Determination of Public Land (Rangeland) Health for 65010 MITCHELL DAIRY

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate local indicators were completed for this allotment. Based on these assessments, it is my determination that public land within Mitchell Dairy, allotment #65010 meets (1) Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard will not be addressed.

/s/ Eddie Bateson	8/8/2006
Field Manager	Date

Standards of Public Land Health
Evaluation of 65010 MITCHELL DAIRY Allotment
[10/15/2005]

The Roswell Field Office conducted rangeland health assessments at two (2) study sites within the Mitchell Dairy allotment #65010. These assessments evaluated Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within each study site vicinity. Existing monitoring data was incorporated into and in support of these field assessments. A summary of each assessment is attached and shown in the following table.

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65010-NORTH 3-WELLS-D032	X			X			N/A		
65010-SOUTH 3-WELLS-D033	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on Mitchell Dairy allotment #65010. Ten (10) of these assessed soil site stability, 11 hydrologic function and 13 biotic integrity. These qualitative assessments in conjunction with previous data collected on two study locations within this allotment were utilized to make rangeland health determinations. This allotment is a "M" (maintain) category.

South and North 3-Wells Pastures both are CP-2 Deep Sand ecological sites on (RPD) Roswell-Jalmar fine sand, hilly occurring on high terraces in eastern parts of area surveyed. Each site evaluated is 1,239 acres/501 hectares in size. Slope is 0 to 25 percent with elevation between 3,900ft/1,182m and 4,100 ft/1,242 m. Roswell and Jalmar soil is on hummocky sand dunes and in depressional/interdunal areas respectively. Roswell and Jalmar soil formed in eolian and eolian/alluvial deposits respectively. Both are deep and excessively drained with an effective rooting depth of 60 in/152 cm. No livestock were utilizing these pastures at assessment. South 3-Wells Pasture rated most indicators None to Slight and Slight to Moderate. These ratings indicated normal range of variability for a majority of attributes. Those indicators with Moderate departure were annual production and wildlife/special status species habitat. Current estimate for annual production was 500 to 550 lbs/ac or kg/ha. This estimate was slightly less than long-term average and approximately 1/3 of ESD parameters. Litter was up from previous measurements with an estimate of 60-70 percent. Shinnery oak (Quercus havardii) to grass ratio was 50:50. A portion of habitat was in less than favorable condition, as lesser prairie chicken

(Tympanuchus pallidicinctus) nesting potential indicated a shortage of large clumps of tall grass. Sand bluestem (Andropogon hallii) production was down with sand sage (Artemesia filifolia) increasing. Little bluestem (Schizachyrium scoparium), dropseed (Sporobolus spp.), blue grama (Bouteloua gracilis) and sandbur (Cenchrus spp.) were some grasses observed on site.

North 3-Wells Pasture indicates very slight departure from ecological or reference areas. Good overall nesting cover for LPC was observed with all indicators falling well within normal range of variability. Excellent large patches of sand bluestem for potential nesting cover was the norm. Shinnery oak to grass ratio is adequate and in proportions condusive for LPC nesting cover.

In the professional opinion of Assessment Team, public land within Mitchell Dairy, allotment #65010 meets Upland and Biotic standards. There are no Riparian issues present, therefore this standard was not addressed. See site notes and recommendations for further information regarding evaluations on this allotment.

Recommendations: Current management should continue for this allotment. North 3-Wells Pasture supports potential LPC habitat for nesting and shows overall good cover. Conservative livestock utilization levels should continue.

South 3-Wells Pasture should be evaluated to assure that tall grass species will return and provide adequate cover for LPC. Recent dry conditions have impacted most areas and this particular pasture must be evaluated perhaps on a more regular interval. However the pasture remains in good ecological condition with room for improvement.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65010-NORTH 3-WELLS-D032			
Legal Land Desc	NWSW 23 0060S 0300E Meridian 23	Acreage	1239
Ecosite	070BY063NM DEEP SAND CP-2	Photo Taken	Y
Watershed	13060003210 RAILROAD MOUNTAIN		
Observers	ARTHUN/MOE	Observation Date	01/04/2006
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	RPD	Soil Taxon Name	ROSWELL
Texture Class	NM644 FS	Soil Phase	ROSWELL-JALMAR
Texture Modifier	NM644 FINE SANDS,HILLY		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	19.55	NOAA Growing Season Precipitation	15.86
NOAA Avg Annual Precipitation	15.73	NOAA Avg Growing Season Precipitation	13.34
Disturbances and Animal Use:	No livestock or evidence were observed during assessment.		

Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes				X	
Comments:						

S H	Bare Ground				X	
Comments:	Current estimate is 40%					
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence				X	
Comments:						
H B	Litter Amount					X
Comments:	Current estimate is 65%.					
B	Annual Production				X	
Comments:	700 lbs/ac or kg/ha is the current estimate.					
B	Invasive Plants					X
Comments:						
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	

Comments:	Physical crust observed.					
B	Wildlife Habitat					X
Comments:						
B	Wildlife Populations					X
Comments:	good deer and pronghorn					
B	Special Status Species Habitat					X
Comments:	excellent LPC nesting cover					
B	Special Status Species Populations					X
Comments:	excellent pops. of LPC					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	6	4
H	Hydrologic	0	0	0	7	4
B	Biotic	0	0	0	5	8

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11

Biotic		0	0	13
Site Notes: Excellent large patches of sand bluestem for potential LPC nesting cover- good overall cover. The overall composition of grasses and shrubs is good on this site. No livestock were observed.				

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65010-SOUTH 3-WELLS-D033			
Legal Land Desc	SESW 27 0060S 0300E Meridian 23	Acreage	1239
Ecosite	070BY063NM DEEP SAND CP-2	Photo Taken	Y
Watershed	13060003210 RAILROAD MOUNTAIN		
Observers	ARTHUN/MOE	Observation Date	01/04/2006
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	RPD	Soil Taxon Name	ROSWELL
Texture Class	NM644 FS	Soil Phase	ROSWELL-JALMAR
Texture Modifier	NM644 FINE SANDS,HILLY		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	19.55	NOAA Growing Season Precipitation	15.86
NOAA Avg Annual Precipitation	15.73	NOAA Avg Growing Season Precipitation	13.34
Disturbances and Animal Use:	No livestock observed at time of evaluation.		

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes				X	
Comments:						

S H	Bare Ground				X	
Comments:	Current estimate is 30%.					
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:	Only minor changes exist.					
B	Plant Mortality/Decadence				X	
Comments:						
H B	Litter Amount					X
Comments:	Current estimate is 60%.					
B	Annual Production			X		
Comments:	Current estimate is 500-550 lbs/ac or kg/ha.					
B	Invasive Plants				X	
Comments:	Snakeweed less than scattered.					
B	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	

Comments:	Crust in dune- increase in O.M.- sbable & physical					
B	Wildlife Habitat				X	
Comments:						
B	Wildlife Populations					X
Comments:	good deer and pronghorn					
B	Special Status Species Habitat				X	
Comments:	grass for nesting present, but clumps are small					
B	Special Status Species Populations					X
Comments:	excellent pop. of LPC					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	7	3
H	Hydrologic	0	0	0	7	4
B	Biotic	0	0	1	8	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11

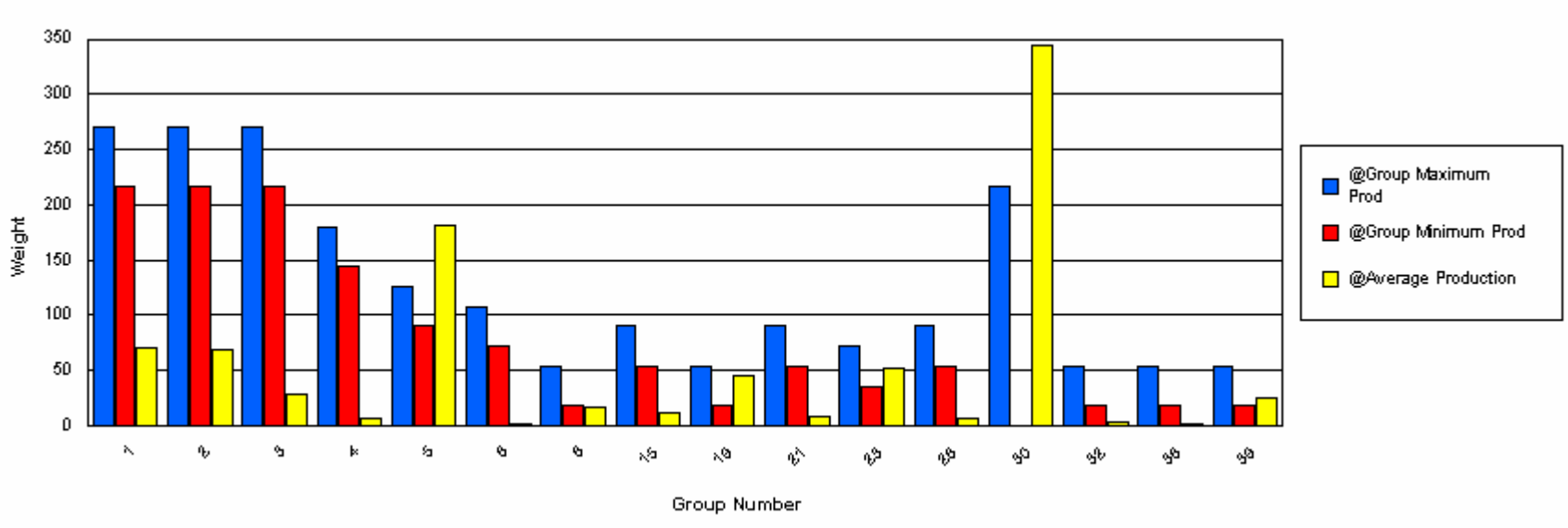
Biotic		0	1	12
Site Notes: LPC-shortage of large clumps of tall enough grass for nesting cover; very little sand bluestem. Ratio of shinnery/grass is 50:50. No livestock observed.				

Functional / Structural Groups

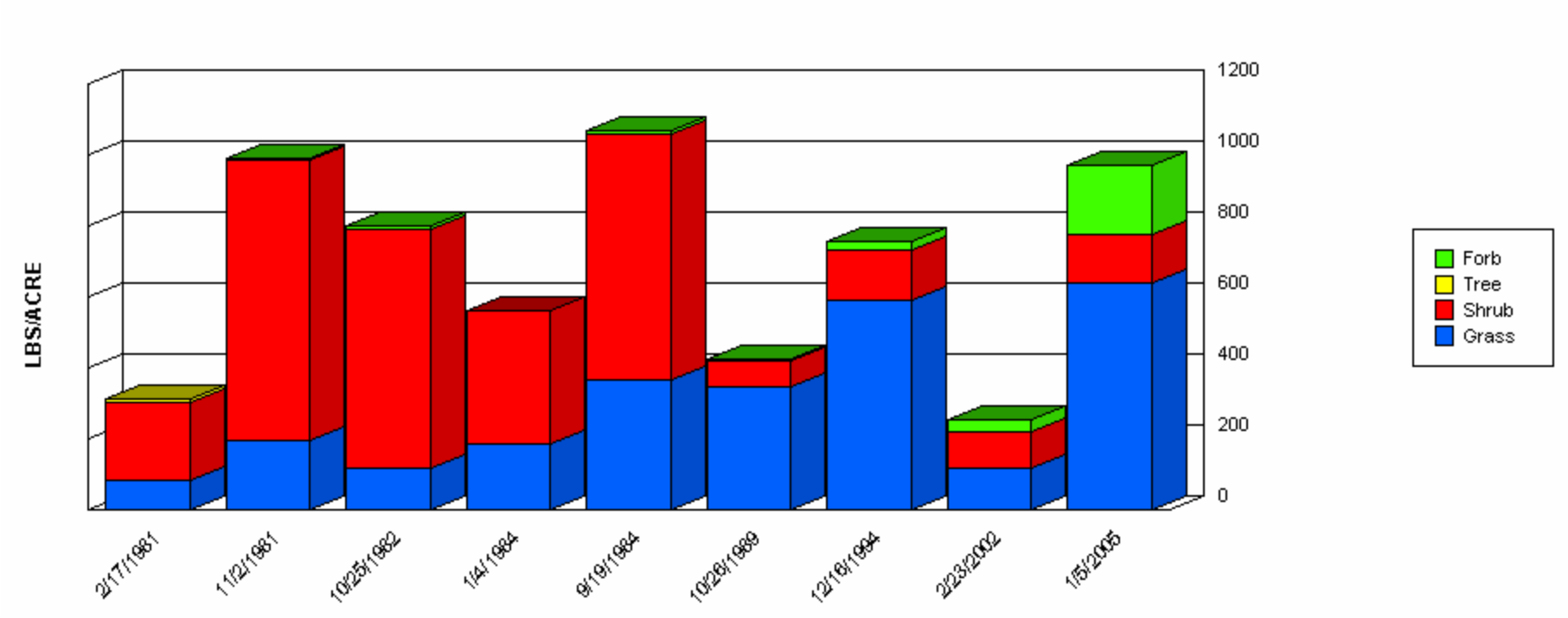
Report Parameters	
SITE NAME LIKE	65010-NORTH 3-WELLS-D032
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2005
MIN LBS TO GRAPH	1
SELECTED ECOSITE	070BY063NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	ANHA	216	270	5.00	201.88	70.03	71.47
2	Grass	SCSC	216	270	11.00	131.00	68.21	34.09
3	Grass	SPCO4	216	270	0.00	32.12	11.18	12.37
3	Grass	SPCR	216	270	0.00	44.87	14.39	13.92
3	Grass	SPFL2	216	270	1.00	6.00	3.50	2.50
4	Grass	BOHI2	144	180	2.92	8.00	6.22	1.95
5	Grass	ARIST	90	126	0.00	189.00	66.93	61.66
5	Grass	ARPU9	90	126	32.11	195.70	113.90	81.80
6	Grass	PAST6	72	108	0.00	3.33	1.25	1.26
8	Grass	DICOC	18	54	2.53	37.00	16.21	11.63
9	Grass	MUSQ	0	36	0.00	2.67	0.89	1.26
15	Grass	EROX	54	90	0.00	45.00	11.08	15.34
18	Grass	CAREX	0	18	0.00	0.80	0.27	0.38
19	Grass	SPGI	18	54	9.00	116.40	45.37	50.23
21	Forb	ERIOG	54	90	0.00	16.91	7.83	6.42
23	Forb	HEAN3	36	72	0.53	143.71	52.90	64.46
26	Forb	AAFF	54	90	1.00	24.00	6.45	8.83
26	Forb	EUPHO	54	90	0.00	0.16	0.05	0.08
26	Forb	IPOMO	54	90	0.00	0.90	0.30	0.42
26	Forb	LATHY	54	90	0.00	1.44	0.48	0.68
27	Forb	HYFL	18	54	0.00	0.17	0.06	0.08
27	Forb	LESQU	18	54	0.00	0.33	0.11	0.15
27	Forb	PENST	18	54	0.00	0.18	0.06	0.08
30	Shrub	QUHA3	0	216	67.98	763.28	343.80	269.29
32	Shrub	GUSA2	18	54	1.32	6.00	3.61	1.63
38	Shrub	YUCCA	18	54	0.00	4.00	2.00	2.00

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
39	Shrub	MACHA	18	54	0.00	2.70	0.90	1.27
39	Shrub	OPMA	18	54	0.00	26.67	13.33	13.33
39	Shrub	OPUNT	18	54	0.00	30.00	10.44	11.08



Production Lbs/Acre Trends

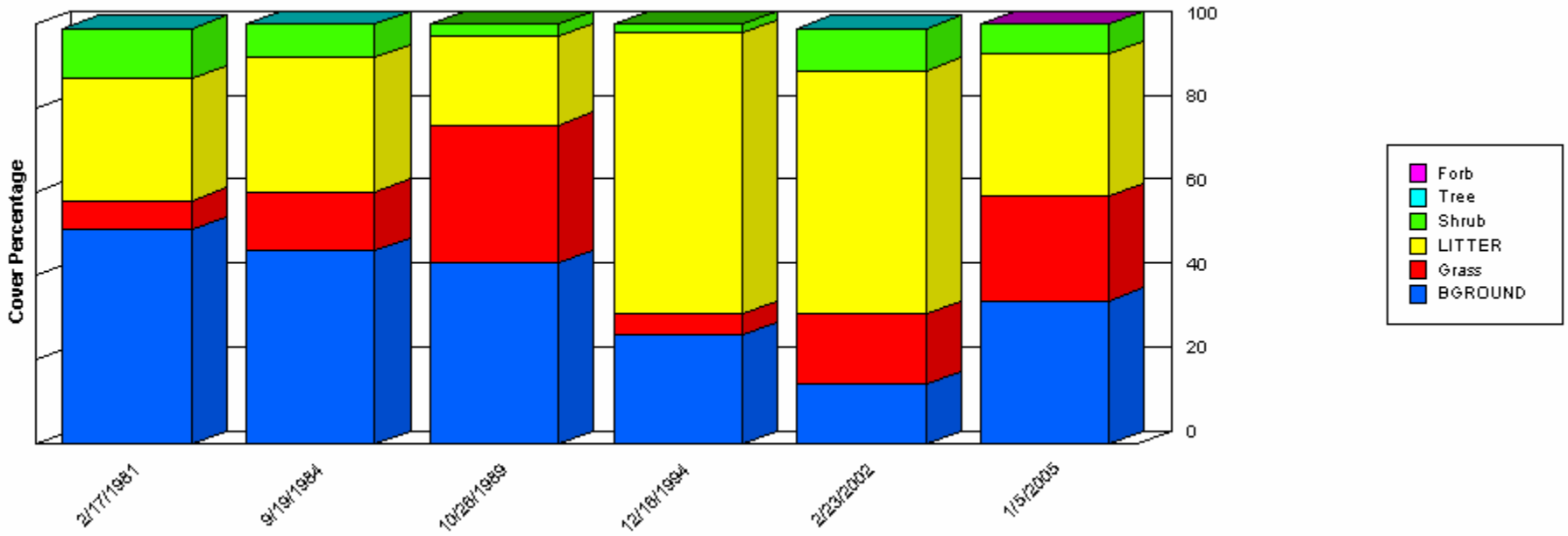


	2/17/1981	11/2/1981	10/25/1982	1/4/1984	9/19/1984	10/26/1989	12/16/1994	2/23/2002	1/5/2005
Forb	**0.00**	**1.74**	**10.40**	**0.00**	**8.97**	**1.00**	**24.00**	**35.10**	**196.31**
Grass	**86.00**	**195.02**	**121.30**	**184.96**	**367.25**	**347.00**	**590.00**	**121.02**	**638.68**
Shrub	**220.00**	**793.28**	**669.24**	**377.40**	**692.82**	**76.00**	**145.00**	**101.01**	**138.72**
Tree	**10.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**316.00**	**990.04**	**800.94**	**562.36**	**1,069.04**	**424.00**	**759.00**	**257.13**	**973.71**

Report Parameters

SITE NAME LIKE	65010-NORTH 3-WELLS-D032
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2005

Ground Cover Trends



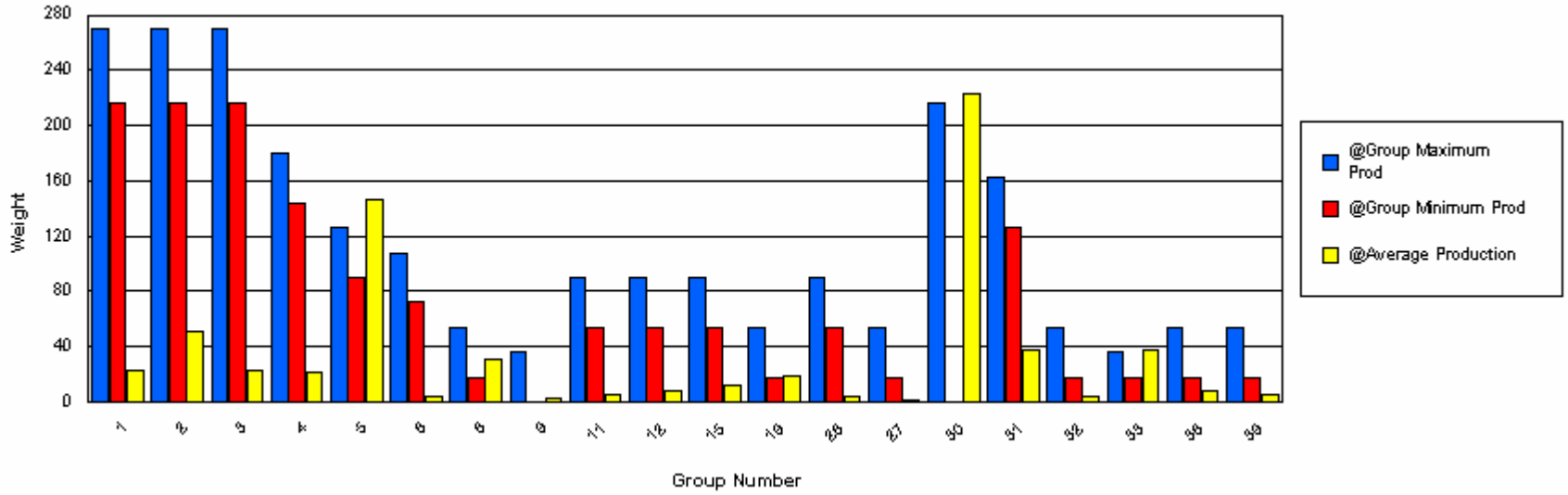
	2/17/1981	9/19/1984	10/26/1989	12/16/1994	2/23/2002	1/5/2005
BGROUND	51.00	46.00	43.00	26.00	14.00	34.00
Forb	0.00	0.00	0.00	0.00	0.00	0.00
Grass	7.00	14.00	33.00	5.00	17.00	25.00
LITTER	29.00	32.00	21.00	67.00	58.00	34.00
Shrub	12.00	8.00	3.00	2.00	10.00	7.00
Tree	0.00	0.00	0.00	0.00	0.00	0.00
Total	99.00	100.00	100.00	100.00	99.00	100.00

Functional / Structural Groups

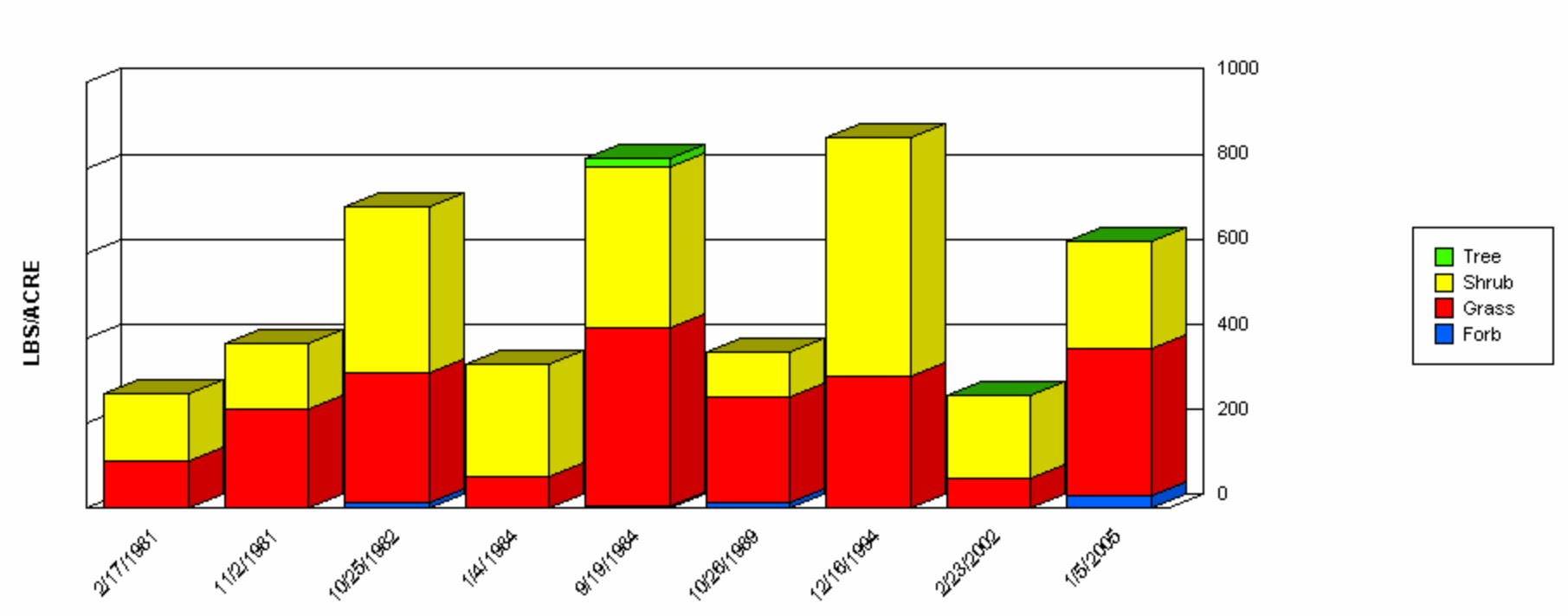
Report Parameters	
SITE NAME LIKE	65010-SOUTH 3-WELLS-D033
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2005
MIN LBS TO GRAPH	1
SELECTED ECOSITE	070BY063NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	ANHA	216	270	5.00	64.20	23.40	23.76
2	Grass	SCSC	216	270	9.24	128.96	51.20	37.21
3	Grass	SPCO4	216	270	0.00	11.66	3.42	4.83
3	Grass	SPCR	216	270	0.00	30.60	11.08	9.11
3	Grass	SPFL2	216	270	3.00	11.33	7.78	3.51
4	Grass	BOHI2	144	180	5.00	51.00	22.09	16.87
5	Grass	ARDI5	90	126	0.00	3.44	1.72	1.72
5	Grass	ARIST	90	126	0.00	201.28	68.74	60.88
5	Grass	ARPU9	90	126	12.04	139.97	76.01	63.97
6	Grass	PAST6	72	108	0.00	13.00	4.33	4.64
8	Grass	DICOC	18	54	1.90	72.68	30.30	25.16
9	Grass	CEPA7	0	36	0.00	1.31	0.44	0.62
9	Grass	MUSQ	0	36	0.00	5.07	1.69	2.39
11	Grass	BOCU	54	90	1.29	19.00	5.92	6.02
12	Grass	BOER4	54	90	1.13	13.68	7.41	6.28
15	Grass	EROX	54	90	0.00	45.00	12.11	15.99
19	Grass	SPGI	18	54	2.00	29.48	18.29	11.79
21	Forb	ERIOG	54	90	0.00	1.43	0.88	0.56
26	Forb	AAFF	54	90	0.00	13.00	4.08	4.68
26	Forb	HELIA	54	90	0.00	0.80	0.27	0.38
27	Forb	ERIGE2	18	54	0.00	3.47	1.16	1.63
27	Forb	HYFL	18	54	0.00	0.69	0.23	0.33
27	Forb	LESQU	18	54	0.00	0.33	0.11	0.15
27	Forb	PHACE	18	54	0.00	0.18	0.06	0.08
30	Shrub	QUHA3	0	216	66.00	445.00	223.75	117.30
31	Shrub	ARFI2	126	162	13.12	66.00	38.26	16.74

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
32	Shrub	GUSA2	18	54	0.00	7.57	3.79	3.79
32	Shrub	SENEC2	18	54	0.00	1.33	0.44	0.63
33	Shrub	YUGL	18	36	3.33	72.00	37.67	34.34
38	Tree	YUEL	18	54	0.00	23.33	7.78	11.00
39	Shrub	OPPO	18	54	0.00	10.00	5.00	5.00



Production Lbs/Acre Trends

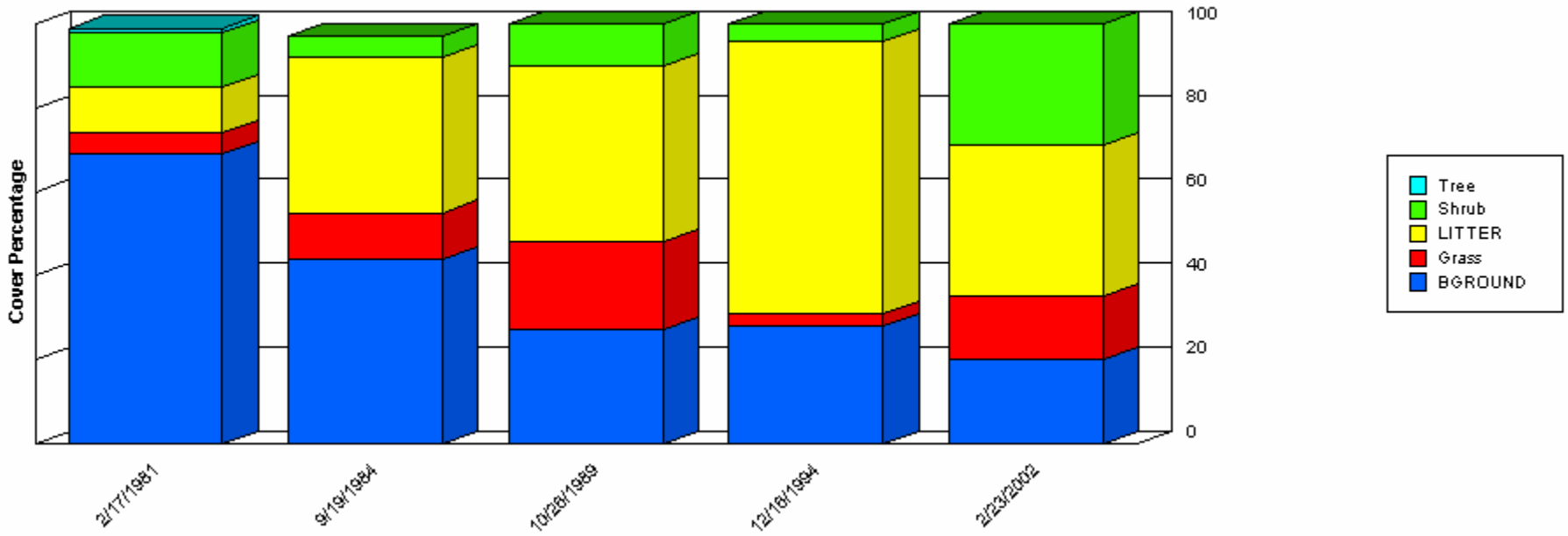


	2/17/1981	11/2/1981	10/25/1982	1/4/1984	9/19/1984	10/26/1989	12/16/1994	2/23/2002	1/5/2005
Forb	**1.00**	**3.28**	**12.10**	**0.00**	**6.45**	**13.00**	**3.00**	**1.43**	**31.25**
Grass	**112.00**	**229.18**	**308.36**	**73.54**	**417.15**	**247.00**	**307.00**	**67.45**	**343.22**
Shrub	**158.00**	**156.48**	**389.40**	**263.50**	**376.99**	**106.00**	**562.00**	**196.35**	**253.62**
Tree	**0.00**	**0.00**	**0.00**	**0.00**	**23.33**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**271.00**	**388.94**	**709.86**	**337.04**	**823.91**	**366.00**	**872.00**	**265.24**	**628.09**

Report Parameters

SITE NAME LIKE	65010-SOUTH 3-WELLS-D033
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2005

Ground Cover Trends



	2/17/1981	9/19/1984	10/26/1989	12/16/1994	2/23/2002
BGROUND	69.00	44.00	27.00	28.00	20.00
Grass	5.00	11.00	21.00	3.00	15.00
LITTER	11.00	37.00	42.00	65.00	36.00
Shrub	13.00	5.00	10.00	4.00	29.00
Tree	1.00	0.00	0.00	0.00	0.00
Total	99.00	97.00	100.00	100.00	100.00

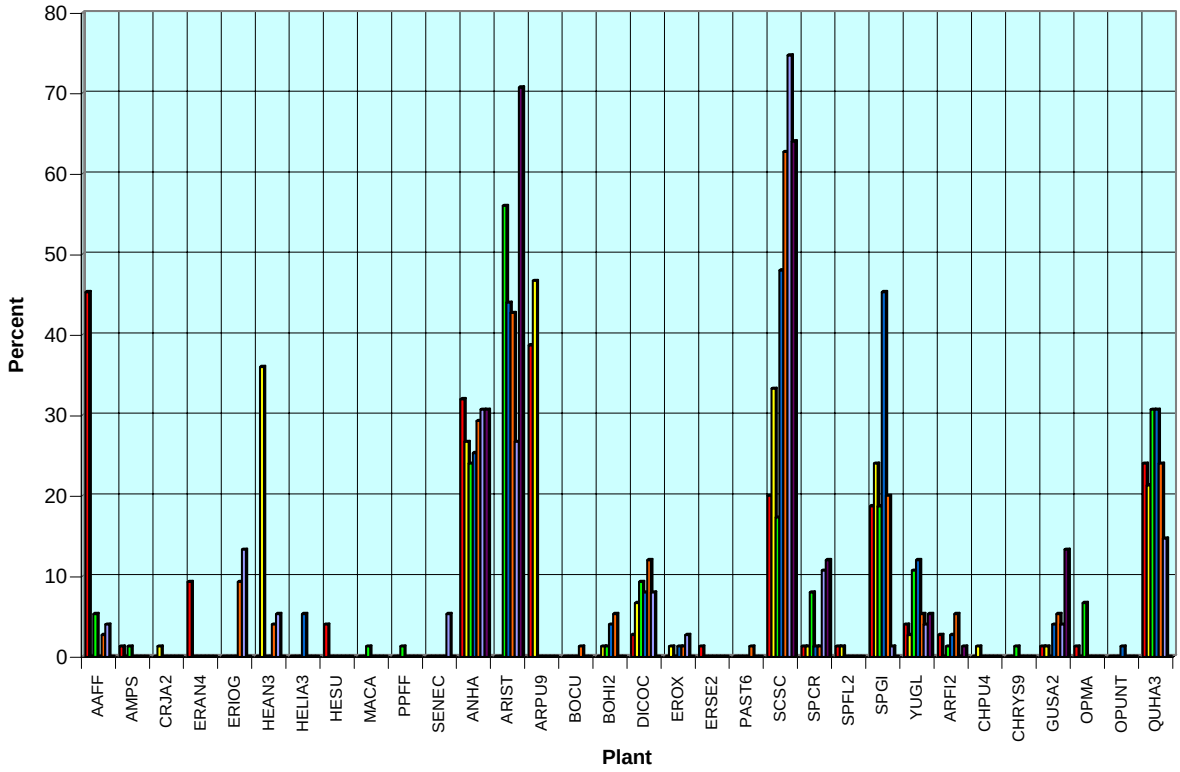
Robel Pole Summary over Time Report

Report Parameters
SITE NAME LIKE 65010-NORTH 3-WELLS-D032
ON/AFTER 10/01/1998
ON/BEFORE 09/30/2006

Primary Obstructions	**65010-NORTH 3-WELLS-D032**	**65010-NORTH 3-WELLS-D032**	**65010-NORTH 3-WELLS-D032**	**65010-NORTH 3-WELLS-D032**	**65010-NORTH 3-WELLS-D032**	**65010-NORTH 3-WELLS-D032**	**65010-NORTH 3-WELLS-D032**
	01/20/2006	**01/05/2005**	**02/22/2004**	**03/14/2003**	**03/29/2001**	**02/15/2000**	**04/06/1999**
Flag Stations	3	10	1	18	20	20	0
	% Hits	% Hits	% Hits	% Hits	% Hits	% Hits	% Hits
BGROUND	22.7 %	33.3 %	40.0 %	21.3 %	32.0 %	38.7 %	57.3 %
LITTER	46.7 %	34.7 %	42.7 %	52.0 %	33.3 %	42.7 %	18.7 %
ANHA	9.3 %	2.7 %	4.0 %	6.7 %	9.3 %	2.7 %	4.0 %
ARIST	0.0 %	0.0 %	8.0 %	6.7 %	8.0 %	5.3 %	10.7 %
ARPU9	12.0 %	8.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
BOHI2	0.0 %	0.0 %	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %
DICOC	0.0 %	4.0 %	0.0 %	2.7 %	5.3 %	1.3 %	0.0 %
EROX	0.0 %	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SCSC	2.7 %	5.3 %	1.3 %	4.0 %	6.7 %	8.0 %	9.3 %
SPFL2	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SPGI	2.7 %	2.7 %	0.0 %	2.7 %	2.7 %	0.0 %	0.0 %
OPMA	1.3 %	0.0 %	2.7 %	0.0 %	0.0 %	0.0 %	0.0 %
OPMA2	0.0 %	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
OPUNT	0.0 %	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %	0.0 %
QUHA3	1.3 %	5.3 %	1.3 %	1.3 %	0.0 %	1.3 %	0.0 %
YUGL	0.0 %	1.3 %	0.0 %	1.3 %	1.3 %	0.0 %	0.0 %

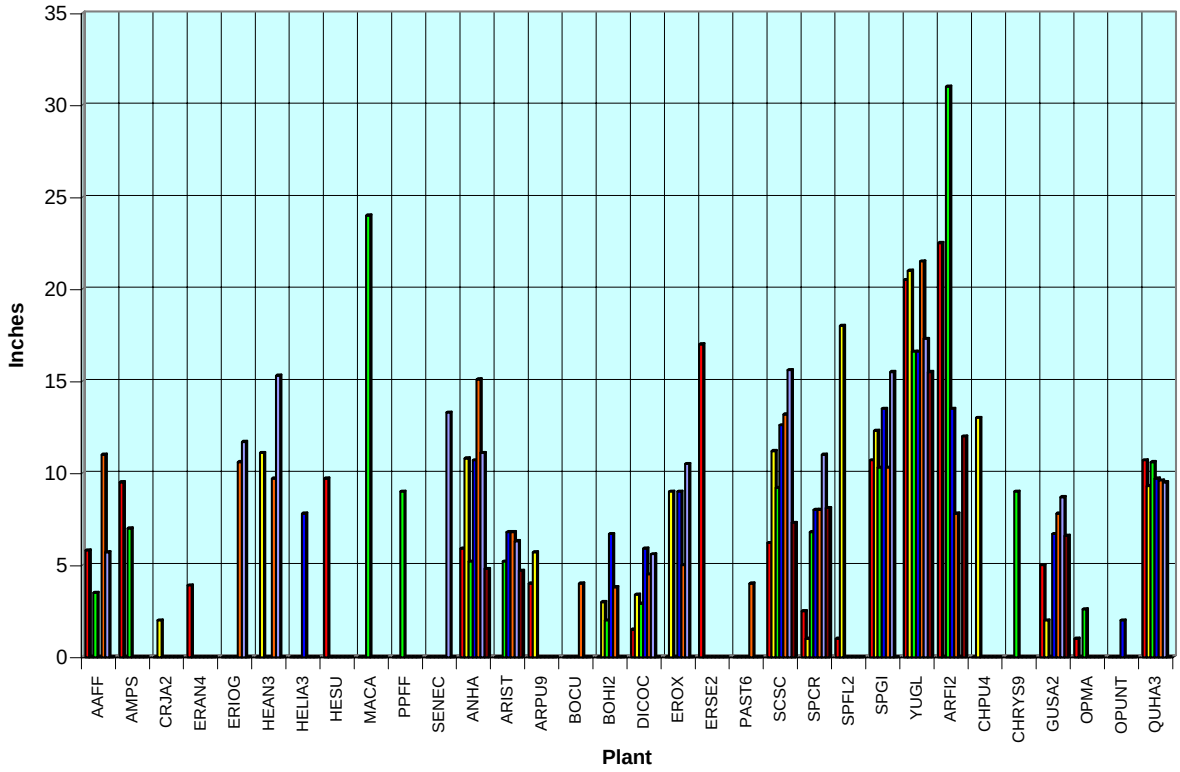
Secondary Obstructions	65010-NORTH 3-WELLS-D032		65010-NORTH 3-WELLS-D032		65010-NORTH 3-WELLS-D032		65010-NORTH 3-WELLS-D032		65010-NORTH 3-WELLS-D032		65010-NORTH 3-WELLS-D032		65010-NORTH 3-WELLS-D032	
	01/20/2006		01/05/2005		02/22/2004		03/14/2003		03/29/2001		02/15/2000		04/06/1999	
	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht
AAFF	45.3	5.8	0.0	0.0	5.3	3.5	0.0	0.0	2.7	11.0	4.0	5.7	0.0	0.0
AMPS	1.3	9.5	0.0	0.0	1.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CRJA2	0.0	0.0	1.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERAN4	9.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERIOG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	10.6	13.3	11.7	0.0	0.0
HEAN3	0.0	0.0	36.0	11.1	0.0	0.0	0.0	0.0	4.0	9.7	5.3	15.3	0.0	0.0
HELIA3	0.0	0.0	0.0	0.0	0.0	0.0	5.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0
HESU	4.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MACA	0.0	0.0	0.0	0.0	1.3	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPFF	0.0	0.0	0.0	0.0	1.3	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SENEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	13.3	0.0	0.0
ANHA	32.0	5.9	26.7	10.8	24.0	5.2	25.3	10.7	29.3	15.1	30.7	11.1	30.7	4.8
ARIST	0.0	0.0	0.0	0.0	56.0	5.2	44.0	6.8	42.7	6.8	26.7	6.3	70.7	4.7
ARPU9	38.7	4.0	46.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BOCU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	0.0	0.0	0.0	0.0
BOHI2	0.0	0.0	1.3	3.0	1.3	2.0	4.0	6.7	5.3	3.8	0.0	0.0	0.0	0.0
DICOC	2.7	1.5	6.7	3.4	9.3	2.9	8.0	5.9	12.0	4.5	8.0	5.6	0.0	0.0
EROX	0.0	0.0	1.3	9.0	0.0	0.0	1.3	9.0	1.3	5.0	2.7	10.5	0.0	0.0
ERSE2	1.3	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAST6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	0.0	0.0	0.0	0.0
SCSC	20.0	6.2	33.3	11.2	17.3	9.2	48.0	12.6	62.7	13.2	74.7	15.6	64.0	7.3
SPCR	1.3	2.5	1.3	1.0	8.0	6.8	1.3	8.0	1.3	8.0	10.7	11.0	12.0	8.1
SPFL2	1.3	1.0	1.3	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPGI	18.7	10.7	24.0	12.3	18.7	10.3	45.3	13.5	20.0	10.3	1.3	15.5	0.0	0.0
ARFI2	2.7	22.5	0.0	0.0	1.3	31.0	2.7	13.5	5.3	7.8	0.0	0.0	1.3	12.0
CHPU4	0.0	0.0	1.3	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHRYS9	0.0	0.0	0.0	0.0	1.3	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GUSA2	1.3	5.0	1.3	2.0	0.0	0.0	4.0	6.7	5.3	7.8	4.0	8.7	13.3	6.6
OPMA	1.3	1.0	0.0	0.0	6.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OPUNT	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
QUHA3	24.0	10.7	21.3	9.3	30.7	10.6	30.7	9.7	24.0	9.6	14.7	9.5	0.0	0.0
YUGL	4.0	20.5	2.7	21.0	10.7	16.6	12.0	16.6	5.3	21.5	4.0	17.3	5.3	15.5

Plant Composition



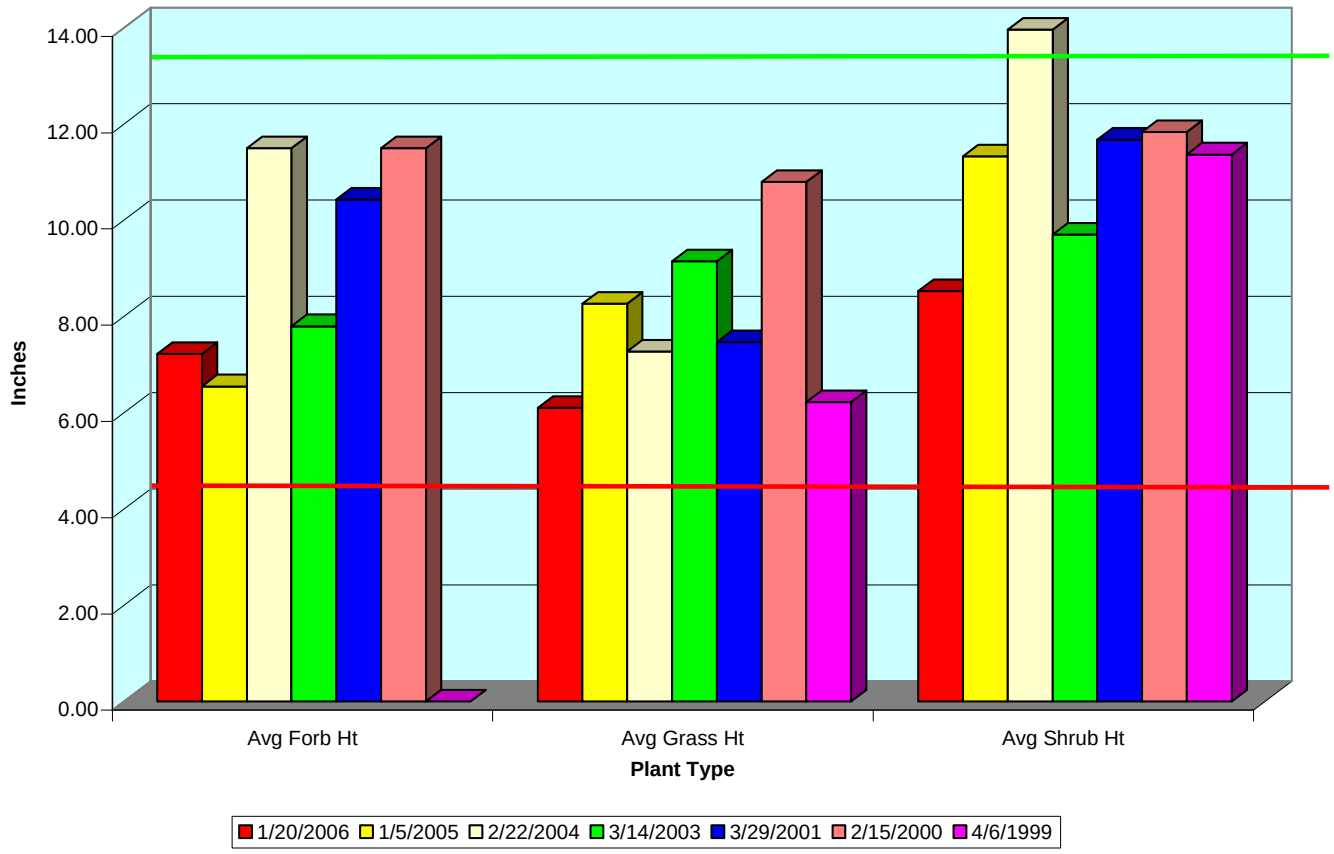
1/20/2006 Percent | 1/5/2005 Percent | 2/22/2004 Percent | 3/14/2003 Percent | 3/29/2001 Percent | 2/15/2000 Percent | 4/6/1999 Percent

Plant Average Visual Obstruction Height



1/20/2006 Avg Ht | 1/5/2005 Avg Ht | 2/22/2004 Avg Ht | 3/14/2003 Avg Ht | 3/29/2001 Avg Ht | 2/15/2000 Avg Ht | 4/6/1999 Avg Ht

Plant Type Average Visual Obstruction Height



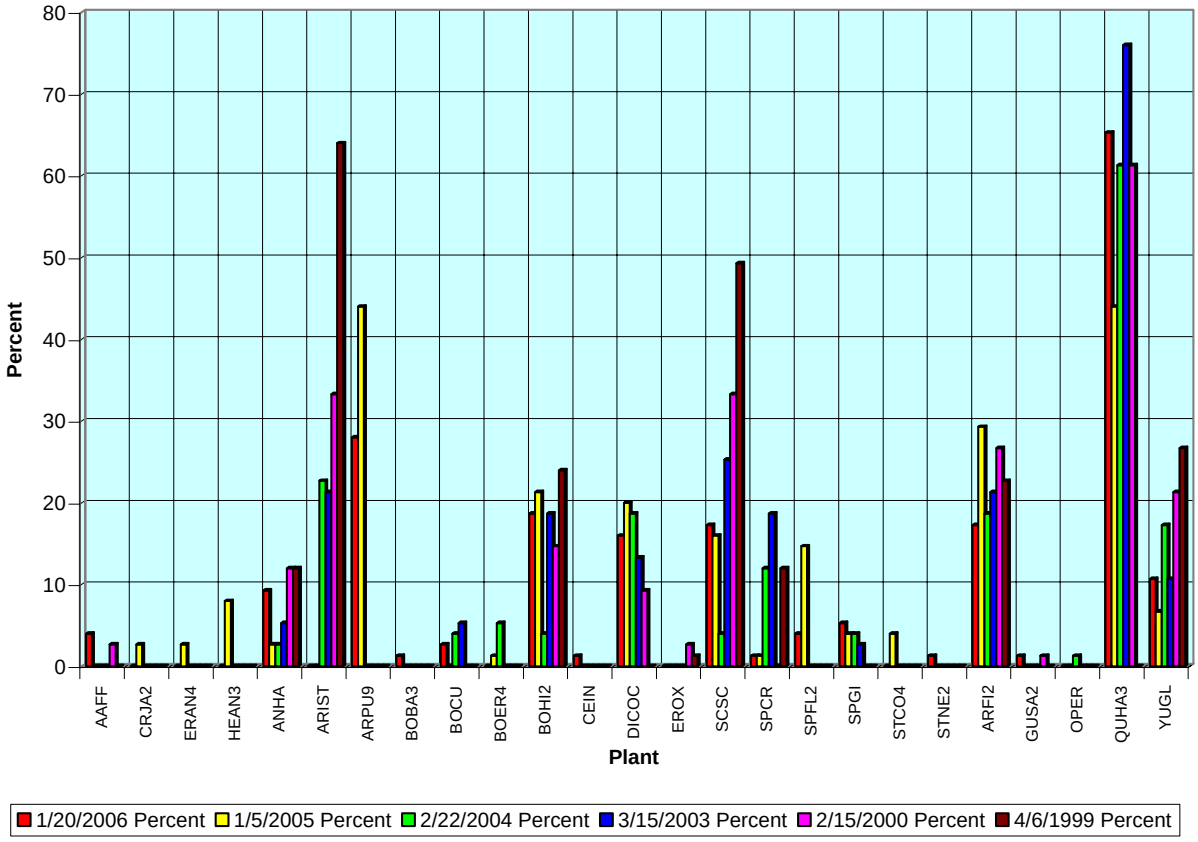
Robel Pole Summary over Time Report

Report Parameters
SITE NAME LIKE 65010-SOUTH 3-WELLS-D033
ON/AFTER 10/01/1998
ON/BEFORE 09/30/2006

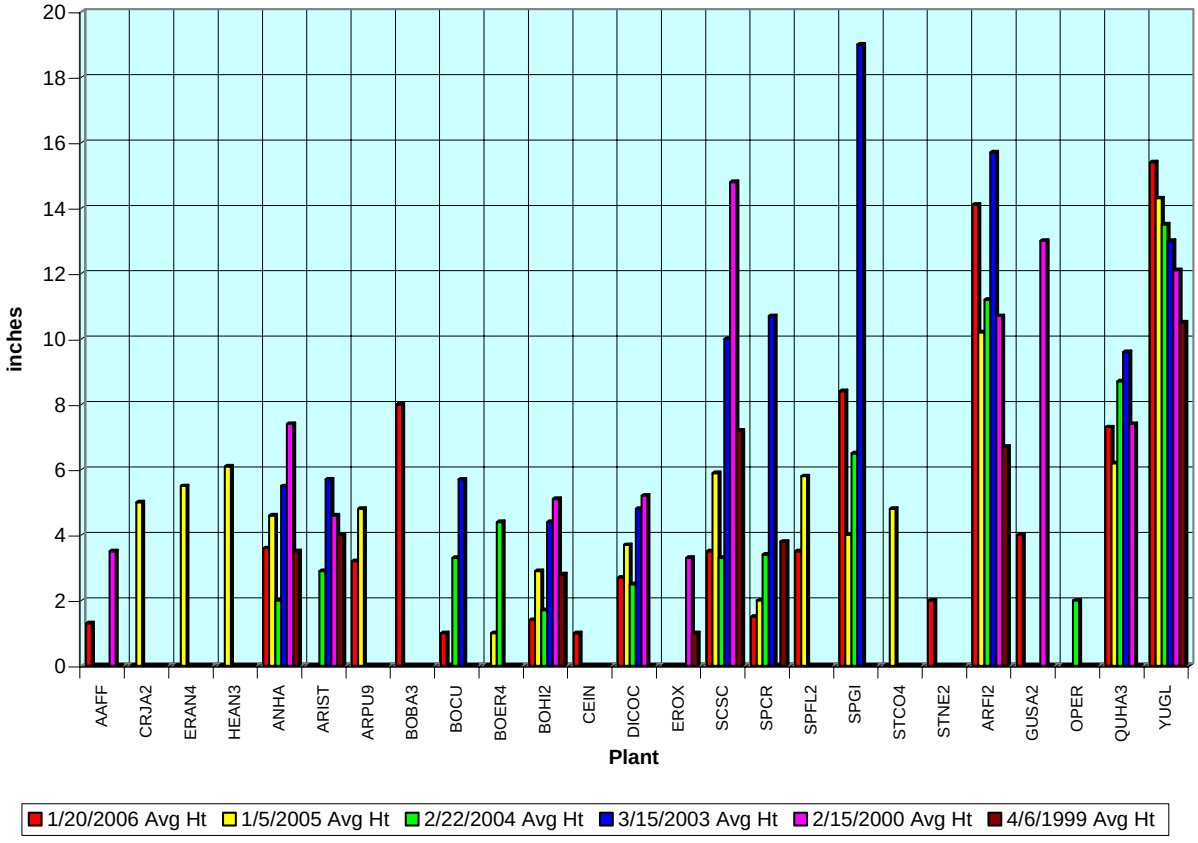
Primary Obstructions	**65010-SOUTH 3-WELLS-D033**	**65010-SOUTH 3-WELLS-D033**	**65010-SOUTH 3-WELLS-D033**	**65010-SOUTH 3-WELLS-D033**	**65010-SOUTH 3-WELLS-D033**	**65010-SOUTH 3-WELLS-D033**
	01/20/2006	**01/05/2005**	**02/22/2004**	**03/15/2003**	**02/15/2000**	**04/06/1999**
Flag Stations	2	0	0	7	2	0
	% Hits	% Hits	% Hits	% Hits	% Hits	% Hits
BGROUND	32.0 %	30.7 %	36.0 %	24.0 %	36.0 %	36.0 %
LITTER	30.7 %	49.3 %	45.3 %	54.7 %	45.3 %	21.3 %
ANHA	0.0 %	0.0 %	0.0 %	2.7 %	1.3 %	4.0 %
ARIST	0.0 %	0.0 %	2.7 %	4.0 %	4.0 %	10.7 %
ARPU9	4.0 %	4.0 %	0.0 %	0.0 %	0.0 %	0.0 %
BOBA3	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
BOCU	0.0 %	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %
BOER4	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %	0.0 %
BOHI2	8.0 %	4.0 %	2.7 %	1.3 %	6.7 %	12.0 %
DICOC	9.3 %	6.7 %	4.0 %	4.0 %	0.0 %	0.0 %
EROX	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	1.3 %
PAST6	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	1.3 %
SCSC	2.7 %	0.0 %	0.0 %	1.3 %	4.0 %	8.0 %
SPCR	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	2.7 %
SPFL2	1.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
ARFI2	0.0 %	4.0 %	4.0 %	0.0 %	2.7 %	1.3 %
OPER	0.0 %	0.0 %	1.3 %	0.0 %	0.0 %	0.0 %
QUHA3	8.0 %	0.0 %	1.3 %	6.7 %	0.0 %	0.0 %
YUGL	1.3 %	1.3 %	1.3 %	0.0 %	0.0 %	1.3 %

Secondary Obstructions	65010-SOUTH 3-WELLS-D033		65010-SOUTH 3-WELLS-D033		65010-SOUTH 3-WELLS-D033		65010-SOUTH 3-WELLS-D033		65010-SOUTH 3-WELLS-D033		65010-SOUTH 3-WELLS-D033	
	01/20/2006		01/05/2005		02/22/2004		03/15/2003		02/15/2000		04/06/1999	
	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht	Percent	Avg Ht
AAFF	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.5	0.0	0.0
CRJA2	0.0	0.0	2.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ERAN4	0.0	0.0	2.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HEAN3	0.0	0.0	8.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ANHA	9.3	3.6	2.7	4.6	2.7	2.0	5.3	5.5	12.0	7.4	12.0	3.5
ARIST	0.0	0.0	0.0	0.0	22.7	2.9	21.3	5.7	33.3	4.6	64.0	4.0
ARPU9	28.0	3.2	44.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BOBA3	1.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BOCU	2.7	1.0	0.0	0.0	4.0	3.3	5.3	5.7	0.0	0.0	0.0	0.0
BOER4	0.0	0.0	1.3	1.0	5.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0
BOHI2	18.7	1.4	21.3	2.9	4.0	1.7	18.7	4.4	14.7	5.1	24.0	2.8
CEIN	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DICOC	16.0	2.7	20.0	3.7	18.7	2.5	13.3	4.8	9.3	5.2	0.0	0.0
EROX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.3	1.3	1.0
SCSC	17.3	3.5	16.0	5.9	4.0	3.3	25.3	10.0	33.3	14.8	49.3	7.2
SPCR	1.3	1.5	1.3	2.0	12.0	3.4	18.7	10.7	0.0	0.0	12.0	3.8
SPFL2	4.0	3.5	14.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPGI	5.3	8.4	4.0	4.0	4.0	6.5	2.7	19.0	0.0	0.0	0.0	0.0
STCO4	0.0	0.0	4.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STNE2	1.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARFI2	17.3	14.1	29.3	10.2	18.7	11.2	21.3	15.7	26.7	10.7	22.7	6.7
GUSA2	1.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	13.0	0.0	0.0
OPER	0.0	0.0	0.0	0.0	1.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
QUHA3	65.3	7.3	44.0	6.2	61.3	8.7	76.0	9.6	61.3	7.4	0.0	0.0
YUGL	10.7	15.4	6.7	14.3	17.3	13.5	10.7	13.0	21.3	12.1	26.7	10.5

Plant Composition



Plant Average Visual Obstruction Height



Plant Type Average Visual Obstruction Height