SPRNCAUplands Working Group Meeting February 12, 2025

The SPRNCAAllotments Lease Renewal EAwas signed April 7, 2023 and the renewed leases with updated terms and conditions were issued July, 2023 (Babocomari, Brunckow Hill, and Lucky Hills) and September, 2023 (Three Brothers).

The purpose of this presentation is intended to share upland objectives of the SPRNCA allotments and data to determine if allotments are meeting objectives.

*Iink to ePlanning site with final EA and Decisions: https://eplanning.blm.gov/eplanning-ui/project/2013674/570

SPRNCA Allotments Objectives

Adaptive Management Objectives:

- Perennial Grass Foliar Cover and Bare Ground
- Tied to grazing management
- On the SPRNCAportion of the allotments

Desired Plant Community Objectives:

- Perennial Grass Foliar Cover and Shrub Cover
- Tied to vegetation management and restoration
- On SPRNCA and non-SPRNCA portions of allotments

Both assessed using Assessment, Inventory, and Monitoring (AIM)

Terrestrial AIM plot layout and methods

3 Transects (25 m)

Line-point intercept:

every 0.5 m

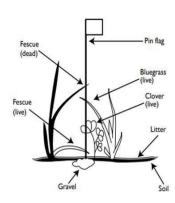
- -plant foliar cover
- -ground cover
- -plant height

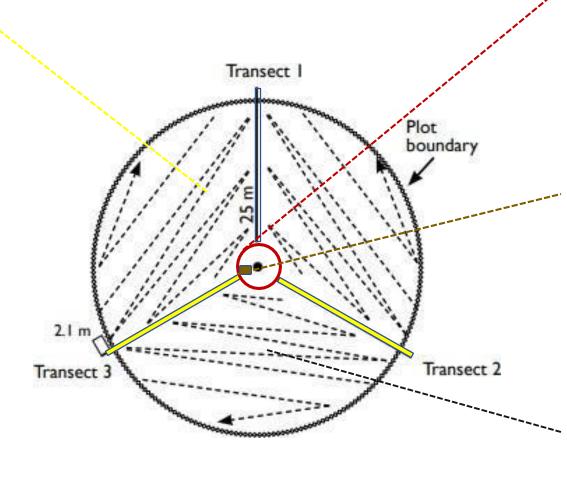
Canopy gap intercept:

measuring gaps in plant canopies larger than 20 cm

Soil Stability: 6 samples on each transect (18 total)

Photos





Plot center with 5m "trample zone"

Observation/Characterization:
Landscape position, slope, aspect, other observations

Soil pit – soil texture, color, effervescence, and rock content at different horizons for ecological site verification.

Species Inventory – list of all species within the plot boundary

Terrestrial AIM methods and indicators

AIM Method	Indicator-What does it tell you?
Line Point Intercept – along the transects	 Plant Community Composition – Tels you relative and absolute foliar cover of plants by species. Total plant foliar cover Ground Cover – %bare ground, litter, plant base, rock cover etc.
Plant Height – along the transects tallest herbaceous plant and tallest woody plant.	Vegetation Structure – Heights of the dominant woody and herbaceous plant species.
Species Inventory – throughout the entire plot	Plant diversity - List of plant species found within the plot
Canopy Gap – along the transects	Proportion of soil surface in large intercanopy gaps. Generally bad if there is a large proportion of large gaps.
Soil Stability – along transects	Ranked on a scale of 1-6 (6 being the most stable). Estimates how susceptible the soil surface is to erosion.

Babocomari

Table: Limy and Shallow Upland Objectives					
	2019	2021	2022	2023	2024
Limy Upland Objectives:					
KA GRZ-02 DPC Objective					
Perennial grass foliar cover of ≥10%	12	30.7	39.3	15.3	22.67
Bare ground <26.7%	26.7	10.7	3.3	8.67	12.67
Shrub cover <30%	39			42	39.3
KA Babo-05 DPC Objective					
Perennial grass foliar cover of ≥1%	0	0	Q	0	0.67
Bare ground <25.3%	25.3	24	14.7	24.67	20
Shrub Cover <30%	55			36	36
Challey Haland Objectives					
Shallow Upland Objectives:					
Babo-03					
Perennial grass foliar cover of ≥20%	18.1	56.7	56	39.3	23.3
Bare ground <19.3%	19.3	3.3	4	4.67	6.67
Shrub cover <10%	20			25.3	22
GRZ-05					
Perennial grass foliar cover of ≥20%	3.4	24.7	34.7	26.67	26
Bare ground <30%	30	3.3	1.3	24.67	2
Shrub cover <10%	31			40	37.3





^{*}See final decision documents on eplanning: https://eplanning.blm.gov/eplanning-ui/project/2013674/570

^{*}Link to public AIM data hub: https://gbp-blm-egis.hub.arcgis.com/pages/aim

Brunckow Hill

Table: Limy and Shallow Upland Objectives					
	2019	2021	2022	2023	2024
Limy Upland Objectives:					
BK-023					
Perennial grass foliar cover of ≥2%	2	5.3	7.3	0.7	1.3
Bare ground <31.3%	31.3	32	10.7	20	35.3
Shrub Foliar cover <30%	39			20	22.6
Shallow Upland Objectives:					
BK-01					
Perennial grass foliar cover of ≥20%	12.7	28.7	20	6.6	14
Bare ground <14%	14	5.3	0.7	3.3	13.3
Shrub foliar cover <10%	36			23.3	21.3



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Lucky Hills

Table: Limy Upland Objectives					
	2019	2021	2022	2023	2024
Limy Upland Objectives					
KA LH-042 Objective					
Perennial grass foliar cover of ≥24%	24	31.3	38.7	24	37.33
Bare ground <12.7%	12.7	30	4.7	12.7	18.67
Shrub foliar cover <30%	45			54	49.3



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Three Brothers

Table: Limy Upland Objectives					
	2019	2021	2022	2023	2024
Limy Upland Objectives:					
KA TB-01 Objective					
Perennial grass foliar cover of ≥11%	11	20.7	24	15.3	16.67
Bare gound <41.3%	41.3	32.7	10	30	36.67
Shrub foliar cover <30%	33			38	28.6
KA TB-081 Objective					
Perennial grass foliar cover of ≥8%	8.7	17.3	26	16	28.67
Bare ground <34%	34	21.3	6.7	18.67	24.67
Shrub foliar cover <30%	36			37	45.3
KA GRZ-04 Objective					
Perennial grass foliar cover of ≥2%	2	8	3.3	0.67	2.67
Bare ground <25.3%	25.3	6.7	1.3	14	19.33
Shrub foliar cover <30%	49			70	47.3





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Ungrazed

Table: Ungrazed					
Ungrazed	20	19	2021	2023	2024
UNGZ-02 (Limy Upland)					
Perennial grass foliar cover of ≥10%		0	25.3	21.3	12
Bare ground	10	0.6	16	4	19.3
Shrub cover <30%		62	50	56.6	59.3
UNGZ-08 (Limy Upland)					
Perennial grass foliar cover of ≥1%		0	0.6	0	0.6
Bare ground	28	3.6	20	16	31.3
Shrub cover <30%	35	5.3	40.6	42.6	34.6
Shallow Upland_1					
Perennial grass foliar cover of ≥20%	NA		31.3	O	18
Bare ground	NA		2	4	12
Shrub cover <10%	NA		16	19.3	26
Shallow Upland_2					
Perennial grass foliar cover of ≥20%	NA	NA		8.6	6
Bare ground	NA	NA		10.6	
Shrub cover <10%	NA	NA		22	19.3



Shallow Upland 1 9/11/2020

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^{*}Objectives are specific to the site and that none were developed for the ungrazed reference sites