







































Baseline Issues

- Precise relocation of quadrats
- Estimating vegetation cover





Baseline IssuesWhat is a damaged tree?How far do you look?















Discloy	1ª GREEN Plant	DISTANCE (N) LONG						SITE REASSESSMENT		
			human	Site #_	Site # 1016-14_ Date:9-3-05					
		UNIKAMPLED	TRANPLED	UNIKAMIPUED	Arim	1ª plant	Spp	Camp	commentes	
N	9.67	9:67	1		0	8.7	Curek	1.5	somewhat avoitionly 🗶	
NNE_	12.33	12.33	1		22.5	7.4	Carts	12.3	in user trail	
NE	7.12	8.70	1		45	4.2	Trirep	14.0	major stock area and edge	
ENE	10.65	7.45	1		67.5	3.55	motin	15.1	Summartials. @ user trail. Transit & to there, this dress	
E	8.22	8.22	\bigvee		90	4.8	carlx	12.4	X usy trail	
ESE	7.80	7.80	1	77	112.5	6.6	CARX	12.4	have suggests beyond edge	
SE	7.52	7.52	/		135	8.05	CAREX	9.0		
SSE	7.20	7.75	V		157.5	4:3	CNUK	13.2		
S	5.65	6.30	1		180	5.3	carec	13.3	Includes transition that put .	
SSW	4.80	5.28	1	1	202.5	4.4	Carth	14.0	AL log. Arb edge.	
SW	5.54	5.54	1		225	5.9	pofi	12.1	At log. Ver bright i had the	
WSW	6.85	6.85	V		247.5	6.6	Expe	16.8	at log	
W	9.78	9.78	. Ve		270	8.9	Eipe	13.4	at lay. Recent stack beyond	
WNW	9.85	10.85	1		292.5	9.2	Vermiles.	12.0	R of	
NW	9.70	59.9	\checkmark	E.	315	6.9	Expe	14.6	in our frail	
NNW	952	9.52		-	337.5	10-1	Vasc	14.5	obvious else	
			NUR	1 - 1 -						
	6.0'	a.31		and the second						







Monitoring Issues

• Even if you do find the control...





















Lessons about monitoring

- Phenology matters
- Perennials vs. annuals?
- Quadrats are the way to go for plants
 - Whose "north" is "north"?
 - Spikes solve this problem

Lessons about monitoring

• This approach is not best for tracking deterioration on highly impacted sites

- E.g., Long Lake
 - 1979 vegetation = 0.2%
 - 1984 vegetation = 1.0%
 - 2005 vegetation = 0.6%
- Measures occur within original site boundary; changes outside are not tracked
- Growth of a little veg at center point can totally change measurements

Eagle Cap:

- Mean mineral soil increase over controls:
 - 1979: 24%
 - 1984: 42%
 - 1990: 51%
- Mean vegetation loss on camps:
 - 1979: 87%
 - 1984: 85%
 - 1990: 81%
- Conclude: vegetation is stable, soil deteriorates

