JRN-LTER VII: Annual Report (Year 4)

Award Number: 2025166

Project Title: LTER: Long –Term Research at the Jornada Basin (LTER VII)

Project/Grant Period: 12/01/2020 - 11/30/2025

Reporting Period: 12/01/2023 - 11/30/2024

ACCOMPLISHMENTS

What are the major goals of the project?

We will explore how landscape-level spatial heterogeneity evolves in response to the effects of disturbance triggers, connectivity-mediated feedbacks, and their interactions with the soil-geomorphic template. We will integrate long-term observations and recent theoretical developments to improve a conceptual and predictive framework for drylands. We propose to expand our landscape linkages framework to fill this critical need, and to contribute to emerging ecological theory on: (a) alternative states and transient dynamics, (b) ecosystem sensitivity under global change, and (c) cross-scale interactions.

- Obj. 1. quantify effects of interactions among triggers, connectivity-mediated feedbacks, and soil-geomorphic heterogeneity on the rate and nature of state transitions.
- Obj. 2. explain and predict multi-scale spatial heterogeneity in alternative states.
- Obj. 3. apply new analytical concepts and tools to broader extents (regional to global) and examine consequences for ecosystem services.

What was accomplished under these goals and objectives?

Major Activities

Obj. 1: quantify effects of interactions among triggers, connectivity mediated feedbacks and soil-geomorphic heterogeneity on rate and nature of state transitions.

A. Grassland to shrubland transitions

A1: ThreshEx: The ThreshEx2 experiment, testing the interactions of defoliation, drought intensity, press duration, and initial environmental conditions on *B. eriopoda* foliar cover and ANPP, was fully established and 2 years of data have been collected to this point.

A2: NEAT2: The NEAT2 experiment will examine how biocrust impacts aeolian transport. Initial biocrust inoculation was implemented during a prolonged drought in Summer 2022, and ongoing measurements to evaluate impacts of reduced wind and biocrust on aeolian transport and grass establishment and survival.

A3: The Ecotone Study: Long-term sampling of rodents, lagomorphs, and mammalian predators continues to examine trophic cascades during grass-shrub state transitions. We expanded to include herbivory feedbacks on established grasses and seedlings from native, exotic, and domesticated mammals.

B. Shrubland to grassland transitions

B1: The Threshold Responses in Grass Growth, Establishment and Recovery Experiment: The TRIGGER experiment varies rainfall and connectivity, with PPT levels representing 100-yr and 10-yr wet/dry sequences (+/-80%, +/-50%) and ambient conditions and connectivity modifiers (conmods) reducing aeolian connectivity and sediment transport. Replicate plots include three levels (low, medium, high) of initial grass cover, with/without presence of rainout shelters and connmods. We monitor ANPP, cover, plant and litter density, and recruitment by species.

B2: The Grass Recovery on Wind Eroded Soils Experiment: GROWES is examining alternative succession pathways in the presence or absence of shrubs following major disturbance. Measurements of vegetation structure, soil moisture and dust transport continue.

B3: Cross-Scale Interaction Study: The >10 year CSIS study examines how grass recovery is impacted by wind and competition with shrubs, with treatments manipulating aeolian connectivity using 'conmods' and competition using herbicide.

B4: Long-Term NPP and Grass Recovery Trends: We continue monitoring NPP at 15 locations across JRN.

C. Shrubland to shrubland transitions

C1: Long-Term Shrub Monitoring: Shrub monitoring plots (in grassland, mesquite dunes, creosotebush and tarbush communities) will be augmented in JRN-8, with UAV and field-based inventory of shrubs for establishment, growth and mortality. These shrub demographic data complement shrub demographic experiments and link JRN shrub processes to long-term forest plots across the LTER network and globally.

C2: Shrub Demographic Experiment: Two studies (Wojciekeiwicz et al., 2024; Roberts and Hanan, 2024) explore how competition among the dominant shrubs of the Jornada impact maximum density and cover of shrubs and rates of shrub encroachment, providing new insight into how different measurements of plant size (indexed as canopy area or shrub volume) reflect resource demands and thus maximum shrub cover or shrub volumes across landforms and dominant species.

Plant-Soil Feedbacks: We continue studies of rhizosphere microbiomes for abundant Jornada shrub species (tarbush, mesquite, creosote, mariola) and grass species (black grama, lovegrass).

C3: Bajada Watershed Studies: The water balance instrumentation (precipitation gauges, cosmic-ray neutron sensing of soil water content, eddy covariance measurement of evapotranspiration, and outlet runoff from a flume) were used to derive a new formulation for percolation losses as a function of soil moisture during large storm events.

Carbon and Water Flux Studies: JRN and partners now operate 10 flux towers, providing an unprecedented opportunity to monitor carbon, water, and energy exchange at Basin scale. In August 2024, we hosted a 2-day regional AmeriFlux workshop and QA/QC site visit, with 20 data collectors and users across the US/MX Chihuahuan and Sonoran Desert ecoregions to build community, share best practices, and challenges (https://ameriflux.lbl.gov/2024-regional-workshop-las-cruces-nm/). A comparison of two eddy covariance towers (US-Jo2 and P-SMAL) was carried out in the context of a water balance study.

D. Transition to novel ecosystems

D1: How do Rainfall Variability, Grazing, and Competition with Native Grasses Interact to Trigger Non-Native Grass Invasion?

Plant-Soil Feedbacks and Lovegrass Invasion: We conducted a plant soil feedbacks and competition study with native black grama grass and invasive Lehmann lovegrass, incorporating water additions and fertilizer as experimental treatments.

E. Transitions under climate change

E1: Rainfall Manipulation Experiment: Our long-term experiments (> 17 y) in mixed black grama-mesquite manipulate (1) PPT amount (+/-80% & ambient), and (2) PPT inter-annual variability, including above ground production, root in-growth, and minirhizotrons. This year we added a new experiment to test the interactive effects of rainout/rainon shelters with misters to modify atmospheric vapor pressure deficit.

Obj. 2: explain and predict multi-scale spatial heterogeneity in alternative states

Jornada Long-Term Quadrats: New measurements at 127 quadrats, some of which were established more than 100 years ago, were completed in 2021. Next measurements are scheduled in 2026.

Ecohydrological Modeling: We conducted a water balance comparison for a runoff-producing upland site, and a runoff-receiving playa, using the available sensor networks. We characterized the inundation dynamics of 18 instrumented playas at JRN over a six-year period, linking playa dynamics to the ecohydrological properties of the upstream watersheds, including area, soil types, shrub cover and slope.

Biocrust distributions: We continue exploring biocrust abundance and diversity shaped by ecological conditions across 63 plots located on sandy, loamy, and clayey soils. Data on plant community composition, structure and soil aggregate stability were related to biocrust cover and composition. We are using metabarcode sequencing to survey the associated soil microbiomes (fungi, bacteria). A lab phenology experiment links biocrust carbon exchange to microbial activity.

Obj. 3 apply new analytical concepts and tools to broader extents (regional to global) and examine consequences for ecosystem services

Expanding Arid Land Ecological Theory: We validated our microbial extension to the Pulse Reserve Paradigm of arid lands (Kut and Garcia-Pichel, 2024).

Restore New Mexico: Publications are in preparation on vegetation responses to shrub removal efforts and how vertebrates respond to landscape mosaics created by shrub removal at regional scales.

Vegetation dynamics and state-change in the southwestern USA: Long-term changes in vegetation structure can be inferred using satellite data (2001-2022), enabling assessment of changes in woody vegetation separate from changes in herbaceous vegetation cover (Anchang et al., in prep).

Competition for resources in global woody plant communities: A global scale analysis of water uptake by woody plants in competition with neighbors provides a direct estimate of density-dependent competition as a critical process controlling maximum woody plant density in water limited ecosystems (Roberts and Hanan, in review).

Specific Objectives

See major goals (above)

Significant Results

Obj. 1: quantify effects of interactions among triggers, connectivity-mediated feedbacks, and soil-geomorphic heterogeneity on the rate and nature of state transitions.

A. Grassland to shrubland transitions

A1: ThreshEx2: 2024 had remarkably dry conditions. Rainfall scarcity has reduced *B. eriopoda* in all plots, including the controls, but we can now detect effects from both the rainfall and the clipping treatments. The drought will likely drive further state transitions favoring woody plants if it continues.

A2: The NEAT Experiment: Results from wind and biocrust manipulations are being collected.

A3: The Ecotone Study: Trophic interactions among canid predators and their lagomorph prey are driven by bottom-up pulses mediated by ecological state. Herbivory pressure is highest on shrub-dominated states during wet periods. A long-term (21 years) herbivore exclosure experiment revealed perennial grass cover and recovery from disturbance increased with removal of native small mammals, especially in shrub-dominated states. Likewise, seedling mortality from small mammal herbivores also increased with shrub encroachment (Figure 1).

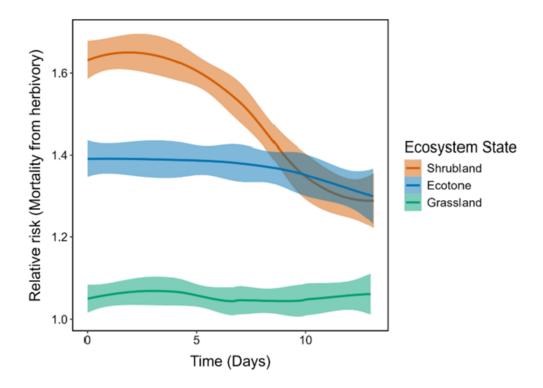


Figure 1. Risk of mortality from small mammal herbivory for perennial grass seedlings across ecosystem states on the Ecotone Study. Model predictions are from a mixed effects Cox proportional hazard model. Lines indicate the predicted relative risk, and shaded regions indicate the 95% confidence intervals.

B. Shrubland to grassland transitions

B1: The Threshold Responses in Grass Growth, Establishment and Recovery Experiment (TRIGGER): Four years of field data collection have been completed, with results indicating significant impacts of initial cover, precipitation treatment, and connectivity on live perennial grass cover and litter accumulation. UAV-based orthophotos are being analyzed to understand detailed patterns of vegetation and litter accumulation in the treatments.

B2: The Grass Recovery on Wind Eroded Soils Experiment: Observations continue at the GROWES site.

B3: Cross-Scale Interaction Study (CSIS): Results indicate that connectivity and competition treatments have modest impacts on grass recovery when applied alone, but much larger (non-additive) synergistic effects when both connectivity and competition are reduced, providing the first compelling evidence for a pathway to grass recovery in southwestern drylands (Peters et al., in review; Figure 2). Five datasets from the project have been published in the EDI data repository.



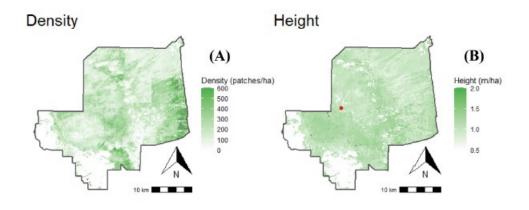
Figure 2. Photos showing cross-scale interactions study (CSIS) treatment effects on cover of perennial grass and other herbaceous plants growing between mesquite shrubs: (a) control plots with little or no vegetation, (b) plant-scale treatment plots (mesquite competition reduced using herbicide) with in-place mortality of woody plants and limited forb establishment, (c) patch-scale treatment (wind and sediment transport reduced using ConMods) show limited grass and forb establishment near ConMods, (d) combined effects of mesquite control and ConMods with much more significant grass establishment.

B4: Long-Term NPP and Grass Recovery Trends: Peters et al. (2023) showed how temporal lags interact with landscape context and soil types to control woody and herbaceous production.

C. Shrubland to shrubland transitions

C1: Long-Term Shrub Monitoring: Baseline data have been collected at four sites, with plans to expand to additional sites during JRN-8.

C2: Shrub Demographic Experiment (ShrubDemo): Wojcikiewicz et al (2024) used a simulation modeling approach to infer root competition intensity across the Jornada Basin, establishing that shrub population growth rates tend to zero (or negative) when local population density increases canopy cover above ~25%. Roberts et al (2024) showed how competitive interactions, and limits to the shrub encroachment process, depend more closely on 3-dimensional shrub community structure (i.e., shrub volume), than on the 2-dimensional metric of shrub cover (Figure 3).



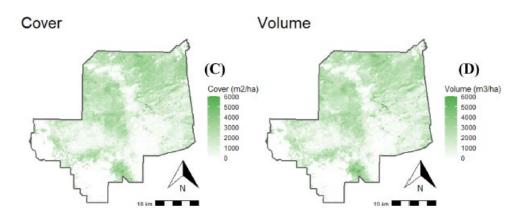


Figure 3. Shrub population metrics for the Jornada Basin. Shrub density (A), shrub height (B), shrub cover (C), and shrub volume (D) estimates, all at 1 ha spatial resolution. Maps were created by fusing lidar height estimates with canopy cover estimates obtained from multispectral airborne data. Areas of poor lidar performance due to topographic roughness are masked. The borders of the JRN-LTER extend further east than shown but were not included due to the mountainous terrain.

C3: Bajada Watershed and Playa Studies: We used rain gauge-corrected precipitation from weather radar and water level measurements in 18 playas to identify precipitation thresholds leading to inundation (Figure 4, Kimsal et al. 2024, in review). Geospatial data on terrain, soil, and vegetation were used to determine the controls on inundation. Only 5.3% of all precipitation events led to inundation, with 69.8% of all inundations occurring during the monsoon. At the annual scale, playa inundation occurred when mean precipitation thresholds of 18.3 ± 7.5 mm (event total) and 12.0 ± 4.5 mm/hr (60-min intensity) were exceeded. Across all playas, inundation occurrence and volume were related most strongly to precipitation metrics and catchment area, with secondary controls of soil and vegetation properties. The explanatory power of regressions describing the inundation response across the playas were significantly improved when considering their geological origin.

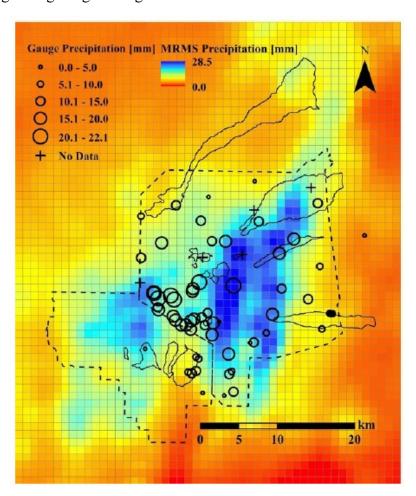


Figure 4. Rainfall estimates across a network of gauges in the JER and CDRRC relative to bias-corrected weather radar data (MRMS; a 1-km grid product). Figure also shows the upstream catchments of 18 instrumented playas. Rain gauge sites with No Data labeled with +. The example is a comparison of hourly precipitation on October 4, 2019.

D. Transition to novel ecosystems

D1: How do Rainfall Variability, Grazing, and Competition with Native Grasses Interact to Trigger Non-Native Grass Invasion?

Lehmann Lovegrass soil inoculum had a positive impact on black grama when fertilizer was added, but plant-soil feedbacks (PSF) were minimal otherwise. Lehmann lovegrass was generally the superior competitor under all conditions (Meyers et al., in revision).

E. Transitions under climate change

E1: Rainfall Manipulation Experiment: A new study quantified the impact of extreme short-term drought on grassland and shrubland ecosystems across six continents providing baseline understanding of the potential losses of plant productivity in these vital ecosystems.

The loss of aboveground plant growth – a key measure of ecosystem function – was 60% greater when short-term drought was extreme compared to the less severe droughts that have been more commonly experienced historically.

Key Outcomes or Other Achievements

Obj. 2: explain and predict multi-scale spatial heterogeneity in alternative states.

Microbial diversity, biocrust microbiome and state transitions: In the recently published paper by McCord et al. (2024) we showed how biocrust abundance and composition relate to state transition indicators such as plant canopy gap. In general, dark cyanobacteria, moss and lichen crusts are associated with smaller vascular plant gap sizes, conditions that are found in reference or slightly altered ecological states. This is particularly evident in sandy ecological sites at the JER.

Obj. 3: apply new analytical concepts and tools to broader extents (regional to global) and examine consequences for ecosystem services.

Shrub encroachment in the southwestern USA: The Restore New Mexico project attempts to remove encroaching shrubs throughout southwestern New Mexico within 7 x 7 km landscape mosaic blocks representing treatment gradients. We are testing the hypothesis that bird, lizard and small mammal species richness, and abundances are positively related to habitat heterogeneity and thus maximized at intermediate treatment levels. These results can inform landscape management—more shrub removal is not necessarily better for biodiversity and ecosystem services. Data are undergoing final analyses.

Competitive interactions limit shrub encroachment in global drylands: We analyzed data from the Sapfluxnet global sap-flow data analysis (Roberts et al., in review) providing empirical evidence that shrub competition reduces the ability of woody plants to access soil water

resources. The relationships are stronger for dryland regions, providing direct evidence that reduced growth and increased mortality in Jornada shrublands at higher densities is likely associated with below-ground competition for water.

What opportunities for training and professional development has the project provided?

K-12 Education and Outreach Accomplishments: JRN collaborates with the nonprofit Asombro Institute for Science Education to lead our K-12 education program, increase student ecological literacy, decrease stereotypes about scientists and science, and encourage participation in STEM careers. This is especially important in southern New Mexico, where the majority of our participants are from groups underrepresented in science: 75% of our K-12 participants are economically disadvantaged, and 77% are Hispanic.

During more than 2 decades of K-12 engagement our team has created a suite of programs, detailed below. This year, we also piloted an "Ecosystem Pen Pals" project with four other LTER sites. Between December 2023 and October 2024, these programs collectively reached 20,235 K-12 students, 853 teachers, and 824 other adults. Accomplishments for each component are listed below.

- **1. Classroom and Schoolyard Science Lessons:** 17,846 K-12th grade students participated in 853 one-hour classroom and schoolyard activities delivered by Asombro educators. Grade-specific K-12 lessons cover a variety of topics related to JRN research. All lessons are hands-on, aligned with Next Generation Science Standards, and designed using our 15-step development process, which includes screening for diversity, equity, and inclusion criteria.
- **2. Field Trips:** This year we provided 18 field trips for 1,262 students, including hikes, hands-on activities, data collection, and interpretation around a central theme: desert plant and animal habitats (kindergarten and 1st grade), wind and water erosion (2nd and 3rd grade), using science to protect natural resources (4th and 5th grade), and desertification and restoration (6th-8th grade).
- **3. Schoolyard Field Trips:** We developed two-hour schoolyard field trips to give students the benefits of outdoor learning in their schoolyard, including 2nd/3rd and 4th/5th grade field trips, and delivered 7 of them for 577 students in 30 classes. In each schoolyard field trip, students investigate a central question through hands-on activity stations led by Asombro staff and classroom teachers, incorporating science, reading, writing, and math.
- **4. NEW: Ecosystem Pen Pals:** We piloted a postcard exchange with 5th grade students living near five LTERs in New Mexico (JRN), Alaska (NGA), Colorado (NWT), Massachusetts (HFR), and Virginia (VCR). Each class read One Day in the Desert (2017), the JRN's contribution to the

LTER children's book series, in which the main character learns about her desert ecosystem and corresponds through postcards with kids from other LTER sites. In our Ecosystem Pen Pals project, 5th graders in five states replicated the main character's experience. Teachers and students loved the project. For example, one teacher wrote on an evaluation, "Everything worked out well. Love the pen pals and exposure to different ecosystems via the activity." We will continue the project in the 2024/25 school year, including students from LUQ.

- **5. Desert Data Jam:** The 11-year-old Desert Data Jam engages students in interpreting and communicating real data trends in creative ways (e.g., games, videos, physical models). In spring 2024, Asombro educators worked with 428 middle school students through four classroom lessons. The top 61 projects were entered into the final competition and judged at least four times. The three top prize winners and ten honorable mention projects can be viewed on the Desert Data Jam website (https://asombro.org/desert-data-jam/).
- **6. Teacher Workshops:** We hosted nine in-person and virtual workshops for 212 teachers. For example, one workshop in March was for educators and others who work with youth at the Santa Ana Pueblo in central New Mexico. Another workshop in October was for upper elementary teachers in southern New Mexico we focused on the role of desert playas.
- **7. Public Programs:** We hosted or participated in other public programs throughout southern New Mexico and far west Texas, reaching 550 K-12 students and 690 adults through 19 public programs at nature parks, STEM nights, city parks, and public libraries. Seven Asombro events featured hands-on activity stations and expert talks to highlight research on animals and plants of the Chihuahuan Desert.
- **8.** Undergraduate Internship in Science Education: Each semester, the Asombro Institute hosts an undergraduate intern from New Mexico State University. The paid internship exposes undergraduates to science education and outreach as they (a) accompany staff into local classrooms to assist with lessons, (b) assist with field trips, and (c) work on office projects to help prepare for upcoming lessons, workshops, and public events.
- **9. Graduate Student Integration in K-12 Education:** Graduate students receiving JRN fellowships participate in 2-10 hours of Asombro K-12 education activities. They choose from a menu of options that can be done in-person or from afar (e.g., assisting with education programs, reviewing new science education lessons). Between December 2023 and October 2024, six graduate students contributed more than 40 hours to the K-12 program.

Education and Outreach in Higher Education and Other Contexts: In 2024, JRN continued outreach and education activities with undergraduate and graduate students, our own researchers and staff, and neighboring institutions and communities. These activities are focused on developing research and technical skills, building relationships with regional scientists, managers, and the public. Selected accomplishments are highlighted below.

- **1. Data Workshops:** The JRN IM team organized a Data Carpentry in 2024, focused on using NEON geospatial data with the R programming language, including Desert Ecology Short Course attendees, REU students, graduate students, and an instructor from the MCM LTER. Lead IM Maurer also organized and instructed a new "Ecological Data Synthesis: A primer of essential methods" short course, and co-instructed a workshop on using NEON biodiversity data during the ESA 2024 Summer Meeting with contributors from other LTER sites, NEON, and the Environmental Data Initiative.
- 2. LTER-VII Graduate Fellow Report: The JRN-LTER Graduate Student Research Fellowships Program provided direct support for 5 graduate students in 2024. Student training, mentoring, and research opportunities extended to an additional >15 graduate students at NMSU and partner institutions (UTEP, ASU, UCLA, UI). We continued our graduate networking and professional development forum (the online "Desert Discourse" Series) to enhance opportunities for research and career advancement for graduate students, PIs, postdocs, and staff for networking, team building and professional development, and as a mechanism for retention and the promotion of a diverse next generation of ecological and STEM researchers.
- **3. LTER-VII REU Report:** This year, student training and mentoring opportunities in dryland ecology included funding for 5 REU students. We continued REU enrichment programs including field trips, socials, data-management training, graduate-student mentoring, and workshops to enrich the student experience.
- **4. Jornada Desert Ecology Short-Course:** We hosted our Short-Course in-person this year at our field site. We hosted over 50 participants for three days of workshops, presentations, and field trips, with JRN researchers and students and collaborators from neighboring institutions and LTER sites.
- **5. Jornada Basin LTER Safety Training:** JRN's field safety protocols and training (https://lter.jornada.nmsu.edu/for-researchers), include our code of conduct, sections on physical safety (specific to the Chihuahuan desert and our facilities), harassment and Title-IX policies, mental well-being, other resources and reporting mechanisms. Field safety resources are available on our website, and are associated with increased training, and stricter requirements for dispersing safety resources to our researchers.

Have the results been disseminated to communities of interest?

JRN-LTER results have been communicated through scientific meetings, and publications in high impact journals (see Products Report). In this reporting period there were 21 published journal articles, not including dissertations or theses. This year there were 26 JRN conference presentations, 6 of which were student-led.

Jornada LTER continued engagement with NRCS and BLM and international partners (Mongolia, Argentina) on development and use of state and transition models and their integration with monitoring data. LTER scientists worked with NRCS on revising protocols for state and transition model development, based on recent research stemming from the LTER site. Meetings with BLM focused on implementation of monitoring under the new Land Health rule using state and transition models and new tools based on LTER research, including the Rangeland Analysis Platform (https://rangelands.app/). Two visitors from Argentina worked with LTER scientists to develop ecological land classifications and state and transition models, resulting in published and draft manuscripts. An LTER-affiliated technician went to Mongolia in February-October 2024 to integrate soil carbon sampling into state and transition models via a field and laboratory sampling campaign. Two papers were published, one in *Frontiers in Ecology and Environment* (2024) and one in *Rangelands* (2023), that described how tools and concepts developed at the LTER site can be applied to land management. The 2024 Jornada Symposium, entitled "Perspective on Rangeland Resilience" took place on October 8, 2024, with 110 stakeholder and student participants in person and another 30 online.

Pietrasiak and lab offered a one day biocrust expo during the The Las Vegas Science & Technology Festival's GIANT EXPO. ca 8,000 attendees.

What do you plan to do during the next reporting period to accomplish the goals?

Obj. 1: quantify effects of interactions among triggers, connectivity-mediated feedbacks, and soil-geomorphic heterogeneity on the rate and nature of state transitions.

A. Grassland to shrubland transitions

We will continue long-term monitoring of vegetation structure changes across the Jornada Basin using combinations of NPP field plots, distributed quadrats, airborne, and satellite measurements. We will advance the NEAT experiment to examine interactions between biocrust, rainfall, and erosion-based feedbacks in the shrub encroachment process. The Ecotone Study will continue long-term monitoring of mammalian consumers and predators, precipitation, plant cover, and net primary production, focused on spatiotemporal niches of predators and consumers related to shrub encroachment, and adding a component on bat-insect trophic interactions. We will continue the ThreshEx 2 experiment for at least 10 years to accumulate empirical data and understanding of how grazing interactions with PPT may produce long-term effects on *B. eriopoda* production, including amplifying feedbacks between patch size and productivity that inhibit *B. eriopoda* recovery after grazing if plant cover is reduced to small areas. In addition, grass ANPP is known to exhibit lag responses to PPT legacies, with previous-year ANPP explaining more current-year productivity than previous-year PPT. Legacy impacts of PPT are mediated in part by plant density, which constrains growth following drought and can boost growth following wet years. We are measuring *B. eriopoda* recovery following intensive grazing

in 1996-2000. Following previous methods, *B. eriopoda* foliar cover will be analyzed using repeated-measures linear-mixed effect models. We can use grass cover in 1996 as a covariate to adjust for pre-manipulation differences among paddocks.

B. Shrubland to grassland transitions

We are continuing long-term experiments to examine rainfall and reduced aeolian connectivity as triggers of grass recovery, evaluate the effects of shrub presence or absence on grass recovery, and the interactive effects of shrub competition, aeolian redistribution of sediments and other resources, and initial cover of grasses or shrubs on grass recovery. We will continue to monitor ANPP on 15 locations for 5 ecosystem types at 3 sites each. These seasonal data have been collected since 1989 and remain a critical part of our long-term data. Baseline data on biocrust cover, activity, and gas exchange will be used to model biocrust carbon fluxes at the 15 ANPP sites. Monitoring changes to biocrust cover is planned using regular UAV based multispectral imaging.

C. Shrubland to shrubland transitions

Four additional long-term shrub monitoring sites (stem-maps) will be established to assess directional changes in density and species to complement earlier analysis of long-term shrub-shrub transitions. Shrub demographic (ShrubDemo) experiments will be analyzed and submitted for publication, and new experiments will be designed to fill gaps in our understanding of the demographic processes underlying long-term shifts in both density and species. To complement our new data on shrub demographic bottlenecks, we will continue greenhouse and field based QuadCam hardware and analysis systems for gradual deployment at the existing long-term NPP sites. These will add to our understanding of the role of rapid turnover in herbaceous and woody demographics. At our detailed ecohydrology research site we will continue sampling soil surface hydraulic properties to understand the role of surface sealing on runoff production. We will analyze long-term water, energy, and carbon flux measurements from the perspective of rainfall events (intensity, duration, distribution, and frequency) to understand triggers for vegetation productivity and phenology in response to pulse events.

D. Transition to novel ecosystems

We will continue experiments exploring invasion dynamics of the exotic Lehmann's lovegrass in response to climate, herbivory, and nutrients, including how the soil microbiomes of Lehmann's lovegrass and Black Grama may influence grass establishment processes.

E. Transitions under climate change

We will continue monitoring the long-term experiments including those in which we manipulate precipitation amount, precipitation variability, nitrogen, herbivory and vapor pressure deficit (VPD).

Obj. 2: explain and predict multi-scale spatial heterogeneity in alternative states.

We have initiated a collaborative process-based modeling effort building on our diverse understanding of dryland ecology at JRN and in other drylands (i.e., the plant, soil, climate, herbivory and connectivity interactions and feedbacks underlying state-changes). The resulting synthetic model for dryland ecosystems will be applicable at the Jornada and in global drylands. We will expand basin scale remote sensing analysis to examine historical and on-going state change in southwestern drylands across the Chihuahuan, Sonoran, and Mojave desert regions. We will leverage new data-streams on vegetation structure from aerial and satellite imagery and lidar to diagnose vegetation states and state-change dynamics.

Obj. 3: apply new analytical concepts and tools to broader extents (regional to global) and examine consequences for ecosystem services.

Restore NM results were published in 2024, with monitoring of shrub control efforts and a study on the roles of climate vs. grazing on change in vegetation cover in drylands of Mongolia. Our partnerships in the grazing lands of East Africa for rangeland monitoring and prediction also build on JRN research, providing new insight for operational livestock insurance programs in the Horn of Africa.

PRODUCTS

i. Book

n/a

ii. Book chapter

n/a

iii. Peer reviewed journal or conference proceeding (12/2023-11/2024)

Andreoni, Kieran J., Brandon T. Bestelmeyer, David C. Lightfoot, and Robert L. Schooley. 2024. "Effects of Multiple Mammalian Herbivores and Climate on Grassland–Shrubland Transitions in the Chihuahuan Desert." *Ecology* n/a (n/a): e4460. https://doi.org/10.1002/ecy.4460.

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v. Datasets

(see attached at the end of the document)

IMPACT

What is the impact on the development of the principal discipline(s) of the project?

The Jornada Basin LTER project (JRN-LTER) continues to advance understanding and theory of dryland ecosystem functioning, relevant to applied range management and broader ecological theory. In particular, JRN LTER advances the application of ecological understanding of state transitions and alternative stable states in drylands, the climate change impacts in drylands, and the development of ecological theory on state change and ecosystem dynamics in temporally and spatially complex environments.

What is the impact on other disciplines?

Jornada Basin LTER results are directly relevant to livestock, range management, and dryland ecosystems across the southwestern USA and other arid and semi-arid lands globally.

JRN rangeland monitoring tools have been developed collaboratively with, and adopted for operational programs by, numerous Federal Agencies across the USA (e.g., BLM and NRCS) and globally (e.g. Mongolia and East Africa). JRN collaborations and outreach impact a variety of US and international, tropical, and temperate drylands.

What is the impact on the development of human resources?

Student training and mentoring opportunities in dryland ecology this year included direct support for 6 graduate students and 4 REU students, and participation of a larger number of students attending the Desert Ecology short-course and conducting research at the JRN with support from their JRN advisors, home universities, and independent research fellowships. We continue our commitment to accommodate more "non-traditional" undergraduate students. We continued our program for graduate networking and professional development (the "Desert Discourse" Series).

What was the impact on teaching and educational experiences?

K-12, undergraduate and graduate students from our host communities and neighboring institutions (K-12, Community and 4-year Colleges) benefit from field research opportunities and education/outreach activities.

What is the impact on physical resources that form infrastructure?

Nothing to report.

What is the impact on institutional resources that form infrastructure?

Nothing to report.

What is the impact on information resources that form infrastructure?

The JRN Information Management (IM) team continues to prioritize providing up-to-date research data described with consistent, high-quality metadata, and we are improving the discoverability and accessibility of Jornada data each year. Since JRN's last annual report, data management activity resulted in 8 new datasets and updates to 230 unique existing datasets published in our primary data catalog at the EDI repository (Figure 5), metrics which represent a slight decline compared our activity in 2023. We attribute this decline to two factors. First, the IM team focused on updating long-term datasets and publishing new data in advance of preparation for the new proposal (submitted in March 2024), and much of this activity occurred in the annual reporting period prior to this one. Second, in late March of 2024, the JRN IM Team lost a significant fraction of its IT infrastructure and support due to the indefinite shutdown of server and networking systems at the USDA Jornada Experimental Range office. For the past six months the IM team has devoted significant effort to moving servers, restoring networked storage and backup systems, and rebuilding workflows for managing and publishing research data. This change in our IT environment was a significant setback, but the IM team has taken this opportunity to improve the reliability, security, and resilience of the JRN IM system by making

use of modern cloud-based services and establishing redundant, distributed backups. Throughout the past year, more than thirty new datasets were quality-assured, described with metadata, and prepared for publication (though delayed due to IT issues). These include never-before-published datasets from projects completed early in the JRN program, new sensor network datasets, and a large collection of spatial data on Jornada Basin soil and vegetation cover. The IM team has also made progress training JRN students and investigators to us the ezEML metadata editor from the Environmental Data Initiative (EDI) repository, which has led to more efficient, selfguided preparation and publication of datasets from these contributors. Development efforts for harmonizing Jornada data and creating analysis ready data products (meteorology, biodiversity) are also ongoing. The JRN IM team engages frequently with the LTER Network's Information Management Committee, the EDI repository, and other partners in the environmental science and data community to support and contribute to open science and sound data management practices.

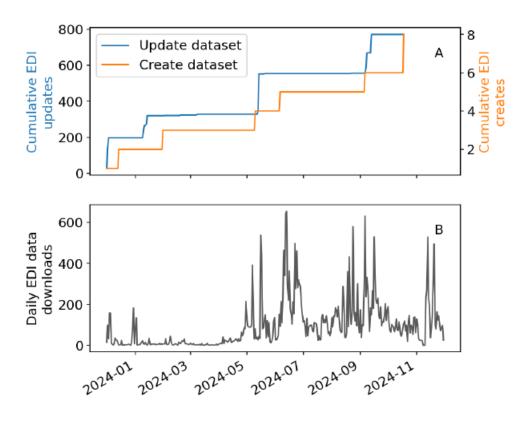


Figure 5. Publication and use of Jornada datasets during the 2024 annual report period. Panel A shows cumulative updates to existing datasets published at the EDI repository (blue line) and new datasets published (gold line, 8 total). Panel B shows daily data downloads from the EDI data portal, which have been filtered to remove robots and other automated events.

What is the impact on technology transfer?

Nothing to report.

What is the impact on society beyond science and technology?

Our K-12 outreach program reaches most children in the local school district and many additional children in other school districts across New Mexico. Field and classroom/schoolyard programs increase awareness and understanding in the general public with major long-term benefits for environmental and STEM literacy. The JRN-LTER has been working towards making its outreach programs more inclusive and accessible for marginalized communities. Participants in the K-12 programs for JRN include underrepresented and underserved groups. 75% of program participants are economically disadvantaged, and 77% are Hispanic, as defined and classified by the New Mexico Public Education Department. Jornada's K-12 outreach works with entire classes, schools, and sometimes districts. This helps promote equity by ensuring that all students are exposed to these enriching opportunities, not just those who have the resources to sign up for voluntary science education opportunities. To formalize our consideration of DEI in education and outreach programming, Asombro created a DEI lesson screener in 2020. The screener includes nine criteria that are formally evaluated in the early stages of lesson development. For example, we ensure that each lesson contains stories of diverse people and careers in STEM, that it includes connections to Spanish and Native languages when possible, and that Spanish versions are available for all worksheets and video captions. We use this tool for every new lesson we develop, and we shared this tool with the LTER Network Education and Outreach Committee.

		Date		Begin		
EDI package ID	Title	published		date	End date	DOI
			Gobbie, Katelyn			
	Soil physical and chemical properties of		G;Pietrasiak,			https://doi.org/10.6073/pasta
knb-lter-	gypsum & non-gypsum soils from the		Nicole;Drenovsky			/01123dd2785f8ff3cb314a83
jrn.210616002.1	Chihuahuan and Mojave Deserts in 2023	2024	, Rebecca E	5/17/23	6/9/23	7d3bb6fd
	Cover and frequency of biological soil		0 11: 1/ 1			
	crust community types, moss species,		Gobbie, Katelyn			
	vascular plants, and abiotic land surface		G;Drenovsky, Rebecca			https://doi.org/10.6073/p.octo
knb-lter-	features, on gypsum & non-gypsum soils from the Chihuahuan and Mojave Deserts		E;Pietrasiak,			https://doi.org/10.6073/pasta /488c8b229fed3e872a57a91
jrn.210616001.1	in 2023	2024	Nicole	5/17/23	6/0/22	25986e5a8
JIII.2 100 1000 1.1	Physical soil characteristics, microbial	2024	TAICOIC	3/11/23	0/3/23	233006380
	community composition, extracellular					
	enzymatic activity, biologically based					
	phosphorus (BBP) pools, and available		Stover,			
	phosphorus from two soil depths, four		Dylan;McLaren,			https://doi.org/10.6073/pasta
knb-lter-	microhabitats, and four landforms at the		Jennie;Pietrasiak,			/9085a63e6ff1e310f13784b6
jrn.210578001.1	Jornada Experimental Range, 2021.	2024	Nicole;Jin, Lixin	6/1/21	6/30/22	fa0f8616
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 15					
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jrn.210548103.31	ongoing	2024	Anderson, John	8/11/17	9/2/24	3e481210
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 14					httm://dei.eve/10.6072/meete
knb-lter-	meteorological station: 1-second					https://doi.org/10.6073/pasta /6eb5d55c2548ce5260d3cdc
jrn.210548102.31	summary precipitation data: 2017 - ongoing	2024	Anderson, John	8/11/17	0/2/24	50e916e9b
JIII.2 10340 102.3 I	Jornada Basin LTER Cross-scale	2024	Anderson, John	0/11/17	9/2/24	306910690
	Interactions Study (CSIS) Block 13					
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jrn.210548101.32	ongoing	2024	Anderson, John	8/11/17	8/30/24	00aa127f5
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 11					
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jrn.210548100.33		2024	Anderson, John	8/11/17	8/27/24	81b82e6f1
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 10					
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knb-lter-	summary precipitation data: 2017 -	2024	Anderson, John	0/11/17	0/27/24	/1aba6511c55713b63cf108e 7cbcb3e25
jrn.210548099.32	ongoing Jornada Basin LTER Cross-scale	2024	Anderson, John	8/11/17	0/2//24	7CDCD3e25
	Interactions Study (CSIS) Block 9					
	meteorological station: 1-second					https://doi.org/10.6073/pasta
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jrn.210548098.31	ongoing	2024	Anderson, John	8/11/17	9/6/24	ad6d768cc
	Jornada Basin LTER Cross-scale		,			
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	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 7					
1 1 16	meteorological station: 1-second					https://doi.org/10.6073/pasta
knb-lter-	summary precipitation data: 2017 -	000.	Al	0/44/4=	0/0/0:	/a1c34ae9e0492e008e2de4
jrn.210548096.30		2024	Anderson, John	8/11/17	9/6/24	cd8a7f6144
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 6					https://doi.org/10.6073/p
knb-lter-	meteorological station: 1-second summary precipitation data: 2017 -					https://doi.org/10.6073/pasta /d798c7c245f1f39d8362c71
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jrn.210548094.31	ongoing Jornada Basin LTER Cross-scale	2024	Anderson, John	8/11/17	9/6/24	95cc8974c
	Interactions Study (CSIS) Block 4					
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jrn.210548093.32	ongoing	2024	Anderson, John	8/11/17	9/6/24	c33a8ac0b
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 3					
1 1 1	meteorological station: 1-second					https://doi.org/10.6073/pasta
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jrn.210548092.31	ongoing Jornada Basin LTER Cross-scale	2024	Anderson, John	8/11/17	8/28/24	ceerrioioi
	Interactions Study (CSIS) Block 2					
	meteorological station: 1-second					https://doi.org/10.6073/pasta
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	Jornada Basin LTER Cross-scale					
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	meteorological station: Daily average soil					https://doi.org/10.6073/pasta
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jrn.210548090.39	ongoing Jornada Basin LTER Cross-scale	2024	Duniway, Michael	5/8/13	9/11/24	4 Hoboleac
	Interactions Study (CSIS) Block 14					
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1 1 1	meteorological station: Daily average soil					https://doi.org/10.6073/pasta
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jrn.210548088.40	Jornada Basin LTER Cross-scale	2024	Duniway, Michael	3/23/14	9/11/24	20940900
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	Jornada Basin LTER Cross-scale					
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	Jornada Basin LTER Cross-scale					
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	Interactions Study (CSIS) Block 8					
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	Interactions Study (CSIS) Block 7					https://dai/40.0070/
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jrn.210548082.38		2024	Duniway, Michael	5/8/13	9/11/24	86ea31cc4
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	Interactions Study (CSIS) Block 6					
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	Interactions Study (CSIS) Block 5					
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knb-lter-	volumetric water content data: 2013 -	0004	Di Mishaal	5/0/40	0/44/04	/8b048608506b9e2452e4db
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jrn.210548078.37	ongoing	2024	Duniway, Michael	5/15/13	9/11/24	51af58056
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jrn.210548055.39 data: 2013 - ongoing 2024 Anderson, John 5/7/13 9/11/24 16e91cbd			2024	Anderson John	5/7/13	9/11/24	

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jrn.210548052.39	data: 2013 - ongoing	2024	Anderson, John	5/8/13	9/11/24	df3d2feb7
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jrn.210548051.37	data: 2013 - ongoing	2024	Anderson, John	4/29/13	9/11/24	3c982bd530
j2 100 1000 1.01	Jornada Basin LTER Cross-scale	2021	7 tildordon, donin	4/20/10	0/11/2-	000020000
	Interactions Study (CSIS) Block 5					https://doi.org/10.6073/pasta
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jrn.210548050.39	data: 2013 - ongoing	2024	Anderson, John	5/8/13	9/11/24	86aff87d
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 4					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: Daily summary	0004		5/0/40	0/44/04	/d245b975da5144adb5676e
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	Jornada Basin LTER Cross-scale Interactions Study (CSIS) Block 3					https://doi.org/10.6073/pasta
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jrn.210548048.38	data: 2013 - ongoing	2024	Anderson, John	5/15/13	9/11/24	06ca6fefd
<u>,,</u>	Jornada Basin LTER Cross-scale			5, 15, 15	9 , 11, 21	
	Interactions Study (CSIS) Block 2					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: Daily summary					/9e86a1ac16d9a58257de4bf
jrn.210548047.39	data: 2013 - ongoing	2024	Anderson, John	5/15/13	9/11/24	dd6590fd2
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knb-lter-	Interactions Study (CSIS) Block 1 meteorological station: Daily summary					https://doi.org/10.6073/pasta /12e945b2889d436840bc09
jrn.210548046.39	data: 2013 - ongoing	2024	Anderson, John	5/15/13	9/11/24	946881b009
JIII.2 100+00+0.00	Jornada Basin LTER Cross-scale	2027	Anderson, com	3/13/13	3/11/24	3400010003
	Interactions Study (CSIS) Block 15					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 1-hour summary					/6e4d4c77512dc262cfb7b2f
jrn.210548045.39	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	d6c7fcd7c
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 14					https://doi.org/10.6073/pasta
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JIII.210346044.39	data: 2017 - ongoing Jornada Basin LTER Cross-scale	2024	Anderson, John	8/10/17	9/12/24	12f39e9f2
	Interactions Study (CSIS) Block 13					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 1-hour summary					/2fe7aa7f0e0e1c116176b02
jrn.210548043.40	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	15374b7da
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 12					https://doi.org/10.6073/pasta
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jrn.210548042.40	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	cfba86054
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jrn.210548041.37	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	35ca1532d
J 100 +00 + 1.01	Jornada Basin LTER Cross-scale	2024		5/ 15/ 17	J112124	
	Interactions Study (CSIS) Block 10					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 1-hour summary					/edfd0181601f6994a2b7298
jrn.210548040.39		2024	Anderson, John	8/10/17	9/12/24	0811edf77
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 9					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 1-hour summary	0004	Andorsen	0/40/47	0/40/04	/ed08a482f2eaebcf6e0de9af
jrn.210548039.37	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	5bb53368

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knb-lter-	meteorological station: 1-hour summary					/d464047f0320d314eefe4b4
jrn.210548038.36	data: 2017 - ongoing	2024	Anderson, John	8/10/17	8/25/24	69de3d498
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knb-lter-	Interactions Study (CSIS) Block 7 meteorological station: 1-hour summary					https://doi.org/10.6073/pasta /e41a4dbe9d9440600014b2
jrn.210548037.38	, and the second	2024	Anderson, John	8/10/17	0/12/24	376e0661e1
JIII.2 10340031.30	Jornada Basin LTER Cross-scale	2024	Anderson, John	0/10/17	3/12/24	370000101
	Interactions Study (CSIS) Block 6					https://doi.org/10.6073/pasta
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jrn.210548036.38	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	69dcfc3fb
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jrn.210548035.39	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	47ee1d129
	Jornada Basin LTER Cross-scale					https://doi.org/10.0073/p.oots
knb-lter-	Interactions Study (CSIS) Block 4 meteorological station: 1-hour summary					https://doi.org/10.6073/pasta /e606c6875782f1f791562fe3
jrn.210548034.38	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	dac9c564
JIII.2 10340034.30	Jornada Basin LTER Cross-scale	2024	Anderson, John	0/10/17	3/12/24	dac36304
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jrn.210548033.39	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	39b97e4a5a
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 2					https://doi.org/10.6073/pasta
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jrn.210548032.39	data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	171ea569b
	Jornada Basin LTER Cross-scale					
l	Interactions Study (CSIS) Block 1					https://doi.org/10.6073/pasta
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jrn.210548030.38		2024	Anderson, John	8/10/17	9/12/24	8af6dfd09
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jrn.210548029.39	summary data: 2017 - ongoing	2024	Anderson, John	8/10/17	9/12/24	4a9a34b8
	Jornada Basin LTER Cross-scale					http://dei.eng/40.0070/c-e-t-
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	meteorological station: 30-minute summary data: 2017 - ongoing	2024	Anderson, John	8/10/17	0/12/24	ad29094f9
JIII.Z 100 4 0020.39	Jornada Basin LTER Cross-scale	2024	, anderson, donn	0/10/17	3/12/24	44200010
	Interactions Study (CSIS) Block 12					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 30-minute					/3a8cefc7e0b1bc16fa59486
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	Jornada Basin LTER Cross-scale					
1 1 16	Interactions Study (CSIS) Block 10					https://doi.org/10.6073/pasta
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	Interactions Study (CSIS) Block 9					https://doi.org/10.6073/pasta
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<u>,2.100 1002 1.01</u>	Jornada Basin LTER Cross-scale	2027		5, 10, 11	5, 12,2T	==:3:00:10
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jrn.210548022.38		2024	Anderson, John	8/10/17	8/25/24	06e8f5fa5
	Jornada Basin LTER Cross-scale					//. //. //. //. //. //. //. //. //.
l	Interactions Study (CSIS) Block 6					https://doi.org/10.6073/pasta
knb-lter- jrn.210548021.37	meteorological station: 30-minute summary data: 2017 - ongoing	2024	Anderson, John	8/10/17	0/12/24	/a33ae15620ceb62bfa41b5b 94bfd97c5
JIII.2 1034602 1.31	Jornada Basin LTER Cross-scale	2024	Anderson, John	0/10/17	3/12/24	946109703
	Interactions Study (CSIS) Block 5					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 30-minute					/84186f862640cd11a5298d7
jrn.210548020.38		2024	Anderson, John	8/10/17	9/12/24	a8abb4ddf
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 4					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 30-minute					/877d52247064784e6c4c86
jrn.210548019.39		2024	Anderson, John	8/10/17	9/12/24	4b071173a0
	Jornada Basin LTER Cross-scale					
knb-lter-	Interactions Study (CSIS) Block 3					https://doi.org/10.6073/pasta /c6c32d644549f40275f57ee
jrn.210548018.38	meteorological station: 30-minute summary data: 2017 - ongoing	2024	Anderson, John	8/10/17	0/12/24	2f2744f10
JIII.2 103400 10.30	Jornada Basin LTER Cross-scale	2024	Anderson, John	0/10/17	3/12/24	2127 44110
	Interactions Study (CSIS) Block 2					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 30-minute					/2520a1015a98c0d941e675
jrn.210548017.39	_	2024	Anderson, John	8/10/17	9/12/24	4a720b02d1
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 1					https://doi.org/10.6073/pasta
knb-lter-	meteorological station: 30-minute					/d33badc456a595c8f2a0f3e
jrn.210548016.40		2024	Anderson, John	8/10/17	9/12/24	75bd8eb2b
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 15					https://doi.org/10.6072/posts
knb-lter-	meteorological station: 5-minute summary wind and air temperature data: 2013 -					https://doi.org/10.6073/pasta /99e6511436d029c7bb7748
jrn.210548015.39		2024	Anderson, John	5/8/13	9/12/24	5750e48a4f
JIII.2 100400 10.00	Jornada Basin LTER Cross-scale	202-1	/ tridereeri, deriir	0/0/10	0/12/2-	0700040441
	Interactions Study (CSIS) Block 14					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/2e03ab35128829e4b1191d
jrn.210548014.39		2024	Anderson, John	6/10/13	9/12/24	5f84304065
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 13					
lonk Itan	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta /5a6a69c2a56c5b7619f0198
knb-lter- jrn.210548013.40	wind and air temperature data: 2013 - ongoing	2024	Anderson, John	5/23/14	0/12/24	aa837163b
JIII.2 100400 10.40	Jornada Basin LTER Cross-scale	2024	Anderson, John	3/23/14	3/12/24	1000
	Interactions Study (CSIS) Block 12					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/79c755978c2a9989b793c3f
jrn.210548012.40	ongoing	2024	Anderson, John	4/25/13	9/12/24	c067cd8e4
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 11					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -	2024	Anderson John	E/0/40	0/05/04	/4624f1d443f7870dffe3ba5c
jrn.210548011.37	Jornada Basin LTER Cross-scale	2024	Anderson, John	5/8/13	8/25/24	dd23b020
	Interactions Study (CSIS) Block 10					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/1aa6f6829713ff4ce92bf114
jrn.210548010.38		2024	Anderson, John	5/7/13	8/25/24	82ea4bc2
	Jornada Basin LTER Cross-scale		, ,	3,,,,,		
	Interactions Study (CSIS) Block 9					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/21ec0f3d20ceea7c8036905
jrn.210548009.37	ongoing	2024	Anderson, John	5/7/13	8/25/24	7eb8d1452

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	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 8					http://doi.org/10.0070/pt-
Inch Man	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -	2024	Anderson John	E/7/12	0/25/24	/9ac97a16c8df4d2f7b69c05 6c973bc65
jrn.210548008.38	ongoing Jornada Basin LTER Cross-scale	2024	Anderson, John	5/7/13	8/23/24	009730003
	Interactions Study (CSIS) Block 7					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/19466e316f4253635123934
jrn.210548007.38	ongoing	2024	Anderson, John	5/8/13	8/25/24	fc446167a
J	Jornada Basin LTER Cross-scale			5,5,15	0,-0,-1	
	Interactions Study (CSIS) Block 6					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/1a037e63502ffb4101097e2
jrn.210548006.38	ongoing	2024	Anderson, John	5/8/13	9/12/24	6ada11e00
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 5					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/6dbb54aceb071049791bbc
jrn.210548005.40	ongoing	2024	Anderson, John	5/8/13	8/25/24	eb9e1a1b86
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 4					
look Han	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -	0004	A	E/C/40	0/40/04	/37fc3b97cf7e84a9d557945
jrn.210548004.39	ongoing Jornada Basin LTER Cross-scale	2024	Anderson, John	5/6/13	9/12/24	11502e49e
	Interactions Study (CSIS) Block 3					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/aca0b1fd1a0c4294fddf7b04
jrn.210548003.39	ongoing	2024	Anderson, John	5/15/13	8/25/24	a2c455f6
j <u>2</u>	Jornada Basin LTER Cross-scale		7 41.401.5011, 001111	5, 15, 15	0,20,2	
	Interactions Study (CSIS) Block 2					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -					/da92fc519a3653ad331f1ab
jrn.210548002.39	ongoing	2024	Anderson, John	5/15/13	8/25/24	63606c528
	Jornada Basin LTER Cross-scale					
	Interactions Study (CSIS) Block 1					
	meteorological station: 5-minute summary					https://doi.org/10.6073/pasta
knb-lter-	wind and air temperature data: 2013 -	0004		5/45/40	5/40/04	/f088f23eea2bd05614709e5
jrn.210548001.39	ongoing	2024	Anderson, John	5/15/13	5/10/24	ca8c8866c
			Kimsal, Charles;Anderson			
	Water level data (15-min frequency) from		, John;Hall,			
	18 instrumented playas in the Jornada		Seth;Vivoni,			https://doi.org/10.6073/pasta
knb-lter-	Basin, southern New Mexico, USA, from		Enrique;Sala,			/fd786d8bfaf010446b3ffbb50
jrn.210465001.1	2016-2022	2023	Osvaldo E	6/15/16	11/7/22	b8bd258
j <u></u>	Mammal occurrence data derived from		Wagnon, Casey	0/10/10	11/1/22	2004200
	camera traps in grassland-shrubland		J;Schooley,			
	ecotones at 24 sites in the Jornada Basin,		Robert			https://doi.org/10.6073/pasta
knb-lter-	southern New Mexico, USA, 2014-		L;Bestelmeyer,			/bf6aea9b4ff8656d6a7d3b0a
jrn.210444001.2	ongoing	2024	Brandon T	1/1/14	12/31/20	1e5f9f30
	Jornada Basin LTER: Wireless substation					
	at NPP T-WEST site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/7ab133c375476ae7e32254
jrn.210437120.28		2024	Duniway, Michael	7/15/13	9/6/24	466af1ff2c
	Jornada Basin LTER: Wireless substation					1.11
Il. 14	at NPP T-TAYL site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -	2004	Duniway Michael	6/40/40	0/0/04	/2adb4e5dd031b29a3cb984
jrn.210437119.28	ongoing Jornada Basin LTER: Wireless substation	2024	Duniway, Michael	6/18/13	9/6/24	93c7276a1f
	at NPP T-EAST site: 30-minute soil					https://doi.org/10.6073/pasta
						/75f6ec93057c628d009d71c
knb-lter-	volumetric water content data: 2013 -					

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	Jornada Basin LTER: Wireless substation					
long to the m	at NPP P-TOBO site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter- jrn.210437117.29	volumetric water content data: 2013 - ongoing	2024	Duniway, Michael	10/2/13	9/6/24	/9bbc76b383c12f963cde34e d3e494299
J.11.2.10 101 111.20	Jornada Basin LTER: Wireless substation	2021	Burnway, monacr	10/2/10	0/0/24	100101200
	at NPP P-SMAL site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2017 -					/c54bdd6bfbd696a92971bfb
jrn.210437116.29		2024	Duniway, Michael	3/16/17	9/6/24	1fd2615f5
	Jornada Basin LTER: Wireless substation at NPP M-WELL site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/4843e4f3e644bc128d360b8
jrn.210437115.29	ongoing	2024	Duniway, Michael	6/18/13	9/6/24	7e782c1c8
	Jornada Basin LTER: Wireless substation					
	at NPP M-RABB site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/8164270a2f1fd8f9b13bac84
jrn.210437114.28	ongoing	2024	Duniway, Michael	6/18/13	6/24/24	13ff4d17
	Jornada Basin LTER: Wireless substation at NPP M-NORT site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/cedf0ada545f6019796ffa74
jrn.210437113.29	ongoing	2024	Duniway, Michael	6/18/13	9/6/24	718a7ecc
	Jornada Basin LTER: Wireless substation		3,			
	at NPP G-SUMM site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/9f43687c9dfeffb9890723d8
jrn.210437112.29	ongoing	2024	Duniway, Michael	6/18/13	9/6/24	47c36721
	Jornada Basin LTER: Wireless substation at NPP G-IBPE site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/de8ecea8eb9d4dc4d05056
jrn.210437111.29		2024	Duniway, Michael	7/17/13	9/6/24	698eb228c5
,	Jornada Basin LTER: Wireless substation		3,			
	at NPP G-BASN site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -				a /= /a /	/fbe7d96ea67ba3d66a2a138
jrn.210437110.28	Jornada Basin LTER: Wireless substation	2024	Duniway, Michael	8/12/13	9/7/24	88b8a943d
	at NPP C-SAND site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/755f9a1e565a86c09f3c907
jrn.210437109.28	ongoing	2024	Duniway, Michael	7/12/13	8/25/24	4ea3b8803
	Jornada Basin LTER: Wireless substation					
	at NPP C-GRAV site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -	2024	Duniway, Michael	7/10/10	0/05/04	/f5fa0546f93f9014b336711e a84021ee
jrn.210437108.29	Jornada Basin LTER: Wireless substation	2024	Duniway, Michael	7/12/13	0/23/24	1004021ee
	at NPP C-CALI site: 30-minute soil					https://doi.org/10.6073/pasta
knb-lter-	volumetric water content data: 2013 -					/12c9225fb7149662f7dcfc81
jrn.210437107.29		2024	Duniway, Michael	7/19/13	8/25/24	331933f3
	Jornada Basin LTER: Wireless					
1 1 1	meteorological station at NPP G-IBPE					https://doi.org/10.6073/pasta
knb-lter- jrn.210437106.40	site: 15-minute summary data: 2016 - ongoing	2024	Anderson, John	3/1/16	0/7/24	/a1ebfab87fd339fe8691ceec 33c2f453
JIII.2 10437 100.40	Jornada Basin LTER: Wireless	2024	Anderson, John	3/1/10	9/1/24	33621433
	meteorological station at NPP T-WEST					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/42bc06bd722ec75bef32b7f
jrn.210437105.41	content data: 2013 - ongoing	2024	Duniway, Michael	7/30/13	9/6/24	cb2346af9
	Jornada Basin LTER: Wireless					
l	meteorological station at NPP T-TAYL					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water	2024	Duniway Michael	0/7/12	0/6/24	/97057e11795235a136a08a
jrn.210437104.41	content data: 2013 - ongoing Jornada Basin LTER: Wireless	2024	Duniway, Michael	8/7/13	9/0/24	0595108078
	meteorological station at NPP T-EAST					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/7013c249bf537460181099d
jrn.210437103.41	content data: 2013 - ongoing	2024	Duniway, Michael	7/29/13	9/6/24	ac6a2514d
	Jornada Basin LTER: Wireless					
look the	meteorological station at NPP P-TOBO					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water	2024	Duniway Michael	E IA IA A	0/6/04	/7c23862ee98dfecfac301fca
jrn.210437102.40	content data: 2013 - ongoing	2024	Duniway, Michael	5/1/14	9/0/24	1483b3f2

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	Jornada Basin LTER: Wireless					
	meteorological station at NPP P-SMAL					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/55f943518f06110858b910f1
jrn.210437101.41	content data: 2017 - ongoing	2024	Duniway, Michael	3/14/17	9/6/24	17fead03
	Jornada Basin LTER: Wireless					
	meteorological station at NPP P-COLL					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water	0004	D Miskard	7/07/40	0/0/04	/eb5ebc3471e087a49503d4
jrn.210437100.42	content data: 2013 - ongoing	2024	Duniway, Michael	7/27/13	9/6/24	4a1e7ae52b
	Jornada Basin LTER: Wireless meteorological station at NPP M-WELL					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/151be94a8207e17d0dda90
jrn.210437099.41	content data: 2013 - ongoing	2024	Duniway, Michael	8/13/13	9/6/24	6af04122f2
JIII.2 10 107 000.41	Jornada Basin LTER: Wireless	2024	Daniway, Micriaer	0/10/10	3/0/24	0410412212
	meteorological station at NPP M-RABB					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/2b9778a17090b671e63b22
jrn.210437098.40	content data: 2013 - ongoing	2024	Duniway, Michael	8/12/13	5/9/24	2618fce486
<u>, </u>	Jornada Basin LTER: Wireless		, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	0,0,=:	
	meteorological station at NPP M-NORT					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/d8b98a0f9de7f208622fd3a3
jrn.210437097.41	content data: 2013 - ongoing	2024	Duniway, Michael	10/2/14	9/6/24	fee020f5
	Jornada Basin LTER: Wireless					
	meteorological station at NPP G-SUMM					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/cf6fbe6daba157cb125f3c60
jrn.210437096.40	content data: 2013 - ongoing	2024	Duniway, Michael	7/24/13	9/6/24	2cf1b559
	Jornada Basin LTER: Wireless					
	meteorological station at NPP G-IBPE					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/472d5738255c827aed5c07
jrn.210437095.41	content data: 2013 - ongoing	2024	Duniway, Michael	8/6/13	9/6/24	9e27595850
	Jornada Basin LTER: Wireless					
1 1 11	meteorological station at NPP G-BASN					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water	2024	Dunings, Michael	7/06/40	0/6/04	/43c6486579c10bc48db5a6
jrn.210437094.42	content data: 2013 - ongoing Jornada Basin LTER: Wireless	2024	Duniway, Michael	7/26/13	9/6/24	961c566b70
	meteorological station at NPP C-SAND					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/291a05272cdfcd8f5ca0ed7
jrn.210437093.43	content data: 2013 - ongoing	2024	Duniway, Michael	11/20/13	9/6/24	74a47be7b
<u>jiii.210101000.10</u>	Jornada Basin LTER: Wireless	2021	Bariivay, micriaer	11/20/10	0/0/21	7 14 17 20 12
	meteorological station at NPP C-GRAV					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/3c1b7200cd109e71aca9e0
jrn.210437092.42	content data: 2013 - ongoing	2024	Duniway, Michael	9/16/13	9/6/24	e94128b2f4
	Jornada Basin LTER: Wireless					
	meteorological station at NPP C-CALI					https://doi.org/10.6073/pasta
knb-lter-	site: Daily average soil volumetric water					/030200c1f25b17647ebab49
jrn.210437091.43	content data: 2013 - ongoing	2024	Duniway, Michael	11/5/13	9/6/24	e3a83f19a
	Jornada Basin LTER: Wireless					
	meteorological station at NPP T-WEST					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water	0004		= /0.0 / / 0	a /= /a /	/b9c36a1941bc25b09d8c3f7
jrn.210437090.41	content data: 2013 - ongoing	2024	Duniway, Michael	7/30/13	9/7/24	d195f57c2
	Jornada Basin LTER: Wireless					http://dei.aug/40.0070/aa-t-
look Hay	meteorological station at NPP T-TAYL					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water	2024	Duniway Michael	0/7/40	0/7/04	/d05276a984e2a233c53d4d 504572e52a
jrn.210437089.41	content data: 2013 - ongoing	2024	Duniway, Michael	8/7/13	9///24	504572e52a
	Jornada Basin LTER: Wireless meteorological station at NPP T-EAST					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water					/68537b8caaff719c9ceb993
jrn.210437088.41	content data: 2013 - ongoing	2024	Duniway, Michael	7/29/13	8/25/24	90e8bbd91
JIII.2 10431 000.4 I	Jornada Basin LTER: Wireless	2024	Darnway, Michael	1123113	0/23/24	COUDING
	meteorological station at NPP P-TOBO					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water					/72cf52b872ea620094adeaa
jrn.210437087.39	content data: 2013 - ongoing	2024	Duniway, Michael	5/4/14	9/7/24	7d11554fc
j210401001.00	Jornada Basin LTER: Wireless	2024	= armvay, mioriaei	- G(-π/ 1-π	5,1724	
	meteorological station at NPP P-SMAL					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water					/58a7727345ea98a993445d
jrn.210437086.41	content data: 2017 - ongoing	2024	Duniway, Michael	3/14/17	0/7/24	558ea8f865

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	Jornada Basin LTER: Wireless					
	meteorological station at NPP P-COLL					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water					/6344497103101b40c44831
jrn.210437085.42	content data: 2013 - ongoing	2024	Duniway, Michael	7/26/13	9/7/24	4a56650702
	Jornada Basin LTER: Wireless					
look Itan	meteorological station at NPP M-WELL					https://doi.org/10.6073/pasta
knb-lter- jrn.210437084.41	site: 30-minute soil volumetric water content data: 2013 - ongoing	2024	Duniway, Michael	8/13/13	0/7/24	/ff3f0ce7a692d9c07cbb4ed1 74690fcb
JIII.2 10437 004.4 1	Jornada Basin LTER: Wireless	2024	Duniway, Michael	0/13/13	9/1/24	74090100
	meteorological station at NPP M-RABB					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water					/75a33808cd9c1ad1164836
jrn.210437083.39	content data: 2013 - ongoing	2024	Duniway, Michael	8/12/13	5/10/24	e8cd0a3425
	Jornada Basin LTER: Wireless					
	meteorological station at NPP M-NORT					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water					/f348b985dcae90bec4614b0
jrn.210437082.40	content data: 2013 - ongoing	2024	Duniway, Michael	7/23/13	8/25/24	510a71a7b
	Jornada Basin LTER: Wireless					
	meteorological station at NPP G-SUMM					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water	0004	D Minkan	7/04/40	0/05/04	/d43efdd6be9097175065056
jrn.210437081.41	content data: 2013 - ongoing Jornada Basin LTER: Wireless	2024	Duniway, Michael	7/24/13	8/25/24	f25ab0f46
	meteorological station at NPP G-IBPE					https://doi.org/10.6073/pasta
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jrn.210437080.41	content data: 2013 - ongoing	2024	Duniway, Michael	8/6/13	9/7/24	ca4ecc305
JIII.2 10+01 000.+1	Jornada Basin LTER: Wireless	2024	Barnway, Micriaer	0/0/10	0/1/24	04100000
	meteorological station at NPP G-BASN					https://doi.org/10.6073/pasta
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jrn.210437079.43	content data: 2013 - ongoing	2024	Duniway, Michael	7/25/13	9/7/24	437325ec4
	Jornada Basin LTER: Wireless					
	meteorological station at NPP C-SAND					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute soil volumetric water					/be16f9566ea91e96de36fcf2
jrn.210437078.42		2024	Duniway, Michael	11/19/13	8/25/24	882d09e4
	Jornada Basin LTER: Wireless					https://doi.org/10.0073/p.octo
knb-lter-	meteorological station at NPP C-GRAV site: 30-minute soil volumetric water					https://doi.org/10.6073/pasta /cfb9b536a99544ddbeca3b7
jrn.210437077.43		2024	Duniway, Michael	9/16/13	8/25/24	11a4425a9
JIII.2 10437077.43	Jornada Basin LTER: Wireless	2024	Duniway, Michael	3/10/13	0/23/24	114442343
	meteorological station at NPP C-CALI					https://doi.org/10.6073/pasta
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	data: 2013 - ongoing	2024	Anderson, John	7/30/13	9/6/24	09c2ff1b91
JIII.2 10 407 07 0.00	Jornada Basin LTER: Wireless	2021	/ tridereeri, deriir	7/00/10	3/0/24	0002111501
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jrn.210437071.35	data: 2017 - ongoing	2024	Anderson, John	3/28/17	8/30/24	233074d62
	Jornada Basin LTER: Wireless					
look Itan	meteorological station at NPP P-COLL					https://doi.org/10.6073/pasta
knb-lter-	site: 1-second summary precipitation	2024	Andorson laba	7/06/40	0/6/04	/e0ab02df58476ac5cc63923
jiii.∠10437070.35	data: 2013 - ongoing	2024	Anderson, John	7/26/13	9/0/24	52178efb8

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knb-lter-	Jornada Basin LTER: Wireless meteorological station at NPP M-WELL site: 1-second summary precipitation	2004	A	0/40/40	0/0/04	https://doi.org/10.6073/pasta /c9e794fc303811d09cba7ef
jrn.210437069.36 knb-lter- jrn.210437068.35	data: 2013 - ongoing Jornada Basin LTER: Wireless meteorological station at NPP M-RABB site: 1-second summary precipitation data: 2013 - ongoing		Anderson, John Anderson, John	8/19/13		55065065f https://doi.org/10.6073/pasta /c88db1df757e681f61034fd1 878a2d24
knb-lter- jrn.210437067.35	Jornada Basin LTER: Wireless meteorological station at NPP M-NORT site: 1-second summary precipitation data: 2013 - ongoing	2024	Anderson, John	7/24/13	9/6/24	https://doi.org/10.6073/pasta /eba4665c951725c67614ac 428d59acc1
knb-lter- jrn.210437066.37	Jornada Basin LTER: Wireless meteorological station at NPP G-SUMM site: 1-second summary precipitation data: 2013 - ongoing	2024	Anderson, John	7/24/13	9/6/24	https://doi.org/10.6073/pasta /3e5448a9a2599506ed1182 5fc72f5080
knb-lter- jrn.210437065.38	Jornada Basin LTER: Wireless meteorological station at NPP G-IBPE site: 1-second summary precipitation data: 2013 - ongoing	2024	Anderson, John	8/6/13	9/5/24	https://doi.org/10.6073/pasta /2ace12595fb31d3de919fca be34c1167
knb-lter- jrn.210437064.39	Jornada Basin LTER: Wireless meteorological station at NPP G-BASN site: 1-second summary precipitation data: 2013 - ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	7/26/13	9/6/24	https://doi.org/10.6073/pasta /29c903ecfe8d8a12e50d28f 0372bc712
knb-lter- jrn.210437063.37	meteorological station at NPP C-SAND site: 1-second summary precipitation data: 2013 - ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	8/2/13	9/6/24	https://doi.org/10.6073/pasta /80194ef481bf90fe72454484 24084006
knb-lter- jrn.210437062.36	meteorological station at NPP C-GRAV site: 1-second summary precipitation data: 2013 - ongoing	2024	Anderson, John	8/2/13	9/6/24	https://doi.org/10.6073/pasta /f86332bad5b0626305662be c47df862d
knb-lter- jrn.210437061.38		2024	Anderson, John	7/24/13	9/6/24	https://doi.org/10.6073/pasta /ad236b97b990eafc3e33290 6848943e8
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knb-lter- jrn.210437059.42 knb-lter-	meteorological station at NPP T-TAYL site: Daily summary data: 2013 - ongoing Jornada Basin LTER: Wireless meteorological station at NPP T-EAST	2024	Anderson, John	8/7/13	9/6/24	/95dd647710f035439f14989 09932d90f https://doi.org/10.6073/pasta /d4a56ac783302db0c22b4a
jrn.210437058.41 knb-lter-	site: Daily summary data: 2013 - ongoing Jornada Basin LTER: Wireless meteorological station at NPP P-TOBO		Anderson, John	7/30/13		1349a7bd01 https://doi.org/10.6073/pasta /4981e1b58567a62996fdfe4
jrn.210437057.42 knb-lter- jrn.210437056.43	site: Daily summary data: 2013 - ongoing Jornada Basin LTER: Wireless meteorological station at NPP P-SMAL site: Daily summary data: 2017 - ongoing		Anderson, John Anderson, John	3/14/17		bbedc4f2e https://doi.org/10.6073/pasta /b21323a084173e714ab86f3 456fdf026
knb-lter- jrn.210437055.42	Jornada Basin LTER: Wireless meteorological station at NPP P-COLL site: Daily summary data: 2013 - ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	7/26/13	9/6/24	https://doi.org/10.6073/pasta /c6efff28ed5d1842154eaf5d 8a8b7189 https://doi.org/10.6073/pasta
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jrn.210437053.41 knb-lter-	site: Daily summary data: 2013 - ongoing Jornada Basin LTER: Wireless meteorological station at NPP M-NORT		Anderson, John	8/25/15		dce393c23 https://doi.org/10.6073/pasta /a44e02a9ac9f54464ed13c8
jrn.210437052.40 knb-lter- jrn.210437051.40	site: Daily summary data: 2013 - ongoing Jornada Basin LTER: Wireless meteorological station at NPP G-SUMM site: Daily summary data: 2013 - ongoing		Anderson, John Anderson, John	7/23/13		20ee06315 https://doi.org/10.6073/pasta /8e1363e7e5db76d248d22a 0c4a50e665

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	Jornada Basin LTER: Wireless					https://doi.org/10.6073/pasta
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Jrn.210437049.43	site: Daily summary data: 2013 - ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	7/26/13	9/6/24	6bc2f531 https://doi.org/10.6073/pasta
knb-lter-	meteorological station at NPP C-SAND					/752da0117ebda957f036db3
jrn.210437048.42	_	2024	Anderson, John	11/20/13		7e599fb00
<u>,</u>	Jornada Basin LTER: Wireless			,,		https://doi.org/10.6073/pasta
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jrn.210437046.45		2024	Anderson, John	11/5/13	9/6/24	a4615239b
	Jornada Basin LTER: Wireless					https://doi.org/10.6073/pasta
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jrn.210437045.40	ongoing	2024	Anderson, John	7/30/13		d17864772
JIII.2 10+07 0+0.+0	Jornada Basin LTER: Wireless	2024	Anderson, com	7700710	3/1/24	417004772
	meteorological station at NPP T-TAYL					https://doi.org/10.6073/pasta
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jrn.210437044.41	ongoing	2024	Anderson, John	8/7/13	9/7/24	6d7d4c138
-	Jornada Basin LTER: Wireless					
	meteorological station at NPP T-EAST					https://doi.org/10.6073/pasta
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jrn.210437043.42		2024	Anderson, John	7/29/13	9/7/24	347935514
	Jornada Basin LTER: Wireless					httm://dei.eve/40.6073/n.eete
knb-lter-	meteorological station at NPP P-TOBO site: 1-hour summary data: 2013 -					https://doi.org/10.6073/pasta /61b9040828da469c23ba72
jrn.210437042.40	ongoing	2024	Anderson, John	5/4/14		4ceea8cc41
JIII.210407042.40	Jornada Basin LTER: Wireless	2027	7 tildereeli, deliii	0/4/14	OTTIZA	40000001
	meteorological station at NPP P-SMAL					https://doi.org/10.6073/pasta
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jrn.210437041.42	ongoing	2024	Anderson, John	3/14/17	9/7/24	05c30cfdf
	Jornada Basin LTER: Wireless					
	meteorological station at NPP P-COLL					https://doi.org/10.6073/pasta
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jrn.210437040.41	ongoing	2024	Anderson, John	7/26/13	9/7/24	324798561
	Jornada Basin LTER: Wireless meteorological station at NPP M-WELL					https://doi.org/10.6073/pasta
knb-lter-	site: 1-hour summary data: 2013 -					/08ed8ba9e3d4e64e35f3ca1
jrn.210437039.39	ongoing	2024	Anderson, John	8/27/13	9/7/24	05b0f5d49
<u>, </u>	Jornada Basin LTER: Wireless		, -	0,21,10	****	
	meteorological station at NPP M-RABB					https://doi.org/10.6073/pasta
knb-lter-	site: 1-hour summary data: 2013 -					/44a01f9bee594057f4903a6
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	Jornada Basin LTER: Wireless					
	meteorological station at NPP M-NORT					https://doi.org/10.6073/pasta
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	Jornada Basin LTER: Wireless		,	1		·
	meteorological station at NPP G-IBPE					https://doi.org/10.6073/pasta
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l	meteorological station at NPP C-GRAV					https://doi.org/10.6073/pasta
knb-lter- jrn.210437032.43	site: 1-hour summary data: 2013 -	2024	Anderson, John	0/46/42	0/7/24	/aad2a48f5402c7b1dc2800e 45f9f59c0
JIII.2 10437 032.43	ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	9/16/13	9/1/24	431913900
	meteorological station at NPP C-CALI					https://doi.org/10.6073/pasta
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	Jornada Basin LTER: Wireless					
	meteorological station at NPP T-WEST					https://doi.org/10.6073/pasta
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	Jornada Basin LTER: Wireless					https://doi.org/10.6072/pasta
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jrn.210437029.40	ongoing	2024	Anderson, John	8/7/13	9/7/24	5d9a747c1
JIII.2 10 407 020.40	Jornada Basin LTER: Wireless	2027	7 tridereeri, deriir	0/1/10	OTTIZ	000014701
	meteorological station at NPP T-EAST					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute summary data: 2013 -					/a356df2191c1ce7d6f32b29
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jrn.210437027.42	ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	5/4/14	9/7/24	b7019c6b
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jrn.210437024.41		2024	Anderson, John	8/27/13	8/25/24	867df2df7
JIII.2 10+07 02+.+1	Jornada Basin LTER: Wireless	2024	Anderson, com	0/2//10	0/20/24	007 412417
	meteorological station at NPP M-RABB					https://doi.org/10.6073/pasta
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	Jornada Basin LTER: Wireless					
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jrn.210437022.41	Jornada Basin LTER: Wireless	2024	Anderson, John	7/23/13	9/7/24	20bd79319
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	Jornada Basin LTER: Wireless					
l	meteorological station at NPP G-BASN					https://doi.org/10.6073/pasta
knb-lter-	site: 30-minute summary data: 2013 -	0004	Andonos: Isla	7/00/40	0/7/04	/21feb10367fb44bd1fda83b6
jrn.210437019.42	ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	7/26/13	9///24	68198c92
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	Jornada Basin LTER: Wireless					
	meteorological station at NPP C-CALI					https://doi.org/10.6073/pasta
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	Jornada Basin LTER: Wireless					
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	Jornada Basin LTER: Wireless					
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	Jornada Basin LTER: Wireless					
	meteorological station at NPP T-EAST					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air				0,-10.	/a2291276ddd42e9b927c12
jrn.210437013.40	temperature data: 2013 - ongoing	2024	Anderson, John	7/29/13	9/7/24	368ebaa27f
	Jornada Basin LTER: Wireless					
	meteorological station at NPP P-TOBO					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air	0004		5/4/44	0/05/04	/2872b9a487e3c909bc9cdc4
jrn.210437012.41	temperature data: 2013 - ongoing	2024	Anderson, John	5/4/14	8/25/24	2f536ec21
	Jornada Basin LTER: Wireless					L#//d-:/40 CO70/
lenh Itau	meteorological station at NPP P-SMAL					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air	2024	Andaraan laha	2/44/47	0/05/04	/e70b5feeb29c9b51d7ac0a2
jrn.210437011.43	temperature data: 2017 - ongoing Jornada Basin LTER: Wireless	2024	Anderson, John	3/14/17	8/23/24	16b17d203
						https://doi.org/10.6072/posts
knb-lter-	meteorological station at NPP P-COLL site: 5-minute summary wind and air					https://doi.org/10.6073/pasta /738b2a594180b4a02988f2b
jrn.210437010.41	temperature data: 2013 - ongoing	2024	Anderson, John	8/21/13	8/25/24	16748a272
JIII.2 10437 0 10.4 1	Jornada Basin LTER: Wireless	2024	Anderson, John	0/21/13	0/23/24	107408272
	meteorological station at NPP M-WELL					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air					/878ec05d6891b081177b45
jrn.210437009.40	temperature data: 2013 - ongoing	2024	Anderson, John	8/27/13	5/10/24	7194632029
JIII.2 10 101 000. 10	Jornada Basin LTER: Wireless		, and ordern, dermi	0/21/10	0/10/21	7.10.1002.02.0
	meteorological station at NPP M-RABB					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air					/fc4c4f89a94aba7a9c9ec5b4
	temperature data: 2013 - ongoing	2024	Anderson, John	8/30/15	5/10/24	32e9d388
	Jornada Basin LTER: Wireless		•			
	meteorological station at NPP M-NORT					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary air temperature					/3208a7ab085235b805d699
jrn.210437007.42	data: 2013 - ongoing	2024	Anderson, John	7/23/13	9/7/24	5da79e25d6
	Jornada Basin LTER: Wireless					
	meteorological station at NPP G-SUMM					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air					/1b5835322eb1bc66db1d9a
jrn.210437006.42	temperature data: 2013 - ongoing	2024	Anderson, John	7/24/13	8/25/24	1352c64bb8
	Jornada Basin LTER: Wireless					
	meteorological station at NPP G-IBPE					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air					/7ade81d78d828598046ac8
jrn.210437005.40	temperature data: 2013 - ongoing	2024	Anderson, John	8/6/13	8/25/24	708c2f0bae
	Jornada Basin LTER: Wireless					
	meteorological station at NPP G-BASN					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air					/b8aeb5099e54a820d118ad
jrn.210437004.43	temperature data: 2013 - ongoing	2024	Anderson, John	7/25/13	9/7/24	2fbce16c91
	Jornada Basin LTER: Wireless					
	meteorological station at NPP C-SAND					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air					/1129f3a3181a6913cacf687
jrn.210437003.43	temperature data: 2013 - ongoing	2024	Anderson, John	11/19/13	9/7/24	643b163fb
	Jornada Basin LTER: Wireless					
	meteorological station at NPP C-GRAV					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air			644644	0/05/0	/34500d0c66274a9cd987a3
jrn.210437002.43	temperature data: 2013 - ongoing	2024	Anderson, John	9/16/13	8/25/24	5ca8f4bec8

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	meteorological station at NPP C-CALI					https://doi.org/10.6073/pasta
knb-lter-	site: 5-minute summary wind and air					/e48043a1dff9b86f6255ed1b
jrn.210437001.41	temperature data: 2013 - ongoing	2024	Anderson, John	11/5/13	8/25/24	c7a2a63e
-	Annual precipitation and photo-derived		Peters, Debra			
	vegetation and litter cover (2013-2021)		C;Burruss,			
	used for analysis in the manuscript		Nathan			
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knb-lter-	scale Interactions and State Change		John;Heintzman,			/9d1a709f67c02f56189f2a59
jrn.210413003.2	Reversal in Drylands,Äù	2024	Lucas	1/1/13	12/31/21	7f4b0221
	Monthly precipitation data from a network					
	of standard gauges at the Jornada					
knb-lter-	Experimental Range (Jornada Basin		Thatcher,			https://doi.org/10.6073/pasta
jrn.210380001.74	LTER) in southern New Mexico, January		David;Bestelmey			/08d3c2f162d1eedf952b848
6	1916 - ongoing	2024	er, Brandon T	1/1/15	8/1/24	e1fb7c64a
	Total Annual Aboveground Net Primary		Bestelmeyer,			
	Productivity across grassland-shrubland		Brandon			https://doi.org/10.6073/pasta
knb-lter-	ecotones at 3 sites in the Jornada Basin,		T;Schooley,			/88a29965fb635be5a79a89b
jrn.210262005.11	2006-ongoing	2024	Robert	5/19/06	10/24/23	4e1416c00
	Annual Aboveground Net Primary		Bestelmeyer,			
	Productivity by plant functional groups		Brandon			https://doi.org/10.6073/pasta
knb-lter-	across grassland-shrubland ecotones at 3		T;Schooley,			/3fcf0fee94238b6f1c167363
jrn.210262004.95	sites in the Jornada Basin, 2006-ongoing	2024	Robert	5/19/06	10/24/23	6ed6e90f
			Bestelmeyer,			
	Spring and Fall plant cover across		Brandon			https://doi.org/10.6073/pasta
knb-lter-	grassland-shrubland ecotones at 3 sites		T;Schooley,			/13a6e606f3173f5b39cca50
	in the Jornada Basin, 2005-ongoing	2024	Robert	6/1/05	10/24/23	0ad65fb97
knb-lter-						https://doi.org/10.6073/pasta
jrn.210126001.13	Jornada Basin LTER Weather Station	0004		0/4/00	0/0/04	/a1fd79442c6ac4433a1844d
1	Daily summary climate data	2024	Anderson, John	3/1/83	9/8/24	f91888a41
			E;Webb,			
			Nick;Van Zee,			
			Justin;Courtright,			
			Ericha M;Billing,			
			Ben;Duniway,			
			Michael;Kachergi s, Emily;Moriasi,			
			Daniel;Morra,			
			Brian;Nafus,			
			Aleta			
			M;Newingham,			
	Optimizing sampling across methods		Beth A;Scott,			https://doi.org/10.6073/pasta
knb-lter-	improves the power of ecological		Drew A;Toledo,			/b8b8abc0471c826c755788c
jrn.200050001.1	monitoring data	2024	David	7/1/15	7/31/23	3f24a2c1b
j20000001.1	Gridded 1-hectare estimates of shrub	2027		., ,, ,,	1,51,20	0.2 .020 10
	community structure at the Jornada Basin					https://doi.org/10.6073/pasta
	LTER site derived from NAIP (2011) and		Roberts, Trevor			/49bec3ac2917e494c5de4b
knb-lter-jrn.103.1	LiDAR (2019) data	2023	H;Hanan, Niall P	1/1/11	12/31/19	19130e703b