

Direct Disturbance				
Urban and Exurban Development ¹		Within Occupied Range		Intersect: Breeding Di
Management Zone	Urban Class	Acres	%	Acres
MZ I	Urban (up to 1 ac)	13,063	0.03	300
	Exurban (1 - 40 ac)	112,761	0.24	2,983
	Urban Other	12,781	0.03	464
MZ II	Urban (up to 1 ac)	14,118	0.04	343
	Exurban (1 - 40 ac)	237,348	0.64	22,812
	Urban Other	16,027	0.04	517
MZ III	Urban (up to 1 ac)	5,271	0.02	855
	Exurban (1 - 40 ac)	138,905	0.48	33,727
	Urban Other	6,455	0.02	932
MZ IV	Urban (up to 1 ac)	1,721	0.00	741
	Exurban (1 - 40 ac)	65,576	0.17	9,568
	Urban Other	5,457	0.01	1,173
MZ V	Urban (up to 1 ac)	10,967	0.06	0
	Exurban (1 - 40 ac)	88,095	0.46	1,609
	Urban Other	8,780	0.05	2
MZ VI	Urban (up to 1 ac)	1,068	0.04	47
	Exurban (1 - 40 ac)	18,884	0.68	367
	Urban Other	934	0.03	55
MZ VII	Urban (up to 1 ac)	6	0.00	0
	Exurban (1 - 40 ac)	162	0.01	0
	Urban Other	2	0.00	0
Range wide ²		758,379	0.436	76,496

¹ Urban Residential (up to 1 ac), Exurban Residential (1 - 40 ac), and Urban Other

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



Indirect Disturbance ¹				
Urban ²		Within Occupied Range		Intersect: Breeding Di
Management Zone		Acres	%	Acres
MZ I		4,340,915	9.4	353,259
MZ II		6,463,256	17.5	1,112,106
MZ III		2,668,863	9.3	803,576
MZ IV		5,722,629	14.8	1,122,723
MZ V		1,708,692	8.8	71,758
MZ VI		638,761	23.2	98,072
MZ VII		47,756	4.0	3,323

Range wide ³	21,590,872	12.4	3,564,817
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¹ 3.0-km buffer to quantify indirect area of disturbance related to increased predator (corvid) densities near urb

² All Urban Residential (up to 1 ac), Exurban Residential (1 - 40 ac), and Urban Other combined for indirect distu

³ All range wide calculations will not include Bi-State population or the Canadian portion of the range.

istribution Intersect: Population Index

%	%
0.00	0.00
0.03	0.05
0.00	0.00
0.00	0.01
0.19	0.29
0.00	0.01
0.01	0.00
0.40	0.26
0.01	0.01
0.01	0.00
0.08	0.06
0.01	0.01
0.00	0.00
0.05	0.01
0.00	0.00
0.00	0.02
0.03	0.05
0.00	0.02
0.0	0.00
0.0	0.00
0.0	0.00
0.163	



istribution Intersect: Population Index

%	%
3.4	4.0
9.3	11.5
9.5	7.1
9.7	8.3
2.1	1.7
8.9	13.7
2.1	2.7

7.6

urban/suburban areas (Bui et al. 2010)
urban buffer.

OBJECTID	Legend	Mgmt_zones	FIRST_MZ_Acres
1	Exurban ('MZ I		46080299
2	Exurban ('MZ II		37021278
3	Exurban ('MZ III		28803339
4	Exurban ('MZ IV		38637313
5	Exurban ('MZ V		19346653
6	Exurban ('MZ VI		2757910
7	Exurban ('MZ VII		1180428
8	Urban (up MZ I		46080299
9	Urban (up MZ II		37021278
10	Urban (up MZ III		28803339
11	Urban (up MZ IV		38637313
12	Urban (up MZ V		19346653
13	Urban (up MZ VI		2757910
14	Urban (up MZ VII		1180428
15	Urban Oth MZ I		46080299
16	Urban Oth MZ II		37021278
17	Urban Oth MZ III		28803339
18	Urban Oth MZ IV		38637313
19	Urban Oth MZ V		19346653
20	Urban Oth MZ VI		2757910
21	Urban Oth MZ VII		1180428

Shape_Length	Shape_Area	Range_Hectares
5539284.356	456327318.5	45632.73185
12144272.17	960515230.7	96051.52307
4477367.586	562128792.2	56212.87922
4744067.536	265377316.3	26537.73163
3258709.797	356505920.6	35650.59206
919820.4396	76422819.98	7642.281998
13124.65899	654964.1299	65.49641299
1077838.484	52862142.47	5286.214247
1353480.568	57133111.03	5713.311103
691128.3273	21330493.31	2133.049331
256153.5226	6965547.152	696.5547152
749337.9683	44382714.6	4438.27146
123411.6535	4321309.155	432.1309155
1259.546179	24299.99629	2.429999629
1527535.604	51721356.93	5172.135693
2193986.18	64860129.43	6486.012943
788377.5324	26121062.48	2612.106248
1026096.21	22082893.35	2208.289335
780067.2	35530919.43	3553.091943
167160.6743	3777801.745	377.7801745
361.0487446	6300.001882	0.630000188

Range_Acres	Management_Zone	Current_Range_Acres
112760.9361	MZ I	112760.9361
237348.4825	MZ II	237348.4825
138905.0496	MZ III	138905.0496
65576.16298	MZ IV	65576.16298
88094.5315	MZ V	88094.5315
18884.49008	MZ VI	18884.49008
161.8451612	MZ VII	161.8451612
13062.51988	MZ I	13062.51988
14117.8992	MZ II	14117.8992
5270.879685	MZ III	5270.879685
1721.224186	MZ IV	1721.224186
10967.20762	MZ V	10967.20762
1067.818747	MZ VI	1067.818747
6.004659854	MZ VII	6.004659854
12780.62563	MZ I	12780.62563
16027.28703	MZ II	16027.28703
6454.65511	MZ III	6454.65511
5456.801784	MZ IV	5456.801784
8779.881399	MZ V	8779.881399
933.5151414	MZ VI	933.5151414
1.556764368	MZ VII	1.556764368

Current_Range_Percent

0.244705305
0.641113693
0.482253289
0.169722369
0.455347659
0.684739171
0.013710719
0.028347298
0.038134554
0.018299544
0.004454824
0.056687881
0.038718404
0.000508685
0.027735553
0.043292095
0.022409399
0.01412314
0.045381914
0.033848644
0.000131881



OBJECTID	Legend	mgmt_zone	IRST_MZ_Acre	Shape_Length	Shape_Area
1	Exurban (1 MZ I		10312900.78	176931.9829	12071700
2	Exurban (1 MZ II		11908197.73	1077800.891	92315704
3	Exurban (1 MZ III		8471599.596	1180767.861	1.36E+08
4	Exurban (1 MZ IV		11541296.05	587420.81	38721601
5	Exurban (1 MZ V		3463986.491	62924.48254	6513300
6	Exurban (1 MZ VI		1102989.484	29040.84532	1486800
7	Urban (up t MZ I		10312900.78	30890.63281	1212300
8	Urban (up t MZ II		11908197.73	50086.65515	1388700
9	Urban (up t MZ III		8471599.596	97922.40107	3460500
10	Urban (up t MZ IV		11541296.05	88368.21456	2998800
11	Urban (up t MZ VI		1102989.484	7080.503939	189000
12	Urban Othe MZ I		10312900.78	64930.79902	1879200
13	Urban Othe MZ II		11908197.73	88619.06216	2093400
14	Urban Othe MZ III		8471599.596	145461.7559	3771000
15	Urban Othe MZ IV		11541296.05	203843.7119	4746600
16	Urban Othe MZ V		3463986.491	720.6893754	8099.999
17	Urban Othe MZ VI		1102989.484	8522.125913	222300

Distribution_Hectares	Distribution_Acres	Management_Zone
1207.169986	2982.981999	MZ I
9231.570408	22811.70727	MZ II
13648.76995	33726.84505	MZ III
3872.160118	9568.31603	MZ IV
651.329993	1609.471464	MZ V
148.6800004	367.3962821	MZ VI
121.2300097	299.5658779	MZ I
138.8700011	343.155246	MZ II
346.0499998	855.108172	MZ III
299.879984	741.0195784	MZ IV
18.89999888	46.70291433	MZ VI
187.920001	464.3604353	MZ I
209.3400043	517.2904162	MZ II
377.0999962	931.8343842	MZ III
474.6599859	1172.910369	MZ IV
0.809999864	2.001553253	MZ V
22.22999565	54.93151556	MZ VI

Distribution_Percent

0.028924762
0.191563054
0.398116609
0.082905039
0.046462983
0.033309137
0.002904768
0.002881672
0.010093822
0.006420592
0.004234212
0.004502714
0.004343986
0.010999509
0.010162727
5.77818E-05
0.004980239

OBJECTID	Urban	BUFF_DIST	AOI_Code	gmt_zone	ST_MZ_Ac	hape_Leng	Shape_Are	ange_Hecta
1	Urban	3000	Indirect For	MZ I	46080299	9536676	1.76E+10	1756706
2	Urban	3000	Indirect For	MZ II	37021278	11074856	2.62E+10	2615587
3	Urban	3000	Indirect For	MZ III	28803339	5617236	1.08E+10	1080051
4	Urban	3000	Indirect For	MZ IV	38637313	12210582	2.32E+10	2315866
5	Urban	3000	Indirect For	MZ V	19346653	4117197	6.91E+09	691483.3
6	Urban	3000	Indirect For	MZ VI	2757910	1696758	2.58E+09	258497.4
7	Urban	3000	Indirect For	MZ VII	1180428	259378.7	1.93E+08	19326.31

Range_Acreage	ment_Znt_Range	_t_Range_Percent
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4340915 MZ I	4340915	9.420327
6463256 MZ II	6463256	17.45822
2668863 MZ III	2668863	9.265811
5722629 MZ IV	5722629	14.81115
1708692 MZ V	1708692	8.831979
638761 MZ VI	638761	23.16105
47756.35 MZ VII	47756.35	4.045681

OBJECTID	Urban	BUFF_DIST	AOI_Code	gmt_zone	ST_MZ_Ac	hape_Leng	Shape_Area	tribution_Hec
1	Urban	3000	Indirect For	MZ I	10312901	2227256	1.43E+09	142959
2	Urban	3000	Indirect For	MZ II	11908198	5586369	4.5E+09	450053.1
3	Urban	3000	Indirect For	MZ III	8471600	3082345	3.25E+09	325195.6
4	Urban	3000	Indirect For	MZ IV	11541296	6122799	4.54E+09	454349.8
5	Urban	3000	Indirect For	MZ V	3463986	861820.8	2.9E+08	29039.39
6	Urban	3000	Indirect For	MZ VI	1102989	653697	3.97E+08	39688.37
7	Urban	3000	Indirect For	MZ VII	161337.7	31625.52	13447232	1344.723

tribution_Aagement_zibution_Percent

353259.4 MZ I	3.425413
1112106 MZ II	9.338991
803575.8 MZ III	9.485527
1122723 MZ IV	9.727875
71757.88 MZ V	2.071541
98072.09 MZ VI	8.89148
3322.883 MZ VII	2.059583

OBJECTID	MZ_LEGENE	ONE_COD	COUNT	AREA	SUM	utSumPop	Igmt_Zone	mPop	Indx
1	MZ I_Exur	1	31721	4.57E+08	163.5501	163.5501	MZ I	302387.8	
2	MZ II_Exur	2	66762	9.61E+08	1496.269	1496.269	MZ II	518962.9	
3	MZ III_Exur	3	39033	5.62E+08	575.0615	575.0615	MZ III	223567.8	
4	MZ IV_Exur	4	18499	2.66E+08	229.2683	229.2683	MZ IV	368578.1	
5	MZ V_Exur	5	24806	3.57E+08	38.57685	38.57685	MZ V	260386.8	
6	MZ VI_Exur	6	5289	76161600	24.4922	24.4922	MZ VI	48980.79	
7	MZ VII_Exur	7	43	619200	0.238616	0.238616	MZ VII	18523.33	
8	MZ I_Urba	8	3713	53467200	10.88612	10.88612	MZ I	302387.8	
9	MZ II_Urba	9	3989	57441600	42.97238	42.97238	MZ II	518962.9	
10	MZ III_Urba	10	1482	21340800	10.74119	10.74119	MZ III	223567.8	
11	MZ IV_Urba	11	445	6408000	7.799186	7.799186	MZ IV	368578.1	
12	MZ V_Urba	12	3074	44265600	0.56801	0.56801	MZ V	260386.8	
13	MZ VI_Urba	13	302	4348800	8.411273	8.411273	MZ VI	48980.79	
14	MZ VII_Urba	14	2	28800	0	0	MZ VII	18523.33	
15	MZ I_Urba	15	3576	51494400	12.4004	12.4004	MZ I	302387.8	
16	MZ II_Urba	16	4542	65404800	52.04711	52.04711	MZ II	518962.9	
17	MZ III_Urba	17	1858	26755200	15.91012	15.91012	MZ III	223567.8	
18	MZ IV_Urba	18	1588	22867200	21.85992	21.85992	MZ IV	368578.1	
19	MZ V_Urba	19	2464	35481600	0.898271	0.898271	MZ V	260386.8	
20	MZ VI_Urba	20	250	3600000	8.784571	8.784571	MZ VI	48980.79	
21	MZ VII_Urba	21	1	14400	0	0	MZ VII	18523.33	

PercPopInd

0.054086

0.288319

0.25722

0.062203

0.014815

0.050004

0.001288

0.0036

0.00828

0.004804

0.002116

0.000218

0.017173

0

0.004101

0.010029

0.007116

0.005931

0.000345

0.017935

0

OBJECTID	Mgmt_zone	input_Acre	input_Hectar	shape_Leng	shape_Are:m	PopIndxlutSum	PopPerc	PopInd
1	MZ I	4340915	1756706	9536676	1.76E+10	302415.6	12002.6	3.968909
2	MZ II	6463256	2615587	11074856	2.62E+10	519015.6	59749.2	11.51202
3	MZ III	2668863	1080051	5617236	1.08E+10	223621.8	15801.34	7.0661
4	MZ IV	5722629	2315866	12210582	2.32E+10	368616.1	30610.4	8.304141
5	MZ V	1708692	691483.3	4117197	6.91E+09	260404.8	4348.538	1.669915
6	MZ VI	638761	258497.4	1696758	2.58E+09	48986.14	6709.632	13.697
7	MZ VII	47756.35	19326.31	259378.7	1.93E+08	18556.69	493.4944	2.659388

