

Direct Disturbance				
Coal Mining	Within Occupied		Intersect: Breeding Distribution	
	Range			
Management Zone	Acres	%	Acres	%
MZ I	90,769	0.20	3,030	0.029
MZ II	20,226	0.05	294	0.002
MZ II	371	0.00	1	0.000
MZ IV	0	0	0	0
MZ V	0	0	0	0
MZ VI	0	0	0	0
MZ VII	0	0	0	0
Range wide ¹	111,366	0.064	3,325	0.0

¹ All range wide calculations will not include Bi-State population or the Canadian portion of the rang



Direct Disturbance				
Non-Coal Mining	Within Occupied		Intersect: Breeding Distribution	
	Range			
Management Zone	Acres	%	Acres	%
MZ I	36,600	0.1	3,891	0.04
MZ II	82,828	0.2	15,998	0.13
MZ II	100,433	0.3	23,670	0.28
MZ IV	186,424	0.5	75,415	0.65
MZ V	14,525	0.1	856	0.02
MZ VI	12	0.0	0	0
MZ VII	13,293	1.1	321	0.20
Range wide ¹	434,114	0.250	120,151	0.3

¹ All range wide calculations will not include Bi-State population or the Canadian portion of the rang

Intersect: Population Index	
	%
	0.0387
	0.0243
	0.0003
	0
	0
	0
	0

e.



Intersect: Population Index	
	%
	0.0359
	0.2367
	0.1956
	0.3098
	0.0260
	0.0001
	0.1044

e.

OBJECTID	Mine_Type	AOI_Code	lgmt_zone	ST_MZ_Ac	hape_Length	hape_Area	Range_Hectares
1	Active Coal	Active Coal	MZ I	46080299	813063.4	3.67E+08	36732.94282
2	Active Coal	Active Coal	MZ II	37021278	378403.5	81850689	8185.068918
3	Active Coal	Active Coal	MZ III	28803339	25241.12	1500707	150.0706543

Range_Acres	agement_znt_Range_it_Range_Percent
90769.07849 MZ I	90769.08 0.19698
20225.74577 MZ II	20225.75 0.054633
370.8326627 MZ III	370.8327 0.001287

OBJECTID	Mine_Type	AOI_Code	Mgmt_zones
1	Active Coal Mines	Active Coal Mines Direct F MZ I	
2	Active Coal Mines	Active Coal Mines Direct F MZ II	
3	Active Coal Mines	Active Coal Mines Direct F MZ III	

FIRST_MZ_Acres	Shape_Length
10312900.78	46656.51875
11908197.73	18077.21385
8471599.596	321.6569712

Shape_Area	Distribution_Hectares
12261788.62	1226.178862
1188966.364	118.8966364
5454.305701	0.54543057

Distribution_Acres		agement_tribution_Percent
3029.953954	MZ I	0.02938
293.799987	MZ II	0.002467
1.347788291	MZ III	1.59E-05

OBJECTID	lining_Cod	AOI_Code	lgmt_zone	ST_MZ_A	chape_Leng	shape_Are	ange_Hecta	ange_Acre
1	Mining	Non Mining	Non MZ I	46080299	2206685	1.48E+08	14811.3	36599.51
2	Mining	Non Mining	Non MZ II	37021278	2924398	3.35E+08	33519.21	82827.76
3	Mining	Non Mining	Non MZ III	28803339	3177211	4.06E+08	40643.71	100432.8
4	Mining	Non Mining	Non MZ IV	38637313	2064455	7.54E+08	75443.12	186424
5	Mining	Non Mining	Non MZ V	19346653	599083.9	58778755	5877.876	14524.55
6	Mining	Non Mining	Non MZ VI	2757910	1693.421	48713.14	4.871314	12.03728
7	Mining	Non Mining	Non MZ VII	1180428	121406.2	53795203	5379.52	13293.08

agement_znt_Range_it_Range_Percent

MZ I	36599.51	0.079426
MZ II	82827.76	0.22373
MZ III	100432.8	0.348685
MZ IV	186424	0.482497
MZ V	14524.55	0.075075
MZ VI	12.03728	0.000436
MZ VII	13293.08	1.126124

OBJECTID	lining_Cod	AOI_Code	lgmt_zone	ST_MZ_A	chape_Leng	shape_Are	ribution_Her	ribution_A
1	Mining	Non Mining	Non MZ I	10312901	225450.9	15745487	1574.549	3890.795
2	Mining	Non Mining	Non MZ II	11908198	550348.5	64741310	6474.131	15997.93
3	Mining	Non Mining	Non MZ III	8471600	989588.1	95791075	9579.108	23670.49
4	Mining	Non Mining	Non MZ IV	11541296	903816.3	3.05E+08	30519.4	75415.08
5	Mining	Non Mining	Non MZ V	3463986	51286	3463069	346.3069	855.743
6	Mining	Non Mining	Non MZ VII	161337.7	15278.73	1297939	129.7939	320.7278

agement_zibution_Percent

MZ I	0.037727
MZ II	0.134344
MZ III	0.27941
MZ IV	0.653437
MZ V	0.024704
MZ VII	0.198793

OBJECTID	gmt_zon	input_Acre	put_Hectar	hape_Leng	hape_Are:	mPopIndx	lutSumPop	PercPopInd
1	MZ I	90769.08	36732.94	813063.4	3.67E+08	302415.6	116.9088	0.038658
2	MZ II	20225.75	8185.069	378403.5	81850690	519015.6	126.106	0.024297
3	MZ III	370.8327	150.0707	25241.12	1500707	223621.8	0.678302	0.000303

OBJECTID	gmt_zonen	input_Acre	put_Hectar	hape_Leng	hape_Are	mPopIndx	lutSumPop
1	MZ I	36599.51	14811.3	2206685	1.48E+08	302415.6	108.6284
2	MZ II	82827.76	33519.21	2924398	3.35E+08	519015.6	1228.336
3	MZ III	100432.8	40643.71	3177211	4.06E+08	223621.8	437.5061
4	MZ IV	186424	75443.12	2064455	7.54E+08	368616.1	1142.125
5	MZ V	14524.55	5877.875	599083.9	58778754	260404.8	67.83286
6	MZ VI	12.03728	4.871313	1693.42	48713.13	48986.14	0.05471
7	MZ VII	13293.08	5379.52	121406.2	53795203	18556.69	19.37285

PercPopInd

0.035920237

0.236666489

0.19564555

0.309841323

0.026049005

0.000111685

0.104398198
