

2023 Monarch CCAA Annual Compliance Report

I. Partner Information

Organization Name:	Oklahoma Department of Transportation
Certificate of Inclusion Number:	OKT2020-01
Primary Point of Contact Name:	Amber McIntyre
Address:	3200 Marshall Ave. Suite 110 Norman, Ok 73072
Phone Number:	405-325-7850
Email:	amcintyre@odot.org
Acres Enrolled:	150,472 acres
Adopted Acres Target:	12,038 acres
Adopted Acres Contributed Over Past Year:	10,147.50 acres
If necessary, provide additional explanation or comments related to the enrolled acres and adopted acres values given above.	N/A

II. Summary of Annual Net Conservation Benefit Contribution

Oklahoma Department of Transportation's (OKDOT) proposed target adoption rate for 2023 involved the monitoring of suitable habitat roadway corridors that were identified in collaboration with the OKDOT Field District Maintenance Engineers from the geo-spatial roadway layer that was developed by the OKDOT Natural Resources Program office in 2022. Our adoption rate and acres are an estimate of an anticipated interim implementation period established to reach the full target adoption rate within 5 years.

In Spring of 2023 in-person field meetings were conducted with Field District Maintenance Engineers and Supervisors and additional Adopted Acres were added to the individual Districts contribution from 2022. These new rights-of-way (ROW) corridors targeted for conservation mowing, set asides, and brush management increased OKDOT's pledged adopted acres total to a little over 10,000 acres.

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This on the ground collaboration and use of visual roadway suitability maps with field personnel input has resulted in an increase of approximately 21% from the 2022 adopted acre total (attached effectiveness monitoring table) and exceeded our targeted 3rd year interim Adopted Acre estimate by approximately 3,454 acres.

OKDOT can credit increased awareness from field personnel, engagement by the field Districts in seeking out opportunities to rehabilitate, enhance, and/or create habitat, and collaboration across OKDOT Divisions with this continued commitment to provide on the ground conservation benefit for the species. As an example, during one of our in-person meetings the Field District in Northwestern Oklahoma contributed their entire suitable roadway system to the program.

Three Energy sector partners have also become recent enrollees in the Monarch CCAA in the State of Oklahoma. These include ITC Holdings, Northern Natural Gas, and Phillips 66. Northern Natural Gas reported an overlap of adopted acres of 0.658872 acres in Beaver County.

Supplemental activities that promote monarch habitat resources and strengthen conservation practices across OKDOT Districts, partner agencies, and national partners implemented in 2023 include:

- Distribute updated ROWs landscape prioritization maps of monarch roadside habitat in Oklahoma to field district and supporting organizations.
- Maintain monarch resource educational display gardens at OKDOT State Capitol Complex building and Oklahoma State Travel and Tourism Centers
- Present information on Monarch CCAA Program implementation to 2023 National Rights-of-Way Vegetative Managers Association Annual Conference in Knoxville, Tennessee
- Participate as steering committee member to the Oklahoma Monarch and Pollinator Collaborative
 (http://www.okiesformonarchs.org), a multi-agency group providing resources to state residents and agencies as part of the statewide Monarch Conservation Plan
- Deliver Monarch conservation best practices presentations and develop educational materials for events and outreach to local municipalities and industry partners such as the City of Norman Pollinator Week, Monarch Festival, and Earth Day celebration.
- Presentation on OKDOT Monarch Program activities at the 2023 Keep Oklahoma Beautiful Fall Workshop.
- Sitting member of the Transportation Research Board AKR20 Subcommittee on Pollinators.
- Received the Keep Oklahoma Beautiful 2023 State Government Program Environmental Excellence Award in recognition of the Department's Monarch Program activities.

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III. Summary of Effectiveness Monitoring Conducted

Effectiveness monitoring was conducted in late spring, summer, and early fall of 2023 on 78 sites across the enrolled OKDOT land system. Monitoring field inventory activities were conducted by OKDOT Natural Resources Program biologist using the Tier 3 scorecard in 8 of OKDOT maintenance districts. Sites were chosen randomly through ArcGIS randomization tool overlayed on OKDOT suitability roadway layers and from idle lands identified by the Field Districts.

Existing conservation measures within the 78 sites encompass conservation mowing, herbicide applications, native plant seeding, and suitable habitat within idle lands and set asides.

Monitoring target results include -

- 61 (78%) of the sites contained 2 or more milkweed stems. The total milkweed stem count was 4,133, representing 8 Asclepias species.
- 51 (65%) of the sites contained greater than 10% nectar resources.

Oklahoma experienced a cool spring and unusually high rains during the summer, the bloom time period in the western part of the state was extended due to these rains. Several Asclepias species which had not been catalogued for several decades were found during the summer surveys and nectar resources were extended into the early fall.

IV. Upcoming Year Annual Forecast

In 2024 the OKDOT Natural Resources Program will continue close collaboration with the Field Maintenance Districts in identifying suitable habitat within rights-of ways using the developed suitability roadway layers. We will also work closely with the Oklahoma State University Roadside Vegetation Management Team to develop monarch friendly herbicide BMPs outside the safety zone and explore new methods and equipment to enhance existing vegetative management practices on OKDOT adopted acres.

We expect that we will meet our complete adopted acre target of 12,038 acres in year 4. In person meetings will be conducted in the Field Districts in late winter/ early spring of 2024 and we will review our adopted acre contribution during that period.

V. Attachments

- Implementation Compliance Tracking spreadsheet
- Effectiveness Monitoring spreadsheet
- Monitoring Maps
- Awards and Recognition press releases

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Compliance Tracking Table for the Monarch CCAA/CCA

Organization Name	Oklahoma Department of Transportation
CI Tracking No.	OKT2020-01
Date of CI Approval	11/30/2020
Compliance Year	2023

 Adopted Acres Target
 7,223

 No. of Annual Samplin
 77

	Compliance Tracking Fields									
Site ID	Acres	State	County	Region (auto-filled)	Conservation Measure	Status	Date Completed	Partner Overlap	Data Source(s)	Additional Notes
KD0T23.D1-S1	16	ок	Wagoner	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/21/2023		GIS Map	
KD0T23.D1-S2	16	ок	Wagoner	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/21/2023		GIS Map	
OKDOT23.D1-S3	72.5	ок	Muskogee	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/21/2023		GIS Map	
OKDOT23.D1-S4	72.5	ок	Muskogee	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/21/2023		GIS Map	
OKDOT23.D1-S5	132	ок	McIntosh	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/23/2023		GIS Map	
KDOT23.D1-S6	132	ок	McIntosh	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/23/2023		GIS Map	
OKDOT23.D1-S7	132	ок	Muskogee	Western and Southern U.S.	enhance floral resource	Monitoring Complete	6/23/2023		GIS Map	
OKDOT23.D1-S8	63	ок	Muskogee	Western and Southern U.S.	Suitable habitat idle lands, or set-asides	Implemented	6/29/2023		GIS Map	
OKDOT23.D1-S9	26.5	ок	Muskogee	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/29/2023		GIS Map	
OKDOT23.D2-S1	30	ок	Carter	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/13/2023		GIS Map	
OKDOT23.D2-S2	30	ок	Carter	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/13/2023		GIS Map	
OKDOT23.D2-S3	277	ок	Atoka	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	8/9/2023		GIS Map	
OKDOT23.D2-S5	112	ок	Latimer	Western and Southern U.S.	enhance floral resource	Monitoring Complete	8/9/2023		GIS Map	
OKDOT23.D2-S13	33	ок	McCurtain	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	8/9/2023		GIS Map	
)KD0T23.D2-S14	33	ок	McCurtain	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	8/9/2023		GIS Map	
DKDOT23.D3-S1	1	ОК	Pontotoc	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	5/25/2023		WF Records	
OKDOT23.D3-S2	100	ок	Pottawatomie	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat	Monitoring Complete	6/29/2023		GIS Map	
OKDOT23.D3-S3	52	ОК	Seminole	Western and Southern U.S.	Suitable habitat idle lands, or set-asides	Implemented	6/29/2023		WF Records	
OKDOT23.D3-S4	98	ок	Seminole	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat	Monitoring Complete	6/29/2023		GIS Map	
OKDOT23.D3-S5	98	ок	Okfuskee	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/29/2023		GIS Map	
OKDOT23.D3-S6	108	ОК	McClain	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	7/3/2023		GIS Map	
OKDOT23.D3-S7	108	ок	McClain	Western and Southern U.S.	enhance floral resource	Monitoring Complete	7/3/2023		GIS Map	
OKDOT23.D3-S8	109	OK	Garvin	Western and Southern U.S.	enhance floral resource	Monitoring Complete	7/3/2023		GIS Map	
OKDOT23.D3-S9	11	ОК	Cleveland	Western and Southern U.S.	Seeding and planting to restore or create habitat	Monitoring Complete	7/3/2023		GIS Map	
OKDOT23.D3-S10	18	ок	Hughes	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	7/14/2023		GIS Map	
OKDOT23.D3-S11	18	ок	Hughes	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	7/14/2023		GIS Map	
OKDOT23.D3-S12	18	ок	Hughes	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	7/14/2023		WF Records	
KD0T23.D4-S1	57	OK	Payne	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	5/12/2023		GIS Map	
0KD0T23.D4-S2	57	ок	Payne	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	5/12/2023		GIS Map	
OKDOT23.D4-S3	57	ок	Payne	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	5/12/2023		GIS Map	
OKDOT23.D4-S4	57	ок	Payne	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	5/24/2023		GIS Map	
OKDOT23.D4-95	507	ок	Payne	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat Conservation mowing to	Monitoring Complete	5/24/2023		GIS Map	
OKDOT23.D4-S6	507	ок	Noble	Western and Southern U.S.	enhance floral resource	Monitoring Complete	5/24/2023		GIS Map	

OKDOT23.D4-S7	507	ок	Noble	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	5/24/2023	GIS Map	
OKDOT23.D4-S8	507	ок	Noble	Western and Southern U.S.	habitat Conservation mowing to	Monitoring Complete		GIS Map	
OKDOT23.D4-S9	507	ок		Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete		GIS Map	
			Kay		enhance floral resource habitat Suitable habitat idle			WF	
OKDOT23.D4-S10	5	ОК	Logan	Western and Southern U.S.	lands, or set-asides Conservation mowing to	Implemented	5/24/2023	Records	
OKDOT23.D4-S11	54	OK	Payne	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/21/2023	GIS Map	
OKDOT23.D4-S12	59	ок	Payne	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	6/21/2023	GIS Map	
OKDOT23.D5-S1	230	ок	Kiowa	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	7/13/2023	GIS Map	
OKDOT23.D5-S2	93.5	ок	Kiowa	Western and Southern U.S.	enhance floral resource	Monitoring Complete	7/13/2023	GIS Map	
OKDOT23.D5-S3	93.5	ок	Kiowa	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource habitat	Monitoring Complete	7/13/2023	GIS Map	
OKDOT23.D5-S4	230	ок	Jackson	Western and Southern U.S.	enhance floral resource	Monitoring Complete	7/13/2023	GIS Map	
OKDOT23.D5-S5	231	ок	Jackson	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/13/2023	GIS Map	
OKDOT23.D5-S6	195	ок	Tilman	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/13/2023	GIS Map	
OKDOT23.D6-S1	178.7	ок	Harper	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete	7/5/2023	GIS Map	
OKDOT23.D6-S2	178.7	ок	Harper	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/5/2023	GIS Map	
OKDOT23.D6-S3	178.7	OK	Harper	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete	7/5/2023	GIS Map	
OKDOT23.D6-S4	178.7	OK	Ellis	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete		GIS Map	
OKDOT23.D6-S5	178.7	ок	Cimarron	Western and Southern U.S.	hahitat Conservation mowing to enhance floral resource	Monitoring Complete	7/6/2023	GIS Map	
				Western and Southern U.S.	hahitat Conservation mowing to				
OKDOT23.D6-S6	178.7	OK	Cimarron		enhance floral resource habitat Conservation mowing to	Monitoring Complete	7/6/2023	GIS Map	
OKDOT23.D6-S7	178.7	ОК	Cimarron	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete		GIS Map	
OKDOT23.D6-S8	178.7	OK	Cimarron	Western and Southern U.S.	enhance floral resource Conservation mowing to	Monitoring Complete		GIS Map	
OKDOT23.D6-S9	178.7	ок	Alfalfa	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete		GIS Map	
OKDOT23.D6-S10	178.7	ок	Alfalfa	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete		GIS Map	
OKDOT23.D6-S11	178.7	ОК	Alfalfa	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	8/3/2023	GIS Map	
OKDOT23.D6-S12	178.7	ок	Woodward	Western and Southern U.S.	enhance floral resource habitat Conservation mowing to	Monitoring Complete	8/3/2023	GIS Map	
OKDOT23.D6-S13	178.7	ок	Woodward	Western and Southern U.S.	enhance floral resource	Monitoring Complete	8/3/2023	GIS Map	
OKDOT23.D6-S14	178.7	ок	Woodward	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat	Monitoring Complete	8/3/2023	GIS Map	
OKDOT23.D6-S15	178.7	ок	Texas	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat	Monitoring Complete	8/4/2023	GIS Map	
OKDOT23.D6-S16	178.7	ок	Major	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	8/4/2023	GIS Map	
OKDOT23.D7-S1	171.5	ок	Comanche	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource habitat	Monitoring Complete	7/1/2023	GIS Map	
OKDOT23.D7-S2	171.5	ок	Comanche	Western and Southern U.S.	Conservation mowing to enhance floral resource habitat	Implemented	7/13/2023	GIS Map	
OKDOT23.D7-S3	22	ок	Garvin	Western and Southern U.S.	Suitable habitat idle lands, or set-asides	Implemented	7/20/2023	WF Records	
OKDOT23.D7-S4	9	ок	Murray	Western and Southern U.S.	Suitable habitat idle lands, or set-asides	Monitoring Complete	7/26/2023	WF Records	
OKDOT23.D7-S6	22.4	ок	Carter	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/26/2023	GIS Map	
OKDOT23.D7-S7	21.3	ок	Love	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete	7/26/2023	GIS Map	
OKDOT23.D7-S9	37.1	ок	Love	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete	7/26/2023	GIS Map	
OKDOT23.D7-S10	166	ок	Stephens	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete	7/20/2023	GIS Map	
OKDOT23.D7-S11	166	ок	Stephens	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete	7/20/2023	GIS Map	
OKDOT23.D7-S12	118.5	OK	Stephens	Western and Southern U.S.	habitat Conservation mowing to enhance floral resource	Monitoring Complete	7/20/2023	GIS Map	
OKDOT23.D7-S13	118.5	ок	Stephens	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/20/2023	GIS Map	
OKDOT23.D8-S1	82	ок	Creek	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/27/2023	GIS Map	
OKDOT23.D8-S2	82	ок	Pawnee	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/27/2023	GIS Map	
OKDOT23.D8-S3	76.5	ок	Osage	Western and Southern U.S.	Conservation mowing to enhance floral resource Conservation mowing to	Monitoring Complete	7/27/2023	GIS Map	
OKDOT23.D8-S4	76.5	ок	Osage	Western and Southern U.S.	enhance floral resource	Monitoring Complete	7/27/2023	GIS Map	
OKDOT23.D8-S5	39	ок	Tulsa	Western and Southern U.S.	Conservation mowing to enhance floral resource	Monitoring Complete	7/27/2023	GIS Map	
OKDOT23.D8-S6	39	ок	Rogers	Western and Southern U.S.	enhance floral resource	Monitoring Complete		GIS Map	

Effectiveness Monitoring Table for the Monarch CCAA/CCA

Organization Name	Oklahoma Department of Transportation
CI Tracking No.	OKT2020-01
Date of Cl Approval	11/30/2020
Monitoring Year	2023

Adopted Acres Target	12,038	
Interim Adopted Acres Target	7,223	
Number of Annual Monitoring Plots	77	1

Optional data

							Effectiveness Mo	nitoring Fields						
Site ID	State	County		Conservation Measure(s) Monit		Sample Location	Date	Observer Name	Milkweed Present at CCAA Target Level? (2+ stems)	Milkweed Count	Nectar Resources Present at CCAA Target Level?	Nectar Resource s Cover	Nectar Resource s Cover Mid-Value (ਭਗਰ- ਸ਼ੀਵਿਟੀ	Monarchs Observed
OKDOT23.D1-S1	ок	Wagoner	Conservation mowing to enhance floral resource habitat		OKDOT23.D1-S1	State Highway 72	6/21/2023	Harmon	Yes	10	Yes	1-10	6	No
OKDOT23.D1-S2	ок	Muskogee	Conservation mowing to enhance floral resource		OKDOT23.D1-S2	State Highway 62	6/21/2023	Harmon	No	0	Yes	1-10	6	No
OKDOT23.D1-S3	ок	Muskogee	Conservation mowing to enhance floral resource		OKDOT23.D1-S3	State Highway 62	6/21/2023	Harmon	Yes	149	Yes	26-50	38	No
OKDOT23.D1-S4	ок	Muskogee	Conservation mowing to enhance floral resource		OKDOT23.D1-S4	State Highway 62	6/21/2023	Harmon	Yes	201	Yes	26-50	38	No
OKDOT23.D1-S5	ок	Mointosh	Conservation mowing to enhance floral resource		OKDOT23.D1-S5	Interstate 40	6/23/2023	Harmon	Yes	25	Yes	1-10	6	No
OKDOT23.D1-S6	ок	McIntosh	Conservation mowing to enhance floral resource		OKDOT23.D1-S6	Interstate 40	6/23/2023	Harmon	Yes	12	Yes	26-50	38	No
OKDOT23.D1-S7	ок	Muskogee	Conservation mowing to enhance floral resource		OKDOT23.D1-S7	Interstate 40	6/23/2023	Harmon	Yes	75	Yes	11-25	18	No
OKDOT23.D1-S8	ок	Muskogee	Suitable habitat idle lands, or set-asides		OKDOT23.D1-S8	US 69	6/29/2023	Harmon	Yes	16	Yes	1-10	6	No
OKDOT23.D1-S9	ок	Muskogee	Conservation mowing to enhance floral resource		OKDOT23.D1-S9	US 69	6/29/2023	Harmon	Yes	210	Yes	26-50	38	No
OKDOT23.D2-S1	ок	Carter	Conservation mowing to enhance floral resource		OKDOT23.D2-S1	US 70	6/13/2023	Harmon	Yes	2	Yes	11-25	18	No
OKDOT23.D2-S2	ок	Carter	Conservation mowing to enhance floral resource		OKDOT23.D2-S2	US 70	6/13/2023	Harmon	Yes	10	Yes	51-75	63	No
OKDOT23.D2-S3	ок	Atoka	Conservation mowing to enhance floral resource		OKDOT23.D2-S3	State Highway 43	8/9/2023	Harmon/Taylor	Yes	11	Yes	1-10	6	No
OKDOT23.D2-S5	ок	Latimer	Conservation mowing to enhance floral resource		OKDOT23.D2-S5	State Highway 82	8/9/2023	Harmon/Taylor	No	0	Yes	1-10	6	No
OKDOT23.D2-S13	ок	McCurtain	Conservation mowing to enhance floral resource		OKDOT23.D2-S13	State Highway 3	8/9/2023	Harmon/Taylor	No	1	Yes	1-10	6	No
OKDOT23.D2-S14	ок	McCurtain	Conservation mowing to enhance floral resource		OKDOT23.D2-S14	State Highway 3	8/9/2023	Harmon/Taylor	No	0	Yes	1-10	6	No
OKDOT23.D3-S1	ок	Pontotoc	Suitable habitat idle lands, or set-asides	Conservation mowing to enhance floral resource	OKDOT23.D3-S1	State Highway 3W	5/25/2023	Harmon/Taylor	Yes	112	Yes	26-50	38	Yes
OKDOT23.D3-S2	ок	Pottawatomie	Conservation mowing to enhance floral resource		OKDOT23.D3-S2	Interstate 40	6/29/2023	Harmon	Yes	85	Yes	26-50	38	No
OKDOT23.D3-S3	ок	Seminole	Suitable habitat idle lands, or set-asides	Conservation mowing to enhance floral resource	OKDOT23.D3-S3	Interstate 40	6/29/2023	Harmon	Yes	59	Yes	1-10	6	No
OKDOT23.D3-S4	ок	Seminole	Conservation mowing to enhance COTALERSQUEEP		OKDOT23.D3-S4	Interstate 40	6/29/2023	Harmon	No	1	Yes	1-10	6	No
OKDOT23.D3-5	ок	Okfuskee	mowing to enhance floral resource		OKDOT23.D3-5	Interstate 40	6/29/2023	Harmon	Yes	49	Yes	26-50	38	No
OKDOT23.D3-S6	ок	McClain	mowing to enhance floral resource		OKDOT23.D3-S6	Interstate 35	7/3/2023	Harmon	No	0	Yes	1-10	6	No
OKDOT23.D3-S7	ок	McClain	Conservation mowing to enhance floral resource		OKDOT23.D3-S7	Interstate 35	7/3/2023	Harmon	Yes	18	Yes	11-25	18	No

OKDOT23.D3-S8	ок	Garvin	Conservation mowing to enhance floral resource		OKDOT23.D3-S8	Interstate 35	7/3/2023	Harmon	Yes	29	Yes	26-50	38	No
OKDOT23.D3-S9	ок	Cleveland	Seeding and planting to restore or create habitat		OKDOT23.D3-S9	Interstate 35	7/4/2023	Harmon	Yes	5	Yes	11-25	18	No
OKDOT23.D3-S10	ок	Hughes	Conservation mowing to enhance	in names mine	OKDOT23.D3-S10	US 270	7/14/2023	Harmon/Taylor	Yes	13	Yes	26-50	38	No
OKDOT23.D3-S11	ок	Hughes	Coras Gradusce mowing to enhance floral resource		OKDOT23.D3-S11	US 270	7/14/2023	Harmon/Taylor	Yes	4	Yes	51-75	63	Yes
OKDOT23.D3-S12	ок	Hughes	Conservation mowing to enhance		OKDOT23.D3-S12	US 270 & SH 48 JC1	7/14/2023	Harmon/Taylor	Yes	22	Yes	26-50	38	No
OKDOT23.D4-S1	ОК	Payne	HOTAL CASALITIES mowing to enhance floral resource		OKDOT23.D4-S1	State Highway 51	5/12/2023	Harmon/Taylor	Yes	257	Yes	1-10	6	No
OKDOT23.D4-S2	ОК	Payne	Conservation mowing to enhance		OKDOT23.D4-S2	State Highway 51	5/12/2023	Harmon/Taylor	Yes	304	Yes	11-25	18	No
OKDOT23.D4-S3	ОК	Payne	floral resource Conservation mowing to enhance		OKDOT23.D4-S3	State Highway 51	5/12/2023	Harmon/Taylor	Yes	49	Yes	1-10	6	No
OKDOT23.D4-S4	ОК	Payne	floral resource Conservation mowing to enhance		OKDOT23.D4-S4	State Highway 51	5/12/2023	Harmon/Taylor	Yes	185	Yes	1-10	6	No
OKDOT23.D4-S5	ОК	Payne	floral resource Conservation mowing to enhance		OKDOT23.D4-S5	Interstate 35	5/24/2023	Harmon/Taylor	Yes	64	Yes	26-50	38	No
OKDOT23.D4-S6	ОК	Noble	floral resource Conservation mowing to enhance		OKDOT23.D4-S6	Interstate 35	5/24/2023	Harmon/Taylor	Yes	110	Yes	1-5	18	Yes
OKDOT23.D4-S7	ОК	Noble	floral resource Conservation mowing to enhance		OKDOT23.D4-S7	Interstate 35	5/24/2023	Harmon/Taylor	Yes	137	Yes	1-5	18	No
OKDOT23.D4-S8	ОК	Noble	floral resource Conservation mowing to enhance		OKDOT23.D4-S8	Interstate 35	5/24/2023	Harmon/Taylor	Yes	581	Yes	1-5	18	Yes
OKDOT23.D4-S9	ОК	Kay	floral resource Conservation mowing to enhance		OKDOT23.D4-S9	Interstate 35	5/24/2023	Harmon/Taylor	Yes	44		1-5	18	No
OKDOT23.D4-S10	ОК	Logan	floral resource Suitable habitat idle lands, or set-asides	Conservation mowing to enhance	OKDOT23.D4-S10	Interstate 35	5/24/2023	Harmon/Taylor	Yes	11	Yes	26-50	38	No
OKDOT23.D4-S11	ОК	Payne	Conservation mowing to enhance	floral resource	OKDOT23.D4-S11	State Highway 51	6/21/2023	Harmon	Yes	27	Yes	26-50	38	No
OKDOT23.D4-S12	ОК	Payne	floral resource Conservation mowing to enhance		OKDOT23.D4-S12	State Highway 51	6/21/2023	Harmon	Yes	223	Yes	26-50	38	No
OKDOT23.D5-S1	ОК	Kiowa	floral resource Conservation mowing to enhance		OKDOT23.D5-S1	US 62	7/13/2023	Harmon/Taylor	No	0	Yes	1-10%	6	No
OKDOT23.D5-S2	ОК	Kiowa	floral resource Conservation mowing to enhance		OKDOT23.D5-S2	US 183	7/13/2023	Harmon/Taylor	Yes	2	Yes	1-10	6	No
OKDOT23.D5-S3	ОК	Kiowa	floral resource Conservation		OKDOT23.D5-S3	US 183	7/13/2023	Harmon/Taylor	No	0	Yes	1-10	le le	No
OKDOT23.D5-S4	ОК	Jackson	mowing to enhance floral resource Conservation		OKDOT23.D5-S4	US 62	7/13/2023	Harmon/Taylor	No	0	Yes	1-10		No
OKDOT23.D5-S5	ОК	Jackson	mowing to enhance floral resource Conservation		OKDOT23.D5-S5	US 62	7/13/2023	-	Yes	66	Yes	1-10		No
OKDOT23.D5-S6	ОК	Tilman	mowing to enhance floral resource Conservation		OKDOT23.D5-S6	US 183	7/13/2023	Harmon/Taylor	Yes	10	Yes	26-50	38	No
			mowing to enhance floral resource Conservation					Harmon/Taylor		10			38	
OKDOT23.D6-S1	ОК	Harper	mowing to enhance floral resource Conservation		OKDOT23.D6-S1	US 183	7/5/2023	Harmon	Yes	7	Yes	11-25	18	No
OKDOT23.D6-S2	ОК	Harper	mowing to enhance Constructor		OKDOT23.D6-S2	US 183	7/5/2023	Harmon	Yes	13	Yes	26-50	38	No
OKDOT23.D6-S3	ОК	Harper	mowing to enhance floral resource Conservation		OKDOT23.D6-S3	Highway 46 JCT	7/5/2023	Harmon	Yes	21	Yes	76-100	88	No
OKDOT23.D6-S4	ОК	Ellis	mowing to enhance floral resource Conservation		OKDOT23.D6-S4	State Highway 46	7/5/2023	Harmon	Yes	15	Yes	1-10	6	No
OKDOT23.D6-S5	ОК	Cimarron	mowing to enhance floral resource Conservation		OKDOT23.D6-S5	US 412 & US 287 JC1	7/6/2023	Harmon	Yes	51	Yes	76-100	88	No
OKDOT23.D6-S6	ок	Cimarron	mowing to enhance floral resource Conservation		OKDOT23.D6-S6	State Highway 325	7/6/2023	Harmon	Yes	11	Yes	11-25	18	No
OKDOT23.D6-S7	ОК	Cimarron	mowing to enhance floral resource Conservation		OKDOT23.D6-S7	State Highway 325	7/6/2023	Harmon	Yes	12	Yes	26-50	38	No
OKDOT23.D6-S8	ок	Cimarron	mowing to enhance floral resource		OKDOT23.D6-S8	US 287	7/6/2023	Harmon	Yes	5	Yes	26-50	38	No

OKDOT23.D6-S9	ок	Alfalfa	Conservation mowing to enhance floral resource	OKDOT23.D6-S9	State Highway 11	8/3/2023	Harmon	No	0	Yes	11-25	18	No
OKDOT23.D6-S10	ок	Alfalfa	Conservation mowing to enhance floral resource	OKDOT23.D6-S10	State Highway 11	8/3/2023	Harmon	Yes	23	Yes	26-50	38	Yes
OKDOT23.D6-S11	ок	Alfalfa	Conservation mowing to enhance floral resource	OKDOT23.D6-S11	State Highway 11	8/3/2023	Harmon	No	0	No	0	0	No
OKDOT23.D6-S12	ок	Woodward	Conservation mowing to enhance floral resource	OKDOT23.D6-S12	State Highway 50	8/3/2023	Harmon	No	0	Yes	1-10	6	No
OKDOT23.D6-S13	ок	Woodward	Conservation mowing to enhance floral resource	OKDOT23.D6-S13	State Highway 50	8/3/2023	Harmon	No	0	Yes	51-75	63	No
OKDOT23.D6-S14	ок	Texas	Conservation mowing to enhance floral resource	OKDOT23.D6-S14	US 412	8/3/2023	Harmon	Yes	25	Yes	26-50	38	No
OKDOT23.D6-S15	ок	Major	Conservation mowing to enhance	OKDOT23.D6-S15	US 281	8/4/2023	Harmon	Yes	7	Yes	26-50	38	No
OKDOT23.D6-S16	ок	Major	floral resource Conservation mowing to enhance floral resource	OKDOT23.D6-S16	US 281	8/4/2023	Harmon	Yes	11	Yes	51-75	63	No
OKDOT23.D7-S1	ок	Comanche	Conservation mowing to enhance floral resource	OKDOT23.D7-S1	US 62	7/13/2023	Harmon/Taylor	No	0	Yes	1-10	6	No
OKDOT23.D7-S2	ок	Comanche	Conservation mowing to enhance floral resource	OKDOT23.D7-S2	US-62	7/13/2023	Harmon/Taylor	Yes	87	Yes	26-50	38	No
OKDOT23.D7-S3	ок	Garvin	Suitable habitat idle lands, or set-asides	OKDOT23.D7-S3	Interstate 35	7/20/2023	Harmon	Yes	61	Yes	51-75	63	No
OKDOT23.D7-S4	ок	Murray	Suitable habitat idle lands, or set-asides	OKDOT23.D7-S4	Interstate 35	7/26/2023	Harmon	Yes	7	Yes	11-25	18	No
OKDOT23.D7-S6	ок	Carter	Conservation mowing to enhance floral resource	OKDOT23.D7-S6	Interstate 35	7/26/2023	Harmon	Yes	131	Yes	1-10	6	No
OKDOT23.D7-S7	ок	Love	Conservation mowing to enhance floral resource	OKDOT23.D7-S7	Interstate 35	7/26/2023	Harmon	Yes	17	Yes	26-50	38	No
OKDOT23.D7-S9	ок	Love	Conservation mowing to enhance floral resource	OKDOT23.D7-S9	Interstate 35	7/26/2023	Harmon	Yes	18	Yes	26-50	38	No
OKDOT23.D7-S10	ок	Stephens	Conservation mowing to enhance floral resource	OKDOT23.D7-S10	State Highway 7	7/20/2023	Harmon	Yes	25	Yes	11-25	18	No
OKDOT23.D7-S11	ок	Stephens	Conservation mowing to enhance	OKDOT23.D7-S11	State Highway 7	7/20/2023	Harmon	Yes	37	Yes	26-50	38	No
OKDOT23.D7-S12	ок	Stephens	floral resource Conservation mowing to enhance floral resource	OKDOT23.D7-S12	US 81	7/20/2023	Harmon	Yes	50	Yes	26-50	38	No
OKDOT23.D7-S13	ок	Jefferson	mowing to enhance floral resource	OKDOT23.D7-S13	US 81	7/20/2023	Harmon	Yes	31	Yes	26-50	38	No
OKDOT23.D8-S1	ок	Creek	mowing to enhance floral resource	OKDOT23.D8-S1	State Highway 48	7/27/2023	Harmon/Taylor	No	0	Yes	1-10	6	No
OKDOT23.D8-S2	ОК	Pawnee	mowing to enhance floral resource	OKDOT23.D8-S2	State Highway 48	7/27/2023	Harmon/Taylor	Yes	56	Yes	76-100	18	No
OKDOT23.D8-S3	ОК	Osage	mowing to enhance floral resource	OKDOT23.D8-S3	State Highway 20	7/27/2023	Harmon/Taylor	Yes	24	Yes	1-10	6	No
OKDOT23.D8-S4	ОК	Osage	mowing to enhance floral resource	OKDOT23.D8-S4	State Highway 20	7/27/2023	Harmon/Taylor	Yes	90	Yes	26-50	38	No
OKDOT23.D8-S5	ок	Tulsa	mowing to enhance floral resource	OKDOT23.D8-S5	US 169	7/27/2023	Harmon/Taylor	Yes	11	Yes	1-10	6	No
OKDOT23.D8-S6	ок	Rogers	mowing to enhance floral resource	OKDOT23.D8-S6	US 169	7/27/2023	Harmon/Taylor	Yes	98	Yes	26-50	38	No

Monarch CCAA for Energy and Transportation Lands Monitoring Results Calculator

Partner Name: Oklahoma Department of Transportation

Date:



Site ID	Milkweed Count	Nectar Resources Cover (%)	Notes
OKDOT23.D1-S1	10	6	
OKDOT23.D1-S2	0	6	
OKDOT23.D1-S3	149	38	
OKDOT23.D1-S4	201	38	
	25		
OKDOT23.D1-S5		6	
OKDOT23.D1-S6	12	38	
OKDOT23.D1-S7	75	18	
OKDOT23.D1-S8	16	6	
OKDOT23.D1-S9	210	38	
OKDOT23.D2-S1	2	18	
OKDOT23.D2-S2	10	63	
OKDOT23.D2-S3	11	6	
#REF!			#REF!
		•	
OKDOT23.D2-S5	0	6	
OKDOT23.D2-S13 OKDOT23.D2-S14	1 0	6	
	-	38	
OKDOT23.D3-S1 OKDOT23.D3-S2	112 85	38	
OKDOT23.D3-S3	59	6	
OKDOT23.D3-S4	1	6	
OKDOT23.D3-S5	49	38	
OKDOT23.D3-S6	0	6	
OKDOT23.D3-S7	18	18	
OKDOT23.D3-S8	29	38	
OKDOT23.D3-S9	5	18	
OKDOT23.D3-S10	13	38	
OKDOT23.D3-S11	4	63	
OKDOT23.D3-S12	22	38	
OKDOT23.D4-S1	257	6	
OKDOT23.D4-S2	304	18	
OKDOT23.D4-S3	49	6	
OKDOT23.D4-S4 OKDOT23.D4-S5	185 64	6 38	
OKDOT23.D4-S6	110	18	
OKDOT23.D4-S7 OKDOT23.D4-S8	137 581	18 18	
OKDOT23.D4-S9	44	18	
OKDOT23.D4-S10	11	38	
OKDOT23.D4-S11	27	38	
OKDOT23.D4-S12	223	38	
OKDOT23.D5-S1	0	6	
OKDOT23.D5-S2	2	6	
OKDOT23.D5-S3	0	6	
OKDOT23.D5-S4	0	6	
OKDOT23.D5-S5	66	6	
OKDOT23.D5-S6	10	38	
OKDOT23.D6-S1	7	18	
OKDOT23.D6-S2	13	38	
OKDOT23.D6-S3	21	88	
OKDOT23.D6-S4	15	6	
OKDOT23.D6-S5	51	88	
OKDOT23.D6-S6	11	18	
OKDOT23.D6-S7	12	38	
OKDOT23.D6-S8	5	38	
OKDOT23.D6-S9	0	18	
OKDOT23.D6-S10	23	38	
OKDOT23.D6-S11	0	0	
OKDOT23.D6-S12	0	6	
OKDOT23.D6-S13	0	63	
OKDOT23.D6-S14	25	38	
OKDOT23.D6-S15	7	38	
OKDOT23.D6-S16	11	63	
OKDOT23.D7-S1	0	6	
OKDOT23.D7-S2	87	38	
OKDOT23.D7-S3	61	63	
OKDOT23.D7-S4	7	18	
OKDOT23.D7-S6 OKDOT23.D7-S7	131 17	6 38	
OKDOT23.D7-S7 OKDOT23.D7-S9	17	38	
OKDOT23.D7-S9	25	18	
OKDOT23.D7-S10	25 37	38	
OKDOT23.D7-S12	50	38	
OKDOT23.D7-S12	31	38	
OKDO123.D7-313 OKDOT23.D8-S1	0	6	
OKDOT23.D8-S2	56	18	
OKDOT23.D8-S3	24	6	
OKDOT23.D8-S4	90	38	
OKDOT23.D8-S5	11	6	
OKDOT23.D8-S6	98	38	

Did I Achieve My Monitoring Target?

Congratulations on achieving the target!

1		0% confident our adopted ampled contain at least:	acres
- /	36.2	stems/plot, or at least	
	1052	stems/acre*	

Nectar Plants Percent Cover Summary	Target Achieved? ✓	
Total # of Plots with Nectar Plants (Any)	77.0	
Total # of Plots with >10% Nectar Plants	51.0	
Percentage of Plots with >10% Nectar Plants	65%	
Mean	25.9	
Standard Deviation	20.0	
Minimum	0.0	
Maximum	88.0	
Plots Sampled	78.0	
Carefidance Interval (000/)	2.0	



How is this data populated?

The values that populate the table to the left (including Site ID, Milkweed Count, Nectar Resource Cover, and Notes) come directly from the INPUT datasheets included in this tool. The calculated midrage of nectar resource percent cover is used in place of the entered range for summary statistic















