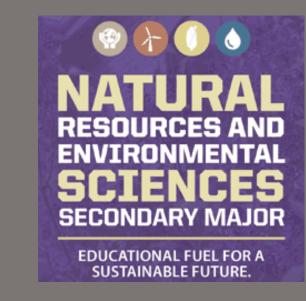
THE OBSCURE VALUE OF NATURE WITHIN A CAMPUS SETTING:

Unveiling Intrinsic and Extrinsic Stakeholder Values Concerning Native Flora Plots

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Introduction

- During this project, the team worked to bridge previous NRES research endeavors focused on the tallgrass prairie ecosystem through a differentiating perspective: to research and identify various scopes of **value** associated with native flora plots within a campus setting (i.e., Kansas State University).
- This aids in creating a comprehensive and complete body
 of research on natural grasslands in a college setting. Our
 research focuses on relating the impact of tallgrass plots and
 native flora on people through an explanatory case study.
- Throughout our study we focused on the connection between human and nature through five separate lenses, natural, physical, mental, emotional, and social.
- Evaluating the individual lens provided a unique view on how an individual connects to nature and the outcomes that occur in response to each unique human connection.

Research Question

 How do staff, faculty, and students value native flora plots located on the Kansas State University campus?

Methods

- Throughout this qualitative research process, an explanatory case study framework was used.
- Semi-structured Interviews were conducted with participants chosen through purposeful sampling, including academic faculty, maintenance staff, and students.
- Data was then analysed using deductive coding, sourcing frequencies of common words used in interviews
- Trustworthiness was ensured utilizing Krefting (1991) Rigor in Qualitative Research outline.

Figure 1: Trustworthiness Criteria

Neutrality and Confirmability		Truth Value and Credibility
Bias checking Triangulation Researcher memos Member Checking	TRUSTWORTHINESS	Bias checking Non-influential and neutral state protocols used
Consistency and Dependability		Applicability and Transferability

Results

Figure 2: Demographics of Participants

Demographics		Data (Percentage, Range)
Mean Age:		38.3 (21-53)
thnicity:	Caucasian	100% (6)
i ender:	Male	50% (3)
	Female	50% (3)

- Natural flora tended to be preferable over lawns.
- Ecosystem services
 were important to note
 on many interviews,
 mainly in controlling
 flooding within the
 Manhattan area.
- Maintenance of these natural plots tended to be a concern.
- Air and water quality were mentioned by multiple participants.
- Native plots are thought of being very calming, soothing, and relaxing.

Figure 8: K-state Meadow



Figures 3-7: Data Analysis

Initial Code	Subcode	Frequency
Natural:		
	Plant(s)	65
	Native(s)	61
	Meadow	31
	(Eco)system	20
	Spring	10

Initial Code	Subcode	Frequency
Social:		
	People	16
	Helping/Assisted	7
	Solitude/Alone	7
	Students	7
	Family	4

Initial Code	Subcode	Frequency
Emotional:		
	Time	12
	Enjoy(ing)	8
	Concern of Pesticides	6
	Relaxation	5
	Peaceful	4

Subcode	Frequency
Walk(ing)	69
Maintenance	17
(Physical) Ability	13
Function	8
Run(ing)	5
	Walk(ing) Maintenance (Physical) Ability Function

Initial Code	Subcode	Frequency	
Mental:		835576	
	Think	34	
	Value	26	
	Feel(s)	25	
	Experience	13	
	Learning Experience	7	

Figure 9: K-state Meadow (Kingery-Page, 2020)



Discussion

After analysing the interview data, a handful of common themes emerged:

- Existing native plots and how they already impact the individuals.
- Ecosystem services, the importance of stormwater management, air, and water quality.
- Physical activity that is promoted by including these spaces on a college campus.
- Mental benefits from these spaces such as solitude, calm, relaxation, and recharge.
- Associated maintenance needs and costs.

Conclusion

- From the research, certain themes and topics were recurring throughout direct quotations from interviewees.
- Ecosystem services- specifically those involved with the regulating and cultural categories were present throughout.
- Interviewees each expressed different valuations of what native flora plots currently offer/could potentially offer to daily campus and personal use.
- One of the interviewees expressed a concern for implementation and maintenance and native flora plots, which is an important discussion and worth further exploration in future research.

References

- Kingery-Page, K. (2020). Kansas State University. The Meadow. Retrieved December 9, 2021, from https://blogs.k-state.edu/meadow/.
- Krefting, L. (1991). Rigor in qualitative research: The assessment of trust-worthiness. The American Journal of Occupational Therapy, 45(3), 214–222. https://doi.org/10.5014/ajot.45.3.214