

SPRNCA Allotments Objectives

Adaptive Management Objectives:

- Perennial Grass Foliar Cover and Bare Ground
- Tied to grazing management
- On the SPRNCA portion 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)

*link to ePlanning site with final EA, Decisions, and Land Health Evaluations – provide context for how objectives were developed: https://eplanning.blm.gov/eplanning-ui/project/2013674/570

Terrestrial AIM plot layout and methods

3 Transects (25 m)

Line-point intercept:

every 0.5 m

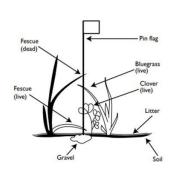
- -plant foliar cover
- -ground cover
- -plant height

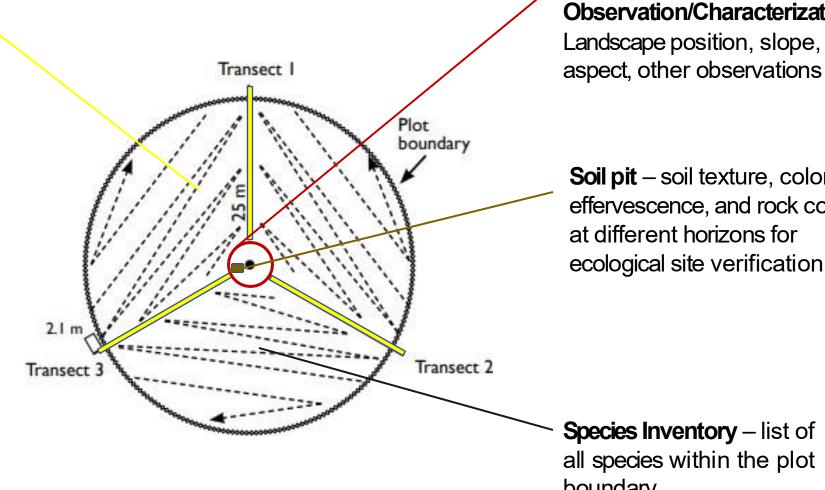
Canopy gap intercept:

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,

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 – Tells 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

Babocomari Objectives Table				
	2019	2021	2022	2023
Limy Upland Objectives				
Key Area GRZ-02 DPC Objectives				
Perennial grass foliar cover of ≥10%	12	30.7	39.3	15.3
Bare ground <26.7%	26.7	10.7	3.3	8.7
Shrub foliar cover <30%	39			42
Key Area Babo-05 DPC Objectives				
Perennial grass foliar cover of ≥1%	0	0	0	0
Bare ground <25.3%	25.3	24	14.7	24.7
Shrub foliar cover <30%	55			36
Shallow Upland Objectives				
Key Area Babo-03				
Perennial grass foliar cover of ≥20%	18.1	56.7	56	39.3
Bare ground <19.3%	19.3	3.3	4	4.7
Shrub foliar cover <10%	20			25
Key Area GRZ-05				
Perennial grass foliar cover of ≥20%	3.4	24.7	34.7	26.7
Bare ground <30%	30	3.3	1.3	24.7
Shrub foliar cover <10%	31			40

Green = meeting adaptive management objective, Red = not meeting adaptive management objective, and Orange = not meeting desired plant community objective.





^{*}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

Brunckow Hill Objectives				
-	2019	2021	2022	2023
Limy Upland Objectives				
Key Area BK-023				
Perennial grass foliar cover of ≥2%	2	5.3	7.3	0.7
Bare ground <31.3%	31.3	32	10.7	20
Shrub foliar cover <30%	39			20
Shallow Upland Objectives				
Key Area BK-01				
Perennial grass foliar cover of ≥20%	12.7	28.7	20	6.6
Bare ground <14%	14	5.3	0.7	3.3
Shrub foliar cover <10%	36			23.3



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Lucky Hills

Lucky Hills Objectives				
	2019	2021	2022	2023
Limy Upland Objectives				
Key Area LH-042 Objective				
Perennial grass foliar cover of ≥24%	24	31.3	38.7	24
Bare ground <12.7%	12.7	30	4.7	12.7
Shrub foliar cover <30%	45			54

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Three Brothers

Three Brothers Objectives				
	2019	2021	2022	2023
Limy Upland Objectives				
Key Area TB-01 Objectives				
Perennial grass foliar cover of ≥11%	11	20.7	24	15.3
Bare ground <41.3%	41.3	32.7	10	30
Shrub foliar cover <30%	33			38
Key Area TB-081 Objectives				
Perennial grass foliar cover of ≥8%	8.7	17.3	26	16
Bare ground <34%	34	21.3	6.7	18.7
Shrub foliar cover <30%	36			37
Key Area GRZ-04 Objectives				
Perennial grass foliar cover of ≥2%	2	8	3.3	0.7
Bare ground <25.3%	25.3	6.7	1.3	14
Shrub foliar cover <30%	49			70

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