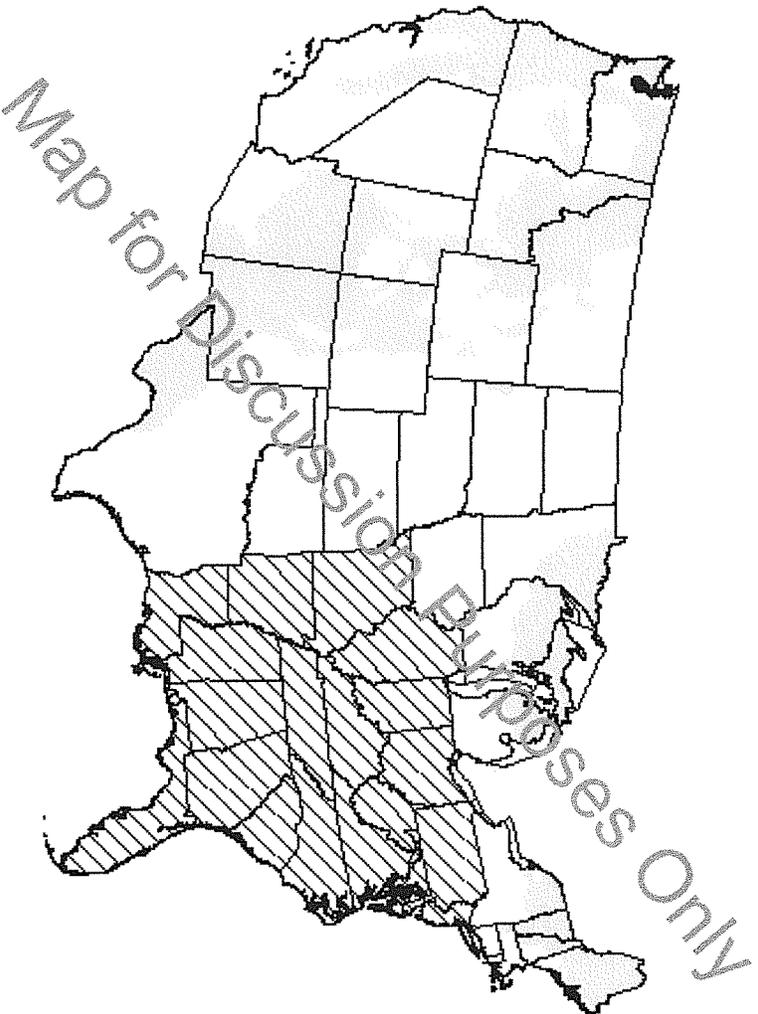


Some Questions



- Where can wolves exist?
- Where *should* wolves exist? What does the ESA require? What does the public want? What can the public tolerate?
- Which areas have sustainable populations at the current time?
- Which populations need active recovery and which simply need continued protection?

Gray shading: potential habitat based on synthesis of existing spatial models.
Hatched area: spatial habitat models are not yet available.



Group measurable attributes

1. Legal defensibility groups
 - Qualitative scale based on sense of the probability of prevailing chance of being litigated
 - o High (5) to Low (1)
 - Public acceptance group
 - clarity of public and time/area regulated
 - Leichardt scale – 1-5 scale. Subjective expert ranking
 - o Very high acceptance (5),
 - o High acceptance (4)
 - o Acceptance (3)
 - o Some acceptance (2)
 - o Very low acceptance (1 = very active opposition – e.g. people bringing notices, people ringing congress etc) ...
3. Wolf Conservation
 - Units designated to maintain/maximize genetic diversity of genus across units
 - Qualitative 1-3 ranking
 - o 3 = high probability of contributing to wolf conservation
 - o 2 = Med probability of contributing to wolf conservation
 - o 1 = Low probability of contributing to wolf conservation
4. Efficiency
 - Used a qualitative scale,
 - o 1-3 (Low to High)
 - Based on 4 components
 - o Efficiency
 - o Expediency
 - o Enduring
 - o Potential for petitions
 - Used modified Delphi approach

Consequence Table

Management Alternative		Mean Response			
#		Legal Defense	Public Acceptance	Wolf Conserv	Efficiency
		1-5	1-5	1-3	1-3
		max	max	max	max
1	Species only	4.0	1.0	1.0	1.0
2	Subspecies only	5.0	2.1	2.5	2.0
3	Small DPSS	2.0	3.3	3.0	2.5
4	Large DPSS	3.0	1.6	2.0	1.5
5	Hybrid	2.0	2.1	2.75	2.0

Management Alternative		Normalized Responses					Weighted Score (avg)
#		Legal Defense	Public Acceptance	Wolf Conserv	Efficiency		
1	Species only	0.667	0.000	0.000	0.000	0.189	
2	Subspecies only	1.000	0.478	0.750	0.667	0.736	
3	Small DPSS	0.000	1.000	1.000	1.000	0.717	
4	Large DPSS	0.333	0.261	0.500	0.333	0.361	
5	Hybrid	0.000	0.478	0.875	0.667	0.488	

Normalized scale: Worst Case

2	1	1	1	1
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Normalized scale: Best Case

5	3.3	3	3	2.5
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Weight (avg)

0.283	0.259	0.281	0.178	
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Weight (alt 1)

0.357	0.179	0.179	0.286
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Weight (alt 2)

0.286	0.357	0.214	0.143
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Weight (alt 3)

0.100	0.300	0.400	0.200
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	Weighted Score		
	Alt 1	Alt 2	Alt 3
	0.238	0.190	0.067
	0.767	0.712	0.677
	0.643	0.714	0.900
	0.350	0.343	0.378
	0.432	0.454	0.627

Swing Weights

Alt	Objective					Score
	Legal	Public	Cons	Efficiency Rank	Rank	
baseline	2	1	1	1	5	0
A	5	1		1	1	
B	2	3.3		1	1	
C	2	1		3	1	
D	2	1		1	2.5	
	1-5	1-5	1-3	1-3		

Decision Maker	Scores	Weights				1	2	3	4
		1	2	3	4				
R1	60	80	100	40	0.214	0.286	0.357	0.143	
R2	95	75	100	45	0.302	0.238	0.317	0.143	
R3	100	60	80	40	0.357	0.214	0.286	0.143	
R4	50	90	100	70	0.161	0.290	0.323	0.226	
R5	100	50	50	80	0.357	0.179	0.179	0.286	
R6	70	60	100	75	0.230	0.197	0.328	0.246	
R9	65	70	100	30	0.245	0.264	0.377	0.113	
WA	100	70	60	30	0.385	0.269	0.231	0.115	
UT	80	100	30	70	0.286	0.357	0.107	0.250	
WY	100	95	95	30	0.313	0.297	0.297	0.094	
AZ	100	79	80	25	0.352	0.278	0.282	0.088	
NM	70	100	75	80	0.215	0.308	0.231	0.246	
ND	80	100	60	40	0.286	0.357	0.214	0.143	
WI	85	90	100	50	0.262	0.277	0.308	0.154	
MN	90	50	100	30	0.333	0.185	0.370	0.111	
MI	100	50	70	80	0.333	0.167	0.233	0.267	
NY	100	80	95	75	0.286	0.229	0.271	0.214	
VT	25	75	100	50	0.100	0.300	0.400	0.200	
NH	100	75	85	50	0.323	0.242	0.274	0.161	
ME	100	75	70	65	0.323	0.242	0.226	0.210	
					0.283	0.259	0.281	0.178	