	0
704L	<i>Medicago minima</i>	burr medic clover					2	2	0	0
704L	<i>Melilotus officinalis</i>	white sweetclover					2	0	0	0
704L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X				
704L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
704L	<i>Sorghum halepense</i>	Johnsongrass	1	0	0	X	1	0	0	0
704L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	0	0	X				
704R	<i>Achillea millefolium</i>	yarrow					1	2	0	X
704R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
704R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	2	0	X
704R	<i>Bromus japonicus</i>	Japanese brome					2	2	0	X
704R	<i>Bromus tectorum</i>	cheatgrass					0	2	0	X

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 7. Comparison of 2011 vs. 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
704R	<i>Cynodon dactylon</i>	Bermudagrass	3	3	0	X	2	2	0	X
704R	<i>Kummerowia stipulacea</i>	korean lespedeza					2	2	0	X
704R	<i>Lespedeza cuneata</i>	sericea lespedeza	0	2	0	X	1	2	0	X
704R	<i>Lonicera japonica</i>	Japanese honeysuckle					0	1	0	X
704R	<i>Medicago minima</i>	burr medic clover					2	2	0	X
704R	<i>Medicago sativa</i>	alfalfa					1	1	0	X
704R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X				
704R	<i>Sonchus asper</i>	spiny sowthistle					0	2	1	X
704R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	X	0	2	2	X
704R	<i>Torilis arvensis</i>	spreading hedgeparsley					0	2	2	X
705L	<i>Bothriochloa ischaemum</i>	kr bluestem	3	3	3	X	3	2	0	0
705L	<i>Bromus japonicus</i>	Japanese brome	1	0	0	X	2	0	0	0
705L	<i>Kummerowia stipulacea</i>	korean lespedeza					2	0	0	0
705L	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	0
705L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	3	3	X	2	2	0	0
705L	<i>Medicago minima</i>	burr medic clover	2	0	0	X	2	2	0	0
705L	<i>Melilotus officinalis</i>	white sweetclover					2	2	2	0
705L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X				
705L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
705L	<i>Sorghum halepense</i>	Johnsongrass	1	3	3	X	2	2	2	0
705L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	0	0	X	1	2	0	0
705R	<i>Albizia julibrissin</i>	mimosa	0	2	0	X				
705R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	0	X	X
705R	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
705R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
705R	<i>Lactuca serriola</i>	prickly lettuce					2	0	X	X
705R	<i>Lespedeza cuneata</i>	sericea lespedeza					1	1	X	X
705R	<i>Medicago minima</i>	burr medic clover					2	2	X	X
705R	<i>Medicago sativa</i>	alfalfa					1	0	X	X
705R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X				
705R	<i>Paspalum dilatatum</i>	dallisgrass					2	0	X	X
705R	<i>Sonchus asper</i>	spiny sowthistle					0	1	X	X
705R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	X	2	2	X	X
705R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	2	X	X
705R	<i>Tragopogon dubius</i>	western salsify					2	0	X	X
706L	<i>Achillea millefolium</i>	yarrow					0	2	0	0
706L	<i>Bothriochloa ischaemum</i>	kr bluestem	3	3	3	X	3	3	0	0
706L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
706L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
706L	<i>Kummerowia stipulacea</i>	korean lespedeza					2	0	0	0
706L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
706L	<i>Lespedeza cuneata</i>	sericea lespedeza	3	3	3	X	1	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 7. Comparison of 2011 vs. 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
706L	<i>Medicago minima</i>	burr medic clover					2	2	0	0
706L	<i>Melilotus officinalis</i>	white sweetclover					1	2	2	0
706L	<i>Melilotus officinalis</i>	yellow sweetclover					0	2	2	0
706L	<i>Paspalum dilatatum</i>	dallisgrass					2	0	0	0
706L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
706L	<i>Sorghum halepense</i>	Johnsongrass	1	3	3	X	2	2	0	0
706L	<i>Tragopogon dubius</i>	western salsify	2	0	0	X				
706R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
706R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	0	0	X
706R	<i>Bromus japonicus</i>	Japanese brome					1	0	0	X
706R	<i>Bromus tectorum</i>	cheatgrass					1	0	0	X
706R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	2	X	2	2	0	X
706R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	0	X
706R	<i>Lactuca serriola</i>	prickly lettuce					1	2	0	X
706R	<i>Lespedeza cuneata</i>	sericea lespedeza					1	2	0	X
706R	<i>Medicago lupulina</i>	black medic clover	2	2	0	X				
706R	<i>Medicago minima</i>	burr medic clover					2	2	0	X
706R	<i>Medicago sativa</i>	alfalfa					1	1	0	X
706R	<i>Paspalum dilatatum</i>	dallisgrass					2	2	0	X
706R	<i>Sonchus asper</i>	spiny sowthistle					2	1	1	X
706R	<i>Sorghum halepense</i>	Johnsongrass	2	3	2	X	2	2	2	X
706R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	0	0	X	2	2	0	X
706R	<i>Tragopogon dubius</i>	western salsify					0	1	0	X
707L	<i>Bothriochloa ischaemum</i>	kr bluestem	1	2	0	0				
707L	<i>Bromus japonicus</i>	Japanese brome					2	2	2	0
707L	<i>Cynodon dactylon</i>	Bermudagrass	3	3	3	3	3	4	4	3
707L	<i>Lactuca serriola</i>	prickly lettuce					2	2	2	2
707L	<i>Lathyrus hirsutus</i>	singletary pea					1	1	0	0
707L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	2	2				
707L	<i>Medicago minima</i>	burr medic clover					2	2	2	0
707L	<i>Melilotus officinalis</i>	yellow sweetclover	0	0	1	0				
707L	<i>Polygonum convolvulus</i>	climbing buckwheat					0	1	0	0
707L	<i>Sorghum halepense</i>	Johnsongrass	2	2	3	2	2	2	2	2
707L	<i>Taraxacum officinale</i>	dandelion					2	2	2	2
707L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	1	0	0	2	2	2	0
707L	<i>Tragopogon dubius</i>	western salsify	0	0	1	0				
707R	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	2	2	0	X
707R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	X	X	2	2	0	X
707R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	0	X
707R	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	X
707R	<i>Lathyrus hirsutus</i>	singletary pea					2	2	1	X
707R	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X	0	2	0	X

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 7. Comparison of 2011 vs. 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
707R	<i>Medicago lupulina</i>	black medic clover					1	0	0	X
707R	<i>Medicago minima</i>	burr medic clover					2	0	0	X
707R	<i>Paspalum dilatatum</i>	dallisgrass					2	2	0	X
707R	<i>Rumex crispus</i>	curley dock					0	1	0	X
707R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	2	2	X
707R	<i>Torilis arvensis</i>	spreading hedgeparsley	0	2	X	X	2	2	2	X
707R	<i>Tragopogon dubius</i>	western salsify					1	0	0	X
750L	<i>Albizia julibrissin</i>	mimosa	1	0	0	0				
750L	<i>Bothriochloa ischaemum</i>	kr bluestem					2	0	0	0
750L	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	3	2	0	0
750L	<i>Daucus carota</i>	queen anne's lace					1	0	0	0
750L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
750L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
750L	<i>Sorghum halepense</i>	Johnsongrass	0	0	0	2	2	2	0	0
750L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	1	1	0				
750L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
750R	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
750R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	2	0	2	2	X	X
750R	<i>Bromus japonicus</i>	Japanese brome					2	2	X	X
750R	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0				
750R	<i>Cynodon dactylon</i>	Bermudagrass	2	0	0	0	2	0	X	X
750R	<i>Lolium perenne</i>	perennial ryegrass					2	0	X	X
750R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	0				
750R	<i>Sorghum halepense</i>	Johnsongrass	1	0	0	0	2	2	X	X
751L	<i>Achillea millefolium</i>	yarrow					2	0	0	0
751L	<i>Albizia julibrissin</i>	mimosa	1	1	0	0				
751L	<i>Bromus catharticus</i>	rescue grass					1	0	0	0
751L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
751L	<i>Kochia scoparia</i>	kochia	0	1	0	0				
751L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
751L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
751L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	0	1	0	0	0
751L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
751L	<i>Sorghum halepense</i>	Johnsongrass	1	2	2	0	2	2	2	2
751L	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	0	0
751R	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
751R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	2	0	X
751R	<i>Bromus catharticus</i>	rescue grass					1	0	0	X
751R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	1	0	X
751R	<i>Bromus tectorum</i>	cheatgrass	2	2	0	0				
751R	<i>Conium maculatum</i>	poison hemlock					0	2	2	X
751R	<i>Cynodon dactylon</i>	Bermudagrass	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 7. Comparison of 2011 vs. 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
751R	<i>Lolium perenne</i>	perennial ryegrass					2	0	0	X
751R	<i>Medicago minima</i>	burr medic clover					2	0	0	X
751R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	0	1	0	0	X
751R	<i>Sorghum halepense</i>	Johnsongrass					1	1	0	X
751R	<i>Tragopogon dubius</i>	western salsify	2	0	0	0				
752L	<i>Albizia julibrissin</i>	mimosa	2	0	0	0				
752L	<i>Bothriochloa ischaemum</i>	kr bluestem	1	0	0	0				
752L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
752L	<i>Kochia scoparia</i>	kochia	1	0	0	0				
752L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
752L	<i>Lonicera japonica</i>	Japanese honeysuckle	1	1	0	0				
752L	<i>Medicago lupulina</i>	black medic clover	2	2	0	0				
752L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
752L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
752L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
752L	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	0	1	2	2	2
752R	<i>Achillea millefolium</i>	yarrow					1	1	X	X
752R	<i>Albizia julibrissin</i>	mimosa	2	0	0	X				
752R	<i>Bothriochloa ischaemum</i>	kr bluestem					2	2	X	X
752R	<i>Bromus catharticus</i>	rescue grass					1	0	X	X
752R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	X	2	2	X	X
752R	<i>Bromus tectorum</i>	cheatgrass	2	2	0	X				
752R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	X				
752R	<i>Lactuca serriola</i>	prickly lettuce					2	1	X	X
752R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
752R	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X				
752R	<i>Sorghum halepense</i>	Johnsongrass					1	0	X	X
753L	<i>Achillea millefolium</i>	yarrow					2	0	0	0
753L	<i>Albizia julibrissin</i>	mimosa	3	0	0	X				
753L	<i>Bothriochloa ischaemum</i>	kr bluestem	1	0	0	X	2	0	0	0
753L	<i>Bromus catharticus</i>	rescue grass					2	0	0	0
753L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	X	2	2	0	0
753L	<i>Lonicera japonica</i>	Japanese honeysuckle	0	1	0	X				
753L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
753L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X				
753L	<i>Sonchus asper</i>	spiny sowthistle					2	0	0	0
753L	<i>Sorghum halepense</i>	Johnsongrass					1	1	2	2
753R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
753R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	2	X	X
753R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	0	X	X
753R	<i>Cynodon dactylon</i>	Bermudagrass					1	0	X	X
753R	<i>Medicago minima</i>	burr medic clover					2	0	X	X

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 7. Comparison of 2011 vs. 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
753R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	X	X				
754L	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
754L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	2	0	0
754L	<i>Bromus catharticus</i>	rescue grass					1	0	0	0
754L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	X	2	2	0	0
754L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
754L	<i>Daucus carota</i>	queen anne's lace					1	0	0	0
754L	<i>Euphorbia dentata</i>	toothed spurge					1	0	0	0
754L	<i>Kochia scoparia</i>	kochia	1	1	0	X				
754L	<i>Lactuca serriola</i>	prickly lettuce	0	1	0	X				
754L	<i>Lonicera japonica</i>	Japanese honeysuckle	1	1	0	X				
754L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
754L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X				
754L	<i>Sonchus asper</i>	spiny sowthistle					2	1	0	0
754L	<i>Sorghum halepense</i>	Johnsongrass	0	2	0	X	1	2	0	2
754R	<i>Albizia julibrissin</i>	mimosa	2	2	0	0				
754R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	2	X	X
754R	<i>Bromus japonicus</i>	Japanese brome	2	2	0	0	2	1	X	X
754R	<i>Cynodon dactylon</i>	Bermudagrass	2	2	0	0	2	0	X	X
754R	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	X	X
754R	<i>Medicago sativa</i>	alfalfa	2	0	0	0				
755L	<i>Achillea millefolium</i>	yarrow					0	1	0	0
755L	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
755L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	0	0	X	2	2	0	0
755L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	X	2	2	0	0
755L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
755L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
755L	<i>Melilotus officinalis</i>	white sweetclover					0	2	0	0
755L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	X				
755L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
755L	<i>Sorghum halepense</i>	Johnsongrass					2	2	0	0
755R	<i>Albizia julibrissin</i>	mimosa	2	2	X	X				
755R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	2	X	X
755R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
755R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
755R	<i>Medicago sativa</i>	alfalfa	2	2	X	X				
755R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	X	X	1	0	X	X
755R	<i>Sorghum halepense</i>	Johnsongrass					1	0	X	X
756L	<i>Albizia julibrissin</i>	mimosa	1	0	0	X				
756L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	2	0	0
756L	<i>Bromus japonicus</i>	Japanese brome					2	0	0	0
756L	<i>Cynodon dactylon</i>	Bermudagrass					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 7. Comparison of 2011 vs. 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 minima</i>	burr medic clover	2	0	0	X	2	0	0	0
756L	<i>Medicago sativa</i>	alfalfa	2	0	0	X				
756L	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	0	X				
756L	<i>Sorghum halepense</i>	Johnsongrass	1	0	0	X	2	2	0	0
756R	<i>Albizia julibrissin</i>	mimosa	2	2	0	X				
756R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	X	2	2	0	X
756R	<i>Bromus catharticus</i>	rescue grass					1	0	0	X
756R	<i>Bromus japonicus</i>	Japanese brome					2	0	0	X
756R	<i>Conium maculatum</i>	poison hemlock					1	0	0	X
756R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	X
756R	<i>Lactuca serriola</i>	prickly lettuce					2	2	0	X
756R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	2	X				
756R	<i>Melilotus officinalis</i>	yellow sweetclover	2	2	0	X				
756R	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	X
756R	<i>Sorghum halepense</i>	Johnsongrass	2	2	0	X				
757L	<i>Achillea millefolium</i>	yarrow					2	1	0	0
757L	<i>Albizia julibrissin</i>	mimosa	1	1	0	0				
757L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0	2	0	0	0
757L	<i>Bromus japonicus</i>	Japanese brome	2	0	0	0	2	2	0	0
757L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
757L	<i>Lactuca serriola</i>	prickly lettuce					2	0	0	0
757L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	0	0	2	2	0	0
757L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
757L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
757L	<i>Melilotus officinalis</i>	yellow sweetclover	1	0	0	0				
757L	<i>Sorghum halepense</i>	Johnsongrass	0	1	2	0	2	2	2	0
757R	<i>Achillea millefolium</i>	yarrow					1	0	X	X
757R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
757R	<i>Bromus tectorum</i>	cheatgrass					2	0	X	X
757R	<i>Cynodon dactylon</i>	Bermudagrass	2	0	X	X	2	0	X	X
757R	<i>Daucus carota</i>	queen anne's lace					1	0	X	X
757R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
757R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
757R	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
757R	<i>Melilotus officinalis</i>	yellow sweetclover	2	0	X	X				
757R	<i>Sonchus asper</i>	spiny sowthistle					2	1	X	X
757R	<i>Sorghum halepense</i>	Johnsongrass	2	2	X	X	2	0	X	X
757R	<i>Torilis arvensis</i>	spreading hedgeparsley					1	0	X	X
758L	<i>Achillea millefolium</i>	yarrow					2	1	0	0
758L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	0	0				
758L	<i>Bromus japonicus</i>	Japanese brome	1	1	0	0	3	2	0	0
758L	<i>Cynodon dactylon</i>	Bermudagrass	2	0	0	0	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 7. Comparison of 2011 vs. 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
758L	<i>Lactuca serriola</i>	prickly lettuce					2	1	0	0
758L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	3	3	0	2	2	0	0
758L	<i>Medicago lupulina</i>	black medic clover	2	0	0	0				
758L	<i>Medicago minima</i>	burr medic clover					2	0	0	0
758L	<i>Sorghum halepense</i>	Johnsongrass	1	2	3	0	2	2	2	2
758L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	2	2	0	1	1	0	0
758L	<i>Tragopogon dubius</i>	western salsify	1	0	0	0				
758R	<i>Achillea millefolium</i>	yarrow					1	0	X	X
758R	<i>Aegilops cylindrica</i>	jointed goat grass					2	2	X	X
758R	<i>Bromus catharticus</i>	rescue grass					2	0	X	X
758R	<i>Bromus japonicus</i>	Japanese brome	2	2	X	X	2	2	X	X
758R	<i>Bromus tectorum</i>	cheatgrass	3	2	X	X	2	1	X	X
758R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
758R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
758R	<i>Lespedeza cuneata</i>	sericea lespedeza					2	2	X	X
758R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	2	X	X				
758R	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
758R	<i>Sonchus asper</i>	spiny sowthistle					1	2	X	X
758R	<i>Sorghum halepense</i>	Johnsongrass					2	2	X	X
758R	<i>Torilis arvensis</i>	spreading hedgeparsley	3	2	X	X	1	2	X	X
759L	<i>Achillea millefolium</i>	yarrow					2	2	0	0
759L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	0	0	0
759L	<i>Bromus japonicus</i>	Japanese brome	2	0	X	X	3	2	0	0
759L	<i>Cynodon dactylon</i>	Bermudagrass					2	0	0	0
759L	<i>Kummerowia stipulacea</i>	korean lespedeza					2	0	0	0
759L	<i>Lactuca serriola</i>	prickly lettuce					1	0	0	0
759L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X	1	2	0	0
759L	<i>Sorghum halepense</i>	Johnsongrass	1	2	X	X	2	2	0	0
759L	<i>Torilis arvensis</i>	spreading hedgeparsley	1	2	X	X	1	2	0	0
759R	<i>Achillea millefolium</i>	yarrow					0	2	X	X
759R	<i>Aegilops cylindrica</i>	jointed goat grass					1	2	X	X
759R	<i>Albizia julibrissin</i>	mimosa	2	X	X	X				
759R	<i>Bromus japonicus</i>	Japanese brome	2	X	X	X	2	2	X	X
759R	<i>Bromus tectorum</i>	cheatgrass	3	X	X	X	2	2	X	X
759R	<i>Cynodon dactylon</i>	Bermudagrass	2	X	X	X	2	0	X	X
759R	<i>Lactuca serriola</i>	prickly lettuce					2	2	X	X
759R	<i>Lonicera japonica</i>	Japanese honeysuckle	2	X	X	X				
759R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
759R	<i>Sonchus asper</i>	spiny sowthistle					1	1	X	X
759R	<i>Sorghum halepense</i>	Johnsongrass	2	X	X	X	2	2	X	X
759R	<i>Taraxacum officinale</i>	dandelion					1	0	X	X
759R	<i>Torilis arvensis</i>	spreading hedgeparsley	2	X	X	X	2	2	X	X

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Table 7. Comparison of 2011 vs. 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
760L	<i>Achillea millefolium</i>	yarrow					2	2	0	0
760L	<i>Albizia julibrissin</i>	mimosa	1	0	X	X				
760L	<i>Bothriochloa ischaemum</i>	kr bluestem	2	2	X	X	2	0	0	0
760L	<i>Bromus japonicus</i>	Japanese brome	1	0	X	X	3	2	0	0
760L	<i>Cynodon dactylon</i>	Bermudagrass	2	2	X	X	2	0	0	0
760L	<i>Daucus carota</i>	queen anne's lace					1	1	0	0
760L	<i>Kummerowia stipulacea</i>	korean lespedeza					1	0	0	0
760L	<i>Lactuca serriola</i>	prickly lettuce					1	1	0	0
760L	<i>Lespedeza cuneata</i>	sericea lespedeza	2	2	X	X	0	2	0	0
760L	<i>Medicago lupulina</i>	black medic clover	2	0	X	X				
760L	<i>Polygonum convolvulus</i>	climbing buckwheat					1	0	0	0
760L	<i>Sonchus asper</i>	spiny sowthistle					1	1	0	0
760L	<i>Sorghum halepense</i>	Johnsongrass					1	1	0	0
760L	<i>Torilis arvensis</i>	spreading hedgeparsley	0	2	X	X				
760R	<i>Achillea millefolium</i>	yarrow					2	2	X	X
760R	<i>Bothriochloa ischaemum</i>	kr bluestem	2	X	X	X	2	0	X	X
760R	<i>Bromus japonicus</i>	Japanese brome	3	X	X	X	2	2	X	X
760R	<i>Bromus tectorum</i>	cheatgrass	3	X	X	X	2	2	X	X
760R	<i>Cynodon dactylon</i>	Bermudagrass					2	0	X	X
760R	<i>Medicago lupulina</i>	black medic clover	3	X	X	X				
760R	<i>Medicago minima</i>	burr medic clover					2	0	X	X
760R	<i>Melilotus officinalis</i>	yellow sweetclover	1	X	X	X	1	0	X	X
760R	<i>Torilis arvensis</i>	spreading hedgeparsley	3	X	X	X	2	2	X	X

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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

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