Building Conservation Collections of *Prunus* spp. and Associated Species of Greatest Conservation Need in Central Texas



Lithospermum helleri (Heller's marbleseed) in flower 1 April 2024 in Warbler Canyon, Barton Creek Habitat Preserve. Photo by JF.

2024 Report

Submitted to The Nature Conservancy of Texas 12 December 2024
by Jonathan A. Flickinger, Lady Bird Johnson Wildflower Center

Project Summary

Barton Creek Habitat Preserve was visited six times between March and July of 2024 to scout and make collections of *Prunus minutiflora* (Texas almond) and *Lithospermum* (= *Onosmodium*) *helleri* (Heller's marbleseed). A total of 600 1-seeded nutlets of *L. helleri* were collected from three areas of the preserve in May, although some bad seeds were discarded (Table 1, Figs. 1–5). Two initial collections were made in bulk before switching to collection by maternal line. All seeds of *L. helleri* are currently being stored at -20°C in the seed bank of the Lady Bird Johnson Wildflower Center until an appropriate backup facility can be identified. Two known populations of *Prunus minutiflora* were also surveyed and monitored for seed collection. In June, the population on the Quonset Hut burn unit was found to consist of approximately 248 plants, of which 49 were fruiting, spread over an area of ca. 1 ha. A collection of 158 1-seeded drupes from 40 maternal lines was made while surveying the population (Table 1, Figs. 6,7). Seeds are currently being stored in refrigeration at the Wildflower Center pending the results of germination trials. The *P. minutiflora* population on the north side of Vireo Hill was surveyed in July (Fig. 8). Approximately 105 living plants were found in an area of 255 m^2. The plants were mostly resprouting from the base, and no evidence of flowering or fruiting was found. Voucher specimens for seed collections were prepared from the Palmetto Canyon population of *L. helleri* and the Quonset Hut population of *P. minutiflora* (Table 2). All herbarium specimens are currently being held at the Wildflower Center's herbarium (JWC), with distribution of duplicates (likely to BRIT and/or SRSC) planned for early 2025. See Table 3 for coordinates of relevant locations in the preserve, and Appendix 1 for full details of seed collections. Priorities for possible future work in the preserve would be monitoring the Vireo Hill *P. minutiflora* population for seed production and collection of additional target species such as *Brickellia dentata* (gravelbar brickellbush).

Love Creek Preserve was visited once in September 2024 for seed collections (Fig. 9). Fruits of *Prunus serotina* var. *eximia* (escarpment black cherry), one of the target species, were not encountered, but fruits were scarce across the range of this taxon in 2024. One collection of 68 1-seeded achenes from 2 plants of *Clematis texensis* (scarlet leatherflower) was made along the lower reaches of Love Creek (Fig. 10, Appendix 1). In addition, two reproductive individuals of *Nabalus* (= *Prenanthes*) *carrii* (canyon rattlesnake-root) were observed (Table 3, Fig. 11). No herbarium material was collected. Seeds of *C. texensis* are being stored frozen at the Wildflower Center. A priority for possible future work would be visiting later in the year to collect seed of *N. carrii*.

Tables

Table 1. Seed collections made on Nature Conservancy properties in 2024. BCHP = Barton Creek Habitat Preserve. LCP = Love Creek Preserve.

Log No.	Species	Locality	No. Seeds (ML)
CONS24-033	*Lithospermum helleri*	BCHP, Warbler Canyon	158
CONS24-034	*Lithospermum helleri*	BCHP, Big Bend Woods	79
CONS24-036	*Lithospermum helleri*	BCHP, Palmetto Canyon	110 (87)
CONS24-037	*Lithospermum helleri*	BCHP, Big Bend Woods	253 (194)
CONS24-045	*Prunus minutiflora*	BCHP, Quonset Hut	158 (40)
CONS24-082	*Clematis texensis*	LCP, Lower Love Creek	68 (2)

Table 2. Voucher herbarium specimens collected on Nature Conservancy properties in 2024. BCHP = Barton Creek Habitat Preserve.

Collection	Species	Property	JWC barcode	Dups.
Flickinger 139	*Lithospermum helleri*	BCHP, Palmetto Canyon	JWC00003420	2
Flickinger 141	*Prunus minutiflora*	BCHP, Quonset Hut	JWC00003412	3

Table 3. Coordinates for plant collections and observations made on Nature Conservancy properties in 2024. All coordinates were taken using a handheld Garmin eTrex 30x GPS unit.

Point No.	Lat.	Long.	Elev. (m)	Time	Species	Description
Barton Creek Habitat Preserve – Scouting						
79	30.295489	-97.91298	286	3/26/2024 15:13	*Prunus minutiflora*	Quonset Hut population
80	30.278635	-97.891843	286	3/26/2024 15:45	*Prunus minutiflora*	Vireo Hill population
81	30.287861	-97.900664	225	4/1/2024 10:38	*Lithospermum helleri*	Warbler Canyon population
82	30.287839	-97.89981	234	4/1/2024 11:00	*Prunus serotina* var. *eximia*	Sterile
83	30.287539	-97.899573	250	4/1/2024 11:04	-	Way into Warbler Canyon
84	30.276485	-97.927724	255	4/1/2024 11:58	*Lithospermum helleri*	S end of Palmetto Canyon population, *Flickinger 139*
Barton Creek Habitat Preserve* – Lithospermum helleri *Collections						
166	30.288724	-97.900998	231	5/14/2024 10:27	*Lithospermum helleri*	First plants encountered in Warbler Canyon
167	30.288164	-97.90055	227	5/14/2024 11:04	*Lithospermum helleri*	Warbler Canyon
168	30.288068	-97.900588	226	5/14/2024 11:09	*Lithospermum helleri*	Warbler Canyon
169	30.287382	-97.901166	229	5/14/2024 12:15	*Lithospermum helleri*	End of seed collection in Warbler Canyon
171	30.29692	-97.900811	245	5/14/2024 15:37	*Lithospermum helleri*	Start of Big Bend Woods population
172	30.297139	-97.900878	241	5/14/2024 15:55	-	Descent into Big Bend Woods canyon

Point No.	Lat.	Long.	Elev. (m)	Time	Species	Description
173	30.297163	-97.900466	237	5/14/2024 16:10	*Lithospermum helleri*	Plants on E side of canyon of Big Bend Woods
174	30.296219	-97.901292	251	5/14/2024 16:24	-	Fire hydrant marking easy descent into Big Bend Woods canyon
-	30.27605	-97.9278	254	5/24/2024 0:00	*Lithospermum helleri*	N end of Palmetto Canyon population
175	30.29633	-97.898876	229	5/24/2024 13:50	*Lithospermum helleri*	E edge of Big Bend Woods population
176	30.297246	-97.899894	237	5/24/2024 14:57	*Lithospermum helleri*	Opposite slope of braided channel in Big Bend Woods
177	30.297073	-97.900965	250	5/24/2024 16:01	*Lithospermum helleri*	Upstream end of collection in Big Bend Woods near grotto
Barton Creek Habitat Preserve* – Prunus minutiflora *Quonset Hut Population Survey and Collection						
190	30.29611	-97.912819	305	6/18/2024 13:32	*Prunus minutiflora*	3 sterile plants at start of Quonset Hut population survey
191	30.295836	-97.912833	302	6/18/2024 13:39	*Prunus minutiflora*	Quonset Hut, 1 shrub (1 fruiting)
192	30.295796	-97.912826	299	6/18/2024 13:44	*Prunus minutiflora*	Quonset Hut, 1 plant (1 fruiting)
193	30.295709	-97.912797	298	6/18/2024 13:46	*Prunus minutiflora*	Quonset Hut, 2 plants (1 fruiting)
-	30.29573	-97.91289	295	-	*Prunus minutiflora*	Quonset Hut, 20 plants (8 fruiting)
194	30.295603	-97.912891	293	6/18/2024 14:10	*Prunus minutiflora*	Quonset Hut, 11 plants (6 fruiting)
195	30.295468	-97.912969	291	6/18/2024 14:21	*Prunus minutiflora*	Quonset Hut, 15 plants (4 fruiting)
196	30.295123	-97.912812	291	6/18/2024 14:32	*Prunus minutiflora*	Quonset Hut, 23 plants (8 fruiting), *Flickinger 141*
197	30.295341	-97.912281	289	6/18/2024 15:01	*Prunus minutiflora*	Quonset Hut, 20 plants (3 fruiting)
198	30.295316	-97.912189	290	6/18/2024 15:10	*Prunus minutiflora*	Quonset Hut, 25 plants (2 fruiting)
199	30.295242	-97.91225	289	6/18/2024 15:11	*Prunus minutiflora*	Quonset Hut 12 plants (3 fruiting),

Point No.	Lat.	Long.	Elev. (m)	Time	Species	Description
200	30.295207	-97.912115	287	6/18/2024 15:18	*Prunus minutiflora*	Quonset Hut, 30 plants (11 fruiting)
201	30.295025	-97.911603	283	6/18/2024 15:22	*Prunus minutiflora*	Quonset Hut, large sterile plant on E slope
202	30.296658	-97.912394	287	6/18/2024 15:39	*Prunus minutiflora*	Quonset Hut, N limit of surveyed area
203	30.295688	-97.911892	287	6/18/2024 15:49	*Prunus minutiflora*	Quonset Hut, sterile plant on NE edge
Barton Creek Habitat Preserve* – Prunus minutiflora *Vireo Hill Population Survey						
208	30.27861	-97.891995	282	7/5/2024 9:08	*Prunus minutiflora*	Vireo Hill, 11 plants
209	30.278728	-97.891916	282	7/5/2024 9:10	*Prunus minutiflora*	Vireo Hill, edge of population
210	30.27849	-97.891863	284	7/5/2024 9:16	*Prunus minutiflora*	Vireo Hill, edge of population
211	30.278546	-97.891792	282	7/5/2024 9:19	*Prunus minutiflora*	Vireo Hill, edge of population
Love Creek Preserve – Scouting and Collection						
252	29.792433	-99.424382	581	9/23/2024 13:32	*Clematis texensis*	Seed Collection
253	29.792448	-99.424165	584	9/23/2024 13:39	*Nabalus carrii*	In bud
255	29.794072	-99.431518	606	9/23/2024 17:45	*Nabalus carrii*	In bud
256	29.793949	-99.43066	601	9/23/2024 17:54	*Styrax platanifolius* subsp. *stellatus*	

Figures



Fig. 1. *Lithospermum helleri* with white nutlets 14 May 2024 in Big Bend Woods, Barton Creek Habitat Preserve. Photo by JF.



Fig. 2. Comparison of good (L) and bad, i.e. inviable, (R) nutlets of Lithospermum *helleri* after cleaning in the seed lab of the Lady Bird Johnson Wildflower Center. Note the cracked appearance of the bad nutlets. Photos by JF.



Fig. 3. *Lithospermum helleri* seed collection 14 May 2024 in Warbler Canyon, Barton Creek Habitat Preserve. Red line is track. Markers labeled with point numbers from Table 3. Barton Creek is at top right.

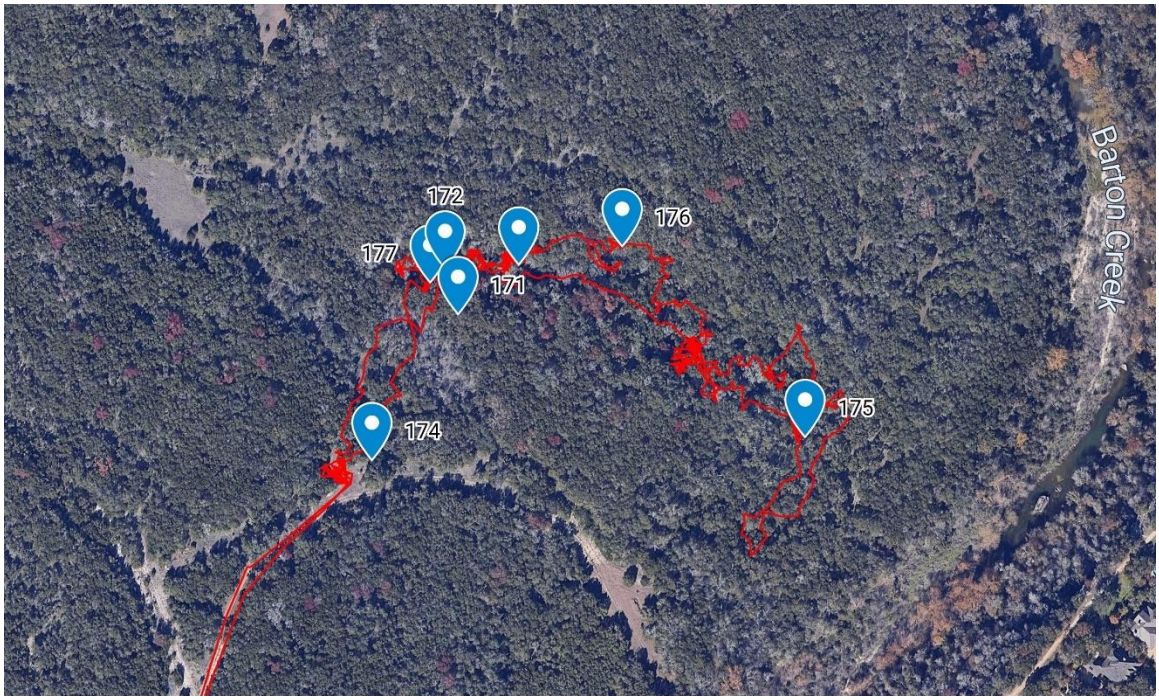


Fig. 4. *Lithospermum helleri* seed collections 14 and 24 May 2024 in Big Bend Woods, Barton Creek Habitat Preserve. Red lines are tracks from both days. Markers labeled with point numbers from Table 3.

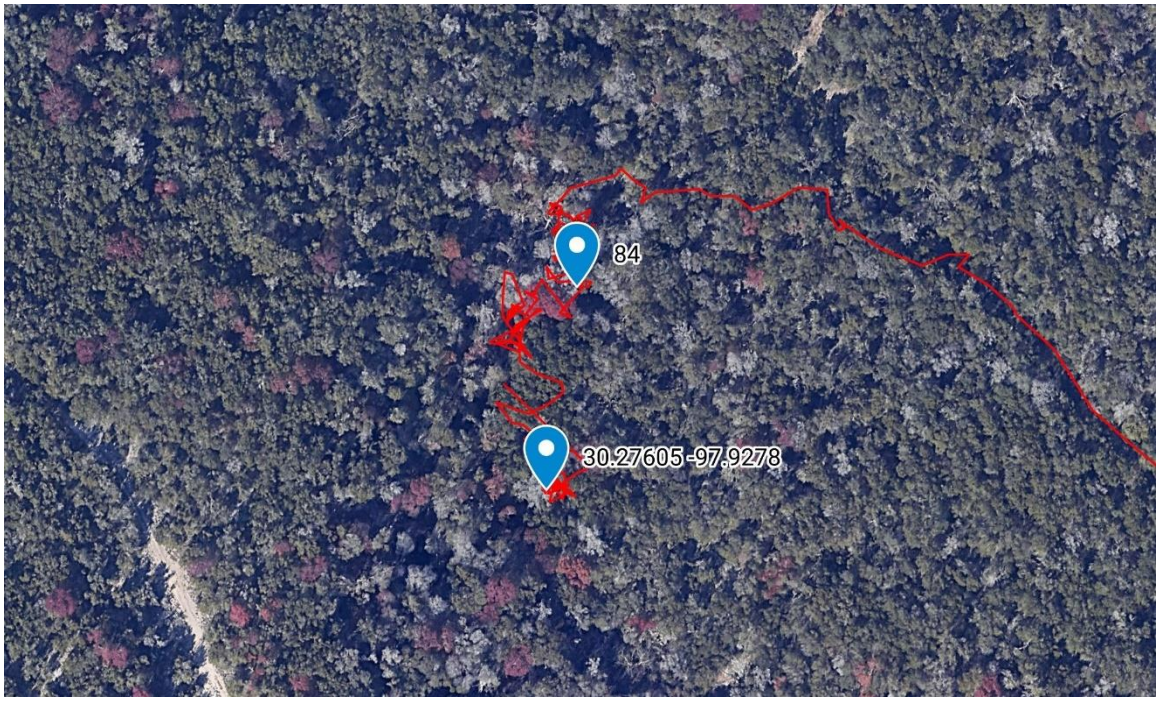


Fig. 5. *Lithospermum helleri* seed collection 24 May 2024 in Palmetto Canyon, Barton Creek Habitat Preserve. Red line is track. Markers labeled with point number or coordinates from Table 3.



Fig. 6. *Prunus minutiflora* with ripe fruits 18 June 2024 on the Quonset Hut burn unit, Barton Creek Habitat Preserve. Photo by JF.

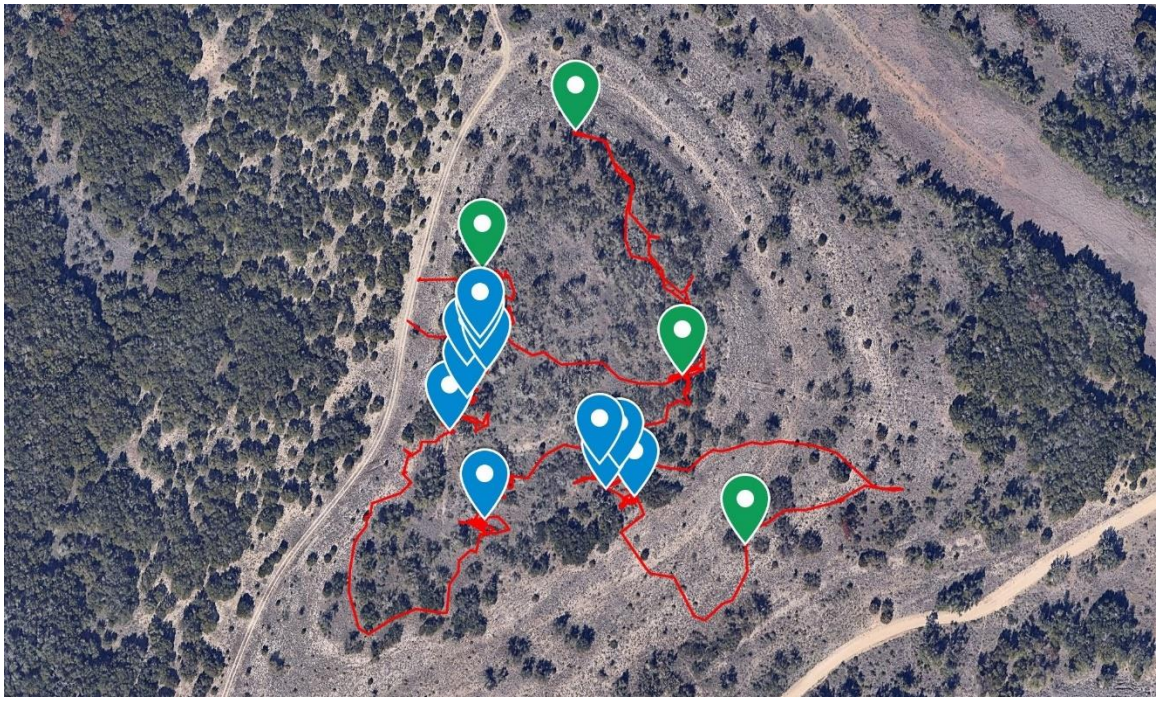


Fig. 7. Quonset hut burn unit *Prunus minutiflora* population 18 June 2024 in Barton Creek Habitat Preserve. Red line is survey track. Markers: blue = fruiting plants; green = other points.

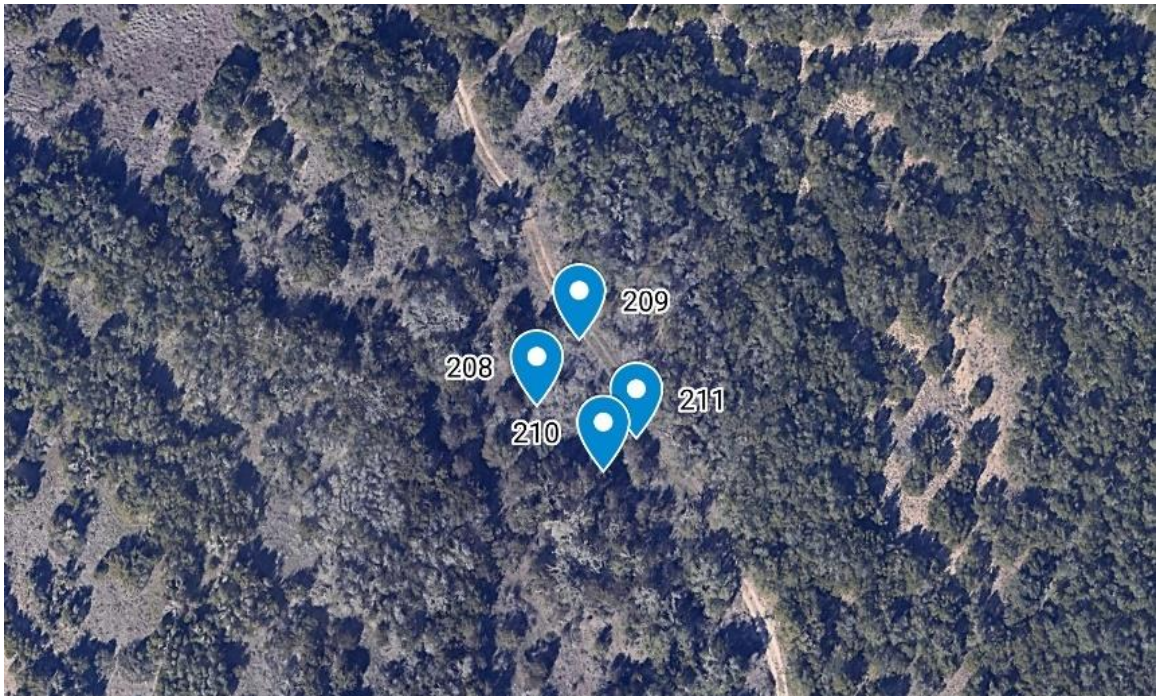


Fig. 8. Vireo Hill *Prunus minutiflora* population 5 July 2024 in Barton Creek Habitat Preserve. Markers labeled with point numbers from Table 3 are at vertices of polygon for area occupied by the population. Vireo Hill is located to the southwest.

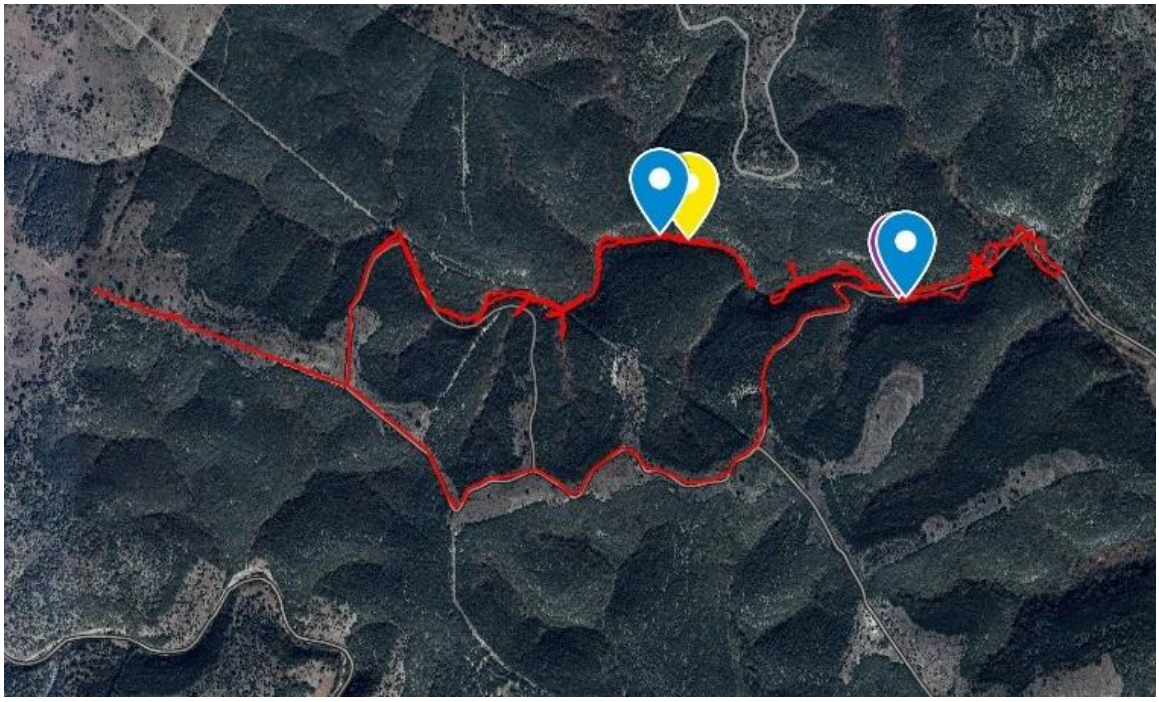


Fig. 9. Field work in Love Creek Preserve 23 September 2024. Red line is track with Love Creek along top of path. Markers: purple (mostly hidden) = *Clematis texensis* seed collection; blue = *Nabalus carrii*; yellow = *Styrax platanifolius* subsp. *stellatus*.



Fig. 10. *Clematis texensis* along Love Creek 23 September 2024 in Love Creek Preserve. L: developing seed heads; R: foliage. Photographic voucher for CONS24-082 seed collection. Photos by JF.



Fig. 11. *Nabalus carrii* along Love Creek 23 September 2024 in Love Creek Preserve. L: habit of plant on boulder; R: flower buds. Photos by JF.

Appendix 1

Field Collection Data Sheet

Plant Information

Genus/species:* Lithospermum helleri (=Onosmodium)

Collection Serial Log #: CONS 24-033 Accession Number: _____

Date of Collection:* 14 May 2024 Quantity Collected:* 158 (134 good)

Form:* ✓ Seeds ___ Plants ___ Cuttings ___ Bulbs ___ Roots ___ Other

Collector Information

Collected by:* Jonathan Flickinger & Phillip Schultz Email or Phone # _____

Agency / Affiliation: LBJWC

Location Information

County Travis Township Austin

Address _____ Landowner TNC

Location Description (exact)*

The Nature Conservancy Barton Creek Habitat Preserve, along intermittent stream draining into Barton Creek, S of Barton Creek West Peninsula (Warbler Canyon)

Lat. 30.298786 N Long. 97.900673 W Derived by: GPS (WGS84) -Pt. #81

Elev 225 meters Elev. derived by: _____

Habitat Information (Complete if the collection was made off site or in the Natural Areas)

Light: ___Open ___1/4Shade ___1/2Shade ✓3/4Shade ___Shade

Slope: ✓Flat to ✓Gentle ___Steep ___Cliff ___% or ___ Degrees

Aspect: ___North ___South ___East ___West

Litter: ___0 ___<1cm ✓1-3cm ___4-8cm ___>8cm

Soil pH _____ Soil Type dark, loamy soil Parent Rock limestone

Habitat Type terrace above stream Plant Community mesic ~~forest~~ woodland

Associated Species Juniperus ashei, ~~Quercus sinuata~~ Fraxinus albicans, Ilex decidua, Aesculus pavia

~~Land Use~~ Garrya ovata, Berberis trifoliata, Parthenocissus quinquefolia, Sabal minor, Arisaema dracontium, Verbesina virginica

Population Information (Complete if the collection was made off site or in the Natural Areas)

Plants ___1-10 ___11-30 ___31-100 ✓101-500 ___>500

Area Covered 200 m. X 65 m. Avg # Plants/m² _____ Max. # Plants/m² _____

Population %: 0 Flowering 80 Fruiting 20 Vegetative

Health of Plants: ___Excellent ✓Good ___Fair ___Poor ___Mixed

Notes Only 1 nutlet (up to a few) collected from most plants. Many not quite ripe (slightly greenish and firmly attached but hard and full size). Plants sampled along drainage mostly between coordinates and ca. 80 m upstream on E side. Population may continue upstream.

* Required field

Field Collection Data Sheet

Plant Information

Genus/species:* Lithospermum helleri (Onosmodium)
Collection Serial Log #: CONS 24-034 Accession Number: _____
Date of Collection:* 14 May 2024 Quantity Collected:* 79 (55 good)
Form:* ✓ Seeds ___ Plants ___ Cuttings ___ Bulbs ___ Roots ___ Other

Collector Information

Collected by:* Jonathan Flickinger & Beth Kirkhart Email or Phone # _____
Agency / Affiliation: LBJWC (JF); volunteer w/ TNC, LBJWC (BK)

Location Information

County Travis Township Austin
Address _____ Landowner TNC
Location Description (exact)*
The Nature Conservancy Barton Creek Habitat Preserve, ~~slope~~ along small stream draining into Barton Creek, ca. 0.7 Km ENE of Quonset Hut (Big Bend Woods)
Lat. 30.29716 N Long. 97.90047 W Derived by: GPS (WGS84) - Pt. #173
Elev 237 meters Elev. derived by: _____

Habitat Information (Complete if the collection was made off site or in the Natural Areas)

Light: ___Open ___1/4Shade ___1/2Shade ✓3/4Shade ___Shade
Slope: ___Flat ✓Gentle ___Steep ___Cliff ___% or ___ Degrees
Aspect: ___North ___South ✓East and ✓West
Litter: ___0 ___<1cm ✓1-3cm ___4-8cm ___>8cm
Soil pH _____ Soil Type loamy Parent Rock limestone
Habitat Type Slopes above stream Plant Community mesic ~~forest~~ woodland
Associated Species Juniperus ashei, Ulmus crassifolia, Ilex vomitoria, Cornus drummondii, Callicarpa americana
Land Use _____

Population Information (Complete if the collection was made off site or in the Natural Areas)

Plants ___1-10 ___11-30 ___31-100 ✓101-500 ___>500
Area Covered 40 m. X 25 m. Avg # Plants/m² _____ Max. # Plants/m² _____
Population %: 0 Flowering 80 Fruiting 20 Vegetative
Health of Plants: ___Excellent ✓Good ___Fair ___Poor ___Mixed

Notes Only 1 nutlet (up to a few) collected from most plants. Ripe fruits harvested. Plants in various stages of maturity. Population considerably larger than area covered ~~above~~ noted above.

* **Required field**

Field Collection Data Sheet

Plant Information

Genus/species:* Lithospermum helleri

Collection Serial Log #: CONS 24-036 Accession Number: _____

Date of Collection:* 5/24/2024 Quantity Collected:* 110 seeds from 87 maternal lines

Form:* ✓ Seeds ___ Plants ___ Cuttings ___ Bulbs ___ Roots ___ Other

Collector Information

Collected by:* J. Flickinger, D. Davis & J. White Email or Phone # _____

Agency / Affiliation: LBJWC

Location Information

County Travis Township _____

Address _____ Landowner TNC

Location Description (exact)*

Barton Creek Habitat Preserve, Sweetwater Tract, Palmetto Canyon, level area above banks of seasonal stream

Lat. 30.27649 N Long. 97.92773 W Derived by: GPS (WGS84) PH. #84

Elev. 255 meters Elev. derived by: "

Habitat Information (Complete if the collection was made off site or in the Natural Areas)

Light: ___Open ___1/4Shade ___1/2Shade ✓3/4Shade ___Shade

Slope: ✓Flat ___Gentle ___Steep ___Cliff ___% or ___Degrees

Aspect: ___North ___South ___East ___West

Litter: ___0 ___<1cm ✓1-3cm ___4-8cm ___>8cm

Soil pH _____ Soil Type loamy Parent Rock limestone

Habitat Type mesic stream valley Plant Community ~~Mixed Hardwood~~ woodland

Associated Species Juniperus ashei, Quercus sinuata, Ulmus crassifolia, Fraxinus albicans, ~~Land Use~~ Malvaviscus arboreus, Carex sp., Verbesina virginica, Hedeoma acinoides, Salvia roemeriana Euphorbia cyathophora

Population Information (Complete if the collection was made off site or in the Natural Areas)

Plants ___1-10 ___11-30 ___31-100 ✓101-500 ___>500

Area Covered 50 m. X 20 m. Avg # Plants/m² _____ Max. # Plants/m² _____

Population %: ϕ Flowering 50 Fruiting 50 Vegetative

Health of Plants: ___Excellent ✓Good ___Fair ___Poor ___Mixed

Notes Nutlets collected by maternal line. Area covered to S of cordinates on E side of stream. Population of ca. 200 plants. Voucher specimens (x2) J.A. Flickinger 139. ~~Maternal lines kept separate~~

*** Required field**

Log Number: CONS24-036
Scientific Name: *Lithospermum helleri*
Provenance: Barton Creek Habitat Preserve - Palmetto Canyon

Notes: 6 seeds from 1 seed/plant packets used for seed herbarium specimen. Voucher *Flickinger 139*.

TOTALS									
Amount	**No. ML**	**No. Seeds**	**Cut Test**	**Other**	**Banking**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**
Target	n/a	n/a	5		102	41	41	10	10
Calculated	71	107	0	6	101	44	42	8	7

SEEDS BY MATERNAL LINE									
Packet	**ML**	**Seed Count**	**Cut Test**	**Other**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**	**Remaining**
ML TOTALS	71	107	0	6	44	42	8	7	0
1 Seed Per Plant		60		6	28	26			0
JF-4	1	2				2			0
JW-5	2	2				2			0
JW-6	3	2			2				0
DD-7	4	2			2				0
DD-8	5	2				2			0
DD-9	6	3			2		1		0
DD-10	7	4				3		1	0
DD-11	8	5				3		2	0
JF-12	9	7			4		3		0
JF-13	10	10			6		4		0
DD-14	11	8				4		4	0

Field Collection Data Sheet

Plant Information

Genus/species:* Lithospermum helleri

Collection Serial Log #: CONS 24-037 Accession Number: _____

Date of Collection:* 5/24/2024 Quantity Collected:* 253 seeds from 194 maternal lines

Form:* ✓ Seeds ___ Plants ___ Cuttings ___ Bulbs ___ Roots ___ Other

Collector Information

Collected by:* J. Flickinger, D. Davis & J. White Email or Phone # _____

Agency / Affiliation: LBJWC

Location Information

County Travis Township _____

Address _____ Landowner TNC

Location Description (exact)*

Barton Creek Habitat Preserve, Big Bend Woods, slopes of braided stream valley

Lat. 30.29716 N Long. 97.90047 W Derived by: GPS (WGS84) Pt. #173

Elev 237 meters Elev. derived by: _____

Habitat Information (Complete if the collection was made off site or in the Natural Areas)

Light: ___Open ___1/4Shade ___1/2Shade ✓3/4Shade ___Shade

Slope: ___Flat ✓Gentle ___Steep ___Cliff ___% or ___ Degrees

Aspect: ✓North & ✓South ___East ___West

Litter: ___0 ___<1cm ✓1-3cm ___4-8cm ___>8cm

Soil pH _____ Soil Type loamy Parent Rock limestone

Habitat Type mesic stream valley Plant Community woodland

Associated Species Juniperus ashei, Quercus sinuata, Ulmus crassifolia, Cornus drummondii, Callicarpa americana, Ilex decidua, Ilex vomitoria, Sabal minor, Smilax bona-nox, Verbesina virginica, Ditaxis simulans

~~Land Use~~

Population Information (Complete if the collection was made off site or in the Natural Areas)

Plants ___1-10 ___11-30 ___31-100 ✓101-500 ✓>500

Area Covered 220 m. X 60 m. Avg # Plants/m² _____ Max. # Plants/m² _____

Population %: _____Flowering _____Fruiting _____Vegetative

Health of Plants: ___Excellent ✓Good ___Fair ___Poor ___Mixed

Notes Nodes collected by maternal line along both sides of stream. Coordinates approximately midway between extremes of population. Plants concentrated upstream. Several hundred plants at this site.

* **Required field**

Log Number: CONS24-037
Scientific Name: *Lithospermum helleri*
Provenance: Barton Creek Habitat Preserve - Big Bend Woods

TOTALS									
Amount	**No. ML**	**No. Seeds**	**Cut Test**	**Other**	**Banking**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**
Target	n/a	n/a	10		243	98	97	24	24
Calculated	23	253	0	0	253	118	112	12	11

SEEDS BY MATERNAL LINE									
Packet	**ML**	**Seed Count**	**Cut Test**	**Other**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**	**Remaining**
ML TOTALS	23	253	0	0	118	112	12	11	0
1 Seed Per Plant		171			86	85			0
JF-4	1	2			2				0
JF-5	2	2			2				0
JF-6	3	2				2			0
JF-7	4	2				2			0
JF-8	5	3			2		1		0
JF-9	6	3			2		1		0
JF-10	7	3			2		1		0
JF-11	8	3			2		1		0
JF-12	9	3			2		1		0
JF-13	10	3				2		1	0
JW-14	11	3				2		1	0
JW-15	12	3				2		1	0
JW-16	13	3				2		1	0
JF-17	14	4			3		1		0
JF-18	15	4			3		1		0
JW-19	16	4			3		1		0
JW-20	17	4				3		1	0
DD-21	18	4				3		1	0
DD-22	19	4				3		1	0
JW-23	20	5			3		2		0
JW-24	21	5				3		2	0
JW-25	22	5				3		2	0
DD-26	23	8			6		2		0

Field Collection Data Sheet

Plant Information

Genus/species:* Prunus minutiflora

~~Collection Serial Log~~ #: CONS 24-045 Accession Number: _____

Date of Collection:* 18 June 2024 Quantity Collected:* 158 seeds, 40 maternal lines

Form:* ✓ Seeds ___ Plants ___ Cuttings ___ Bulbs ___ Roots ___ Other

Collector Information

Collected by:* J. Flickinger & A. Jones Email or Phone # _____

Agency / Affiliation: LBJWC

Location Information

County Travis Township Austin

Address _____ Landowner TNC

Location Description (exact)*

Barton Creek Habitat Preserve, Quonset Hut Burn Unit, on flat-topped hill E of two-track road along NW side

Lat. 30.29560 N Long. 97.91289 W Derived by: GPS (WGS84)

Elev. 293 meters Elev. derived by: _____

Habitat Information (Complete if the collection was made off site or in the Natural Areas)

Light: ✓Open ✓1/4Shade ✓1/2Shade ___3/4Shade ___Shade

Slope: ✓Flat ✓Gentle ___Steep ___ Cliff ___% or ___ Degrees

Aspect: ___North ___South ✓East ___West

Litter: ___0 ___<1cm ✓1-3cm ✓4-8cm ___>8cm 2-5 cm

Soil pH _____ Soil Type rocky, clay loam Parent Rock limestone

Habitat Type hilltop and W slope Plant Community open oak-juniper woodland with

Associated Species Juniperus ashei, Quercus fusiformis, (cod. below) abundant grasses

Land Use recently burned

Population Information (Complete if the collection was made off site or in the Natural Areas)

Plants ___1-10 ___11-30 ___31-100 ✓101-500 ___>500

Area Covered 100 m. X 180 m. Avg # Plants/m² _____ Max. # Plants/m² _____

Population %: Ø Flowering 20 Fruiting 80 Vegetative

Health of Plants: ___Excellent ✓Good ___Fair ___Poor ___Mixed

Notes Yucca rupicola, Diospyros texana, Berberis trifoliata, Wedelia acapulcensis var. hispida, Wamarkia scutellarioides, Hedeoma acinoides, Sideroxylon lanuginosum, Dermatophyllum secundiflorum, Eysenhardtia texana, Gaillardia pulchella. Fruits ripe on most plants, few per plant but relatively large. Approximately 250 plants found in 1 hectare area. Plants distributed ~ 55m to N and S and ~ 100 m to E of coordinates. Voucher J.A. Flickinger #141.

* **Required field**

Log Number: CONS24-045
Scientific Name: *Prunus minutiflora*
Provenance: Barton Creek Habitat Preserve (BCHP)

TOTALS									
Amount	**No. ML**	**No. Seeds**	**Cut Test**	**Other**	**Banking**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**
Target	n/a	n/a	5		153	62	61	15	15
Calculated	40	158	0	0	0	0	0	0	0

SEEDS BY MATERNAL LINE									
Packet	**ML**	**Seed Count**	**Cut Test**	**Other**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**	**Remaining**
ML TOTALS	40	158	0	0	0	0	0	0	158
1 Seed Per Plant									0
		1							1
		1							1
		1							1
		1							1
		1							1
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		2							2
		3							3
		3							3
		3							3
		3							3
		3							3
		4							4

SEEDS BY MATERNAL LINE									
Packet	ML	Seed Count	Cut Test	Other	1° Storage	2° Storage	1° Curation	2° Curation	Remaining
		4							4
		5							5
		5							5
		5							5
		5							5
		5							5
		5							5
		6							6
		6							6
		6							6
		7							7
		7							7
		8							8
		10							10
		12							12
		12							12

Field Collection Data Sheet

Plant Information

Genus: **Clematis** Species: * **texensis**

Collection Serial Log #: **CONS24-082** Accession Number:

Date of Collection: * **23 September 2024** Quantity Collected: * **68 seeds, 2 ML**

Form:* ☒ Seeds ☐ Plants ☐ Cuttings ☐ Bulbs ☐ Roots ☐ Other

Collector Information

Collected by: * **J. Flickinger & P. Schulze** Email or Phone #

Agency / Affiliation: **LBJWC**

Location Information ☐ Check here if precise locality and landowner to be kept confidential.

County **Bandera** Township

Address **2725 Elam Creek Road, Medina, TX 78055** Landowner **Nature Conservancy of Texas**

Location Description (exact)*

Love Creek Preserve, growing over seep on south side of Love Creek

Lat. **29.79243** N Long. **-99.42439** W Derived by: **GPS (WGS84)**

Elev**. 581** meters Elev. derived by: **GPS (WGS84)**

Habitat Information (Complete if the collection was made off-site or in the Natural Areas)

Light: ☐ Open ☐ 1/4Shade ☐ ½ Shade ☒ 3/4Shade ☐ Shade

Slope: ☐ Flat ☐ Gentle ☒ Steep ☐ Cliff % or Degrees

Aspect: ☒ North ☐ South ☐ East ☐ West

Litter: ☐ 0 ☐ <1cm ☐1-3cm ☐4-8cm ☐>8cm

Soil pH Soil Type Parent Rock **limestone**

Habitat Type **mesic canyon** Plant Community **forest**

Associated Species **Adiantum capillus-veneris, Chaetopappa effusa, Parthenocissus quinquefolia**

Land Use

Population Information (Complete if the collection was made off-site or in the Natural Areas)

Plants ☐1-10 ☐11-30 ☐31-100 ☐101-500 ☐>500

Area Covered m X m OR m^2 total area Avg # Plants/m^2 Max. # Plants/m^2

Population %: Flowering. Fruiting Vegetative

Health of Plants: ☒Excellent ☐Good ☐Fair ☐Poor ☐Mixed

Notes Species scattered along much of creek canyon within preserve (population size not estimated) but most individuals small and sterile. Vines were growing over mat formed by Adiantum fronds. Multiple seed heads on plants ranging from green to brown.

*** Required field**

Lady Bird Johnson Wildflowercenter The University of Texas at Austin

Log Number: CONS24-082
Scientific Name: Clematis texensis
Provenance: Love Creek Preserve

Notes: 5/5 seeds filled in cut test performed 26 September 2024 by JAF.

TOTALS									
Amount	**No. ML**	**No. Seeds**	**Cut Test**	**Other**	**Banking**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**
Target	n/a	n/a	5		63	26	25	6	6
Calculated	2	68	5	0	63	63	0	0	0

SEEDS BY MATERNAL LINE									
Packet	**ML**	**Seed Count**	**Cut Test**	**Other**	**1° Storage**	**2° Storage**	**1° Curation**	**2° Curation**	**Remaining**
ML TOTALS	2	68	5	0	63	0	0	0	0
1 Seed Per Plant									0
		30	2		28				0
		38	3		35				0