APPENDIX A

SUPPORTING TABLES AND FIGURES – COAL MINE SUBREGIONS

Table A-1
Wyoming PRB Coal Development by Subregion
Impact-causing Parameters under the Lower Production Scenario[1]
(based on database)

Subregion	Annual Production for Most Recent Report Year (million tons)	Cumulative Disturbed Area for Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Available for Reclamation through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Unavailable for Reclamation through Most Recent Report Year (acres)	Total Employment for Report Year	Annual Water Consumption (mmgpy)	Annual Water Production (acre-feet)
Past and Present (2003)								
Subregion 1	55	12,047	3,054	3,360	5,633	746	387	586
Subregion 2	77	21,249	6,783	6,107	8,359	861	544	1,373
Subregion 3	231	35,498	11,401	13,992	10,105	3,090	1,709	2,295
Total for Past and Present	**363**	**68,794**	**21,238**	**23,459**	**24,097**	**4,697**	**2,640**	**4,254**
Reasonably Foreseeable Development (2010)								
Subregion 1	62	15,231	5,004	3,968	6,260	787	441	505
Subregion 2	95	28,021	12,183	6,830	9,008	1,323	656	2,072
Subregion 3	254	55,410	27,751	16,588	11,070	3,153	1,874	4,354
Total for 2010	**411**	**98,662**	**44,938**	**27,386**	**26,338**	**5,263**	**2,971**	**6,931**
Reasonably Foreseeable Development (2015)								
Subregion 1	74	17,457	6,654	4,202	6,601	830	543	505
Subregion 2	112	32,356	15,683	7,314	9,359	1,369	764	2,072
Subregion 3	281	67,423	38,851	16,983	11,589	3,186	2,077	4,354
Total for 2015	**467**	**117,236**	**61,188**	**28,499**	**27,549**	**5,405**	**3,384**	**6,931**
Reasonably Foreseeable Development (2020)								
Subregion 1	78	19,729	8,429	4,350	6,950	840	569	505
Subregion 2	126	36,994	19,683	7,589	9,723	1,476	845	2,072
Subregion 3	291	80,720	51,351	17,243	12,124	3,215	2,157	4,354
Total for 2020	**495**	**137,443**	**79,463**	**29,182**	**28,797**	**5,531**	**3,571**	**6,931**

[1]Applies to both the Task 1D and Task 3D study areas (**Figures C-1** and **D-1**, respectively).

Table A-2
Wyoming PRB Coal Development by Subregion
Impact-causing Parameters under the Upper Production Scenario[1]
(based on database)

Subregion	Annual Production for Most Recent Report Year (million tons)	Cumulative Disturbed Area for Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year(acres)	Cumulative Unreclaimed Areas Available for Reclamation through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Unavailable for Reclamation through Most Recent Report Year (acres)	Total Employment for Report Year	Annual Water Consumption (mmgpy)	Annual Water Production (acre-feet)
Past and Present (2003)								
Subregion 1	55	12,047	3,054	3,360	5,633	746	387	586
Subregion 2	77	21,249	6,783	6,107	8,359	861	544	1,373
Subregion 3	232	35,498	11,401	13,992	10,105	3,090	1,709	2,295
Total for Past and Present	**364**	**68,794**	**21,238**	**23,459**	**24,097**	**4,697**	**2,640**	**4,254**
Reasonably Foreseeable Development (2010)								
Subregion 1	78	15,911	5,404	4,217	6,290	811	570	505
Subregion 2	117	29,279	13,416	7,536	8,328	1,375	807	2,072
Subregion 3	284	57,258	27,951	18,236	11,070	3,153	2,101	4,354
Total for 2010	**479**	**102,448**	**46,771**	**29,989**	**25,688**	**5,339**	**3,478**	**6,931**
Reasonably Foreseeable Development (2015)								
Subregion 1	104	18,490	7,329	4,500	6,660	905	785	505
Subregion 2	138	35,624	18,616	8,248	8,760	1,431	952	2,072
Subregion 3	301	70,431	39,451	19,391	11,589	3,186	1,834	4,354
Total for 2015	**543**	**124,545**	**65,396**	**32,139**	**27,009**	**5,522**	**3,571**	**6,931**
Reasonably Foreseeable Development (2020)								
Subregion 1	121	21,311	9,529	4,766	7,013	1,019	935	505
Subregion 2	148	42,981	25,016	8,758	9,206	1,444	1,018	2,072
Subregion 3	307	84,797	51,651	21,021	12,124	3,215	2,279	4,354
Total for 2020	**576**	**149,089**	**86,196**	**34,545**	**28,345**	**5,678**	**4,232**	**6,931**

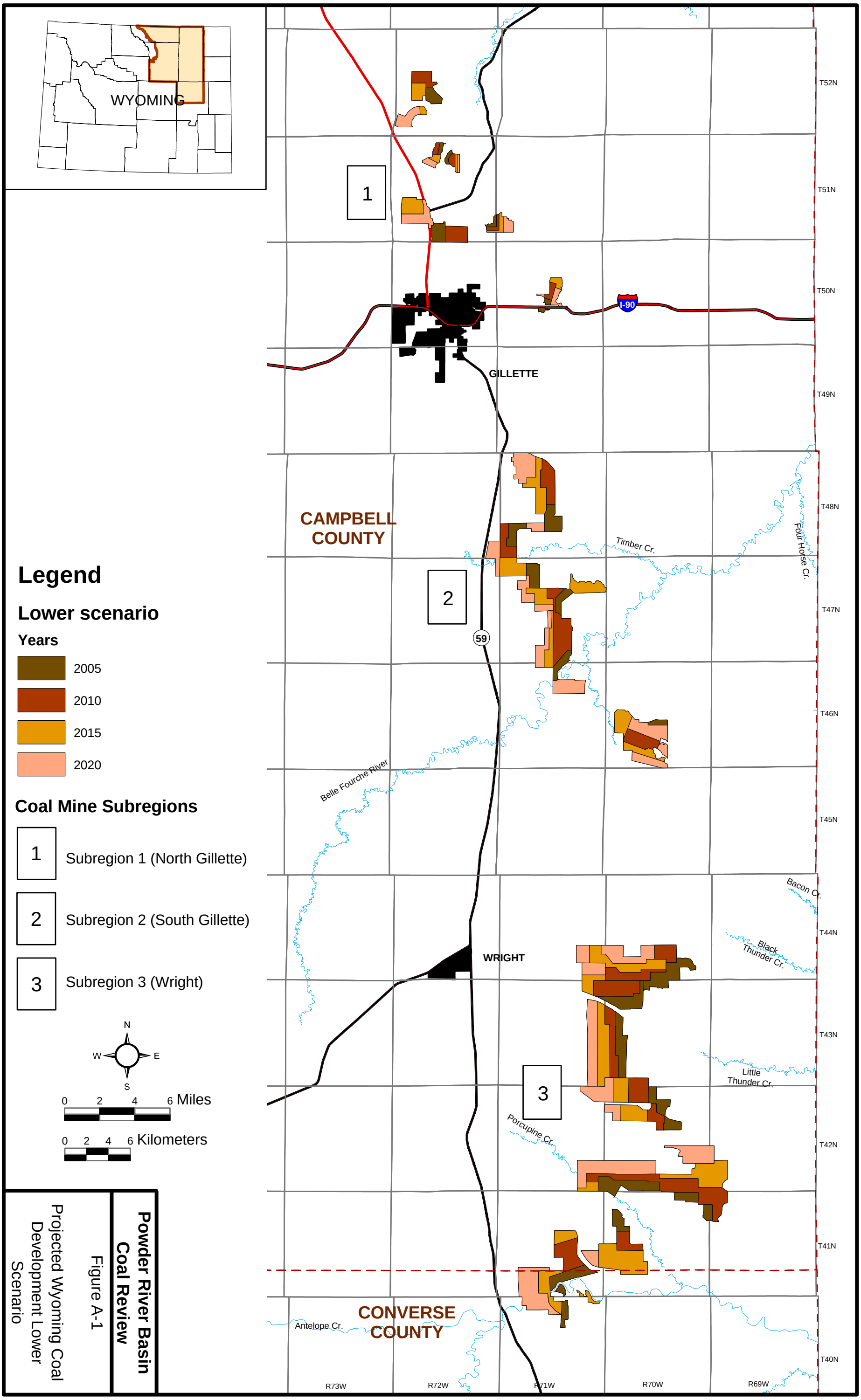
[1] Applies to both the Task 1D and Task 3D study areas (**Figures C-1** and **D-1**, respectively).

Table A-3
Montana PRB Coal Development by Subregion
Impact-causing Parameters under the Lower Production Scenario
(based on database)

Subregion	Annual Production for Most Recent Report Year (million tons)	Cumulative Disturbed Area for Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Available for Reclamation through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Unavailable for Reclamation through Most Recent Report Year (acres)	Total Employment for Report Year	Annual Water Consumption (mmgpy)	Annual Water Production (acre-feet)
Past and Present (2003)								
Subregion 4	17	9,581	2,474	3,677	3,430	277	122	0
Subregion 5	19.1	22,037	11,318	7,831	2,888	456	141	0
Total for Past and Present	**36.1**	**31,618**	**13,792**	**11,508**	**6,318**	**733**	**263**	**0**
Reasonably Foreseeable Development (2010)								
Subregion 4	21	29,310	3,614	15,226	10,470	316	151	0
Subregion 5	20	64,393	15,718	39,981	8,694	432	144	0
Total for 2010	**41**	**93,703**	**19,332**	**55,207**	**19,164**	**748**	**295**	**0**
Reasonably Foreseeable Development (2015)								
Subregion 4	28	39,815	4,764	20,821	14,230	400	202	0
Subregion 5	20	84,252	18,924	53,716	11,612	411	144	0
Total for 2015	**48**	**124,067**	**23,688**	**74,537**	**25,842**	**811**	**346**	**0**
Reasonably Foreseeable Development (2020)								
Subregion 4	36	50,928	6,089	26,389	18,450	492	260	0
Subregion 5	20	103,309	22,303	67,067	13,939	391	144	0
Total for 2020	**56**	**154,237**	**28,392**	**93,456**	**32,389**	**883**	**404**	**0**

Table A-4
Montana PRB Coal Development by Subregion
Impact-causing Parameters under the Upper Production Scenario
(based on database)

Subregion	Annual Production for Most Recent Report Year (million tons)	Cumulative Disturbed Area for Year (acres)	Cumulative Permanently Reclaimed Areas through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Available for Reclamation through Most Recent Report Year (acres)	Cumulative Unreclaimed Areas Unavailable for Reclamation through Most Recent Report Year (acres)	Total Employment for Report Year	Annual Water Consumption (mmgpy)	Annual Water Production (acre-feet)
Past and Present (2003)								
Subregion 4	17	9,581	2,474	3,677	3,430	277	122	0
Subregion 5	19.1	22,037	11,318	7,831	2,888	456	141	0
Total for Past and Present	**36.1**	**31,618**	**13,792**	**11,508**	**6,318**	**733**	**263**	**0**
Reasonably Foreseeable Development (2010)								
Subregion 4	27	29,686	3,614	15,602	10,470	372	195	0
Subregion 5	24	64,713	15,718	40,151	8,844	476	174	0
Total for 2010	**51**	**94,399**	**19,332**	**55,753**	**19,314**	**848**	**369**	**0**
Reasonably Foreseeable Development (2015)								
Subregion 4	35	40,737	4,764	21,743	14,230	444	252	0
Subregion 5	39	85,823	18,880	54,831	12,112	707	282	0
Total for 2015	**74**	**126,560**	**23,644**	**76,574**	**26,342**	**1151**	**534**	**0**
Reasonably Foreseeable Development (2020)								
Subregion 4	42	52,541	6,089	28,002	18,450	491	302	0
Subregion 5	41	108,343	22,302	70,852	15,189	676	296	0
Total for 2020	**83**	**160,884**	**28,391**	**98,854**	**33,639**	**1167**	**598**	**0**

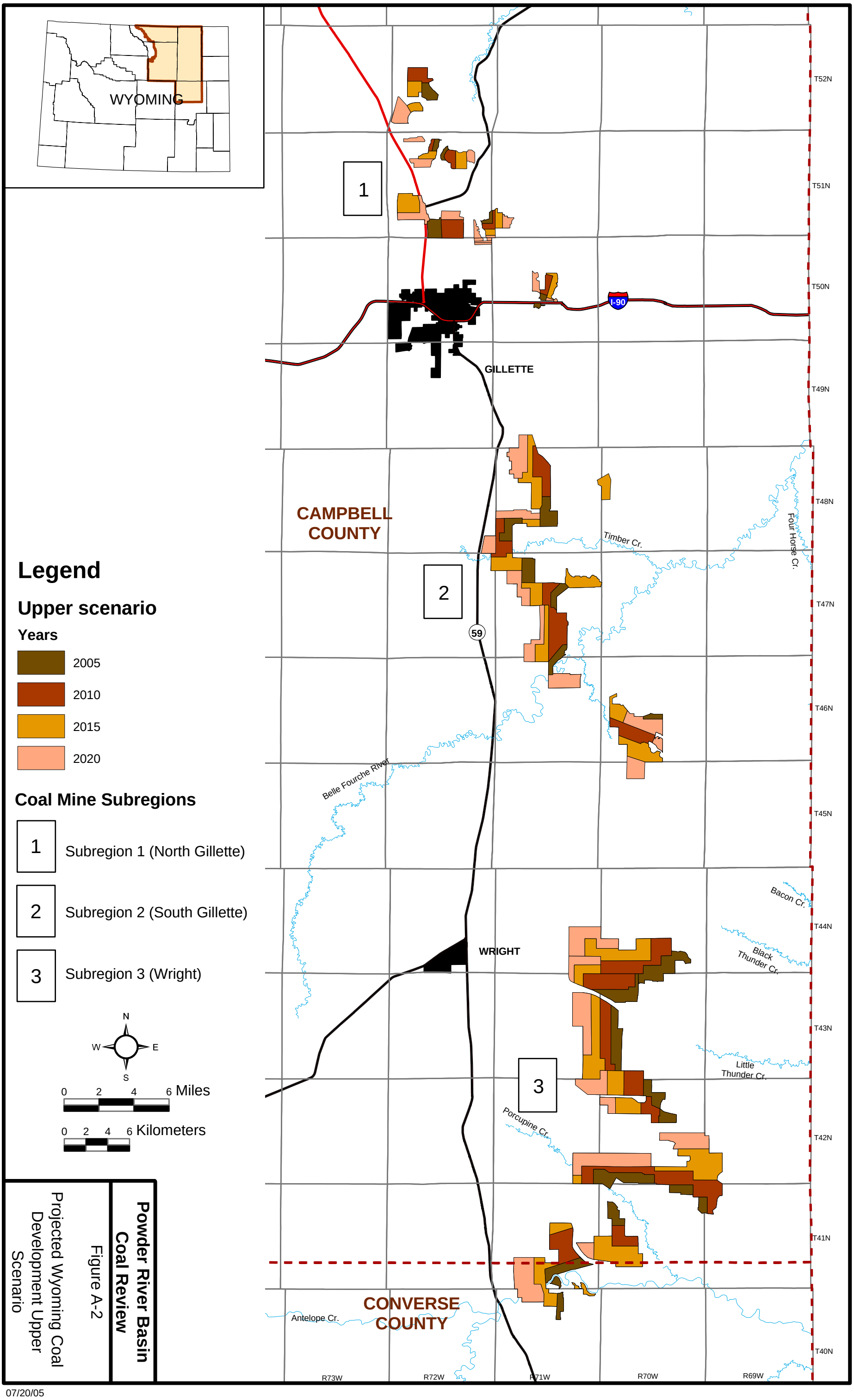


Powder River Basin Coal Review

Figure A-1

Projected Wyoming Coal Development Lower Scenario

07/20/05

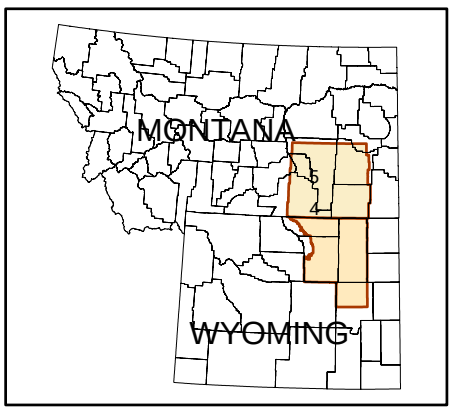


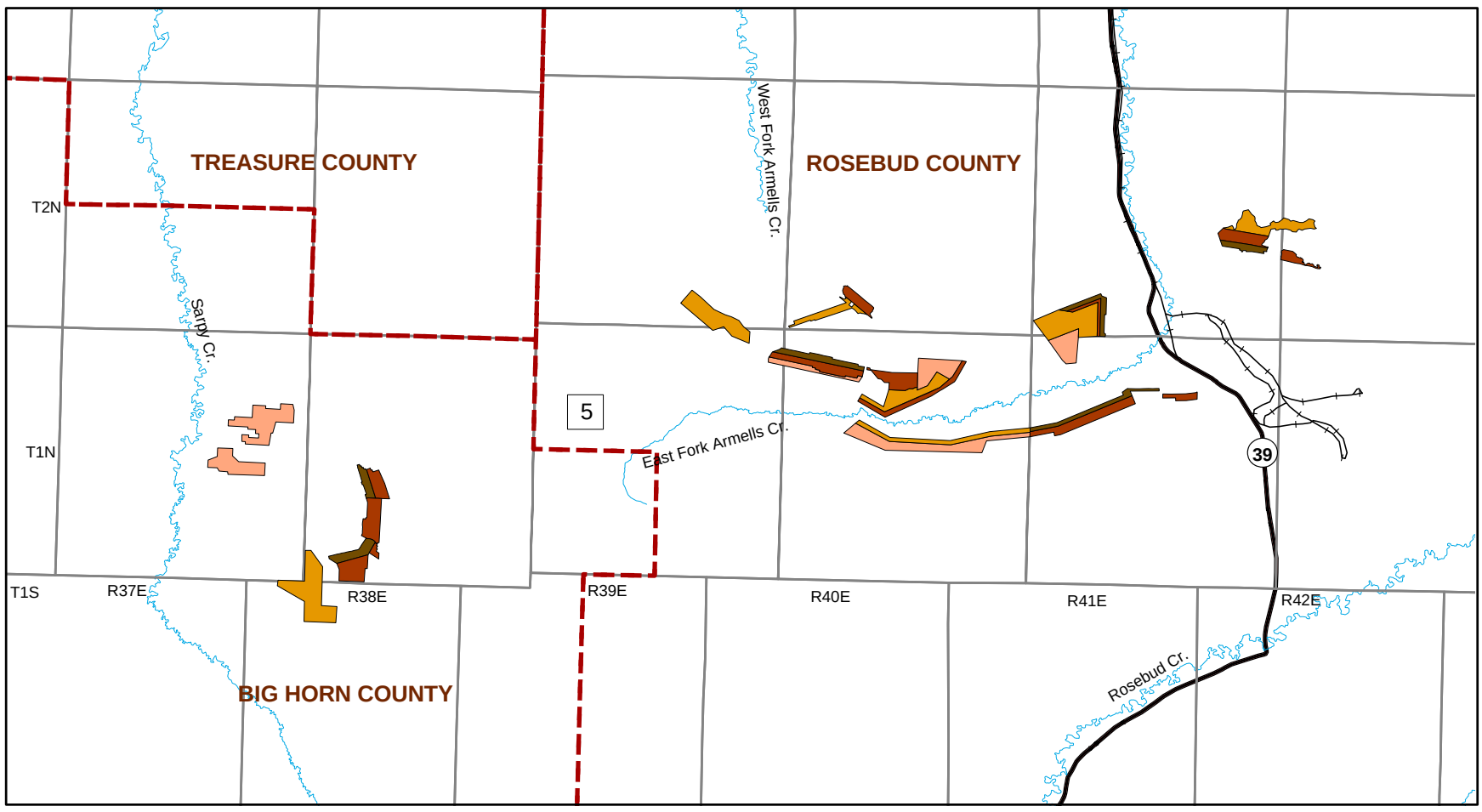
Powder River Basin Coal Review

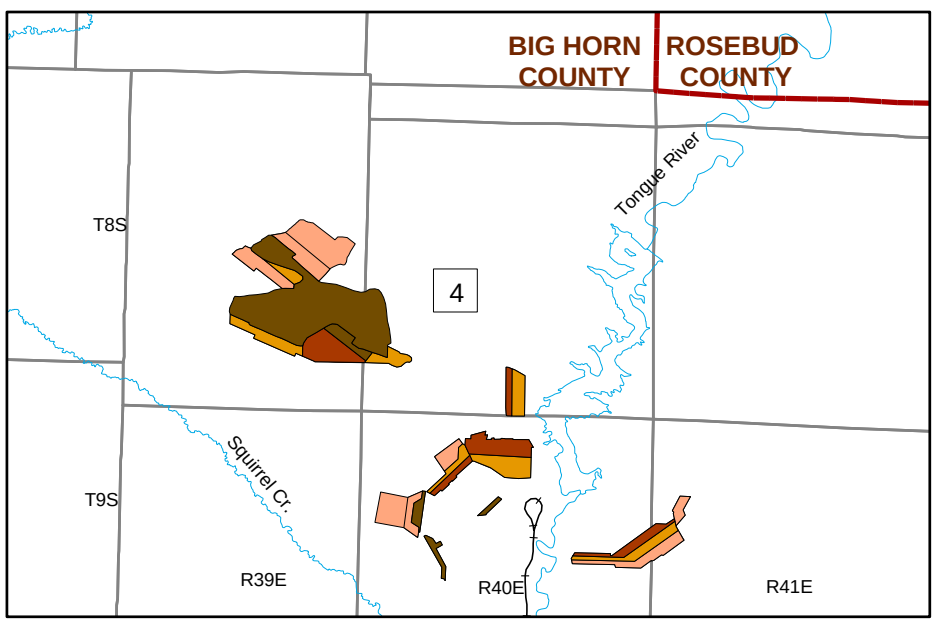
Figure A-2

Projected Wyoming Coal Development Upper Scenario

07/20/05







Legend

Lower Scenario

Years

- 2005
- 2010
- 2015
- 2020

Coal Mine Subregions

- 4 Subregion 4 (Sheridan/Decker)
- 5 Subregion 5 (Ashland/Colstrip)

N
W E
S

0 2 4 6 Miles

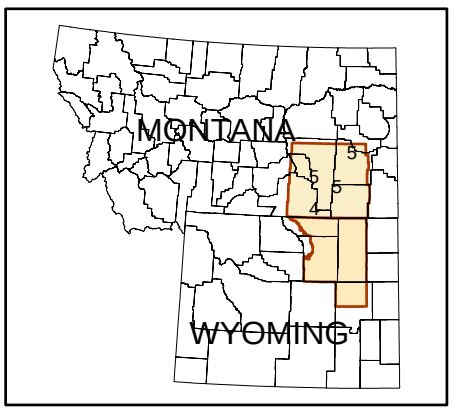
0 2 4 6 Kilometers

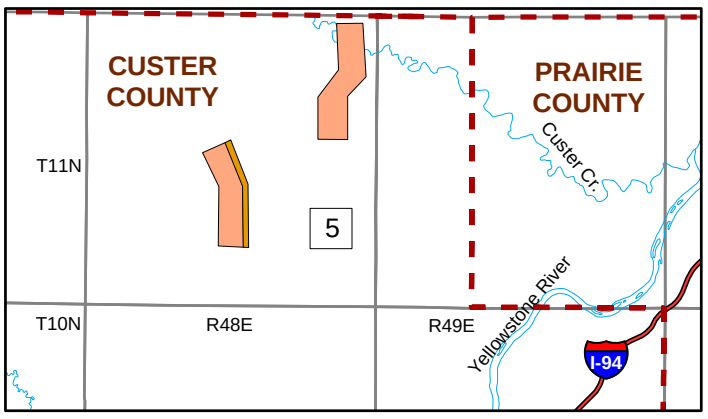
Powder River Basin Coal Review

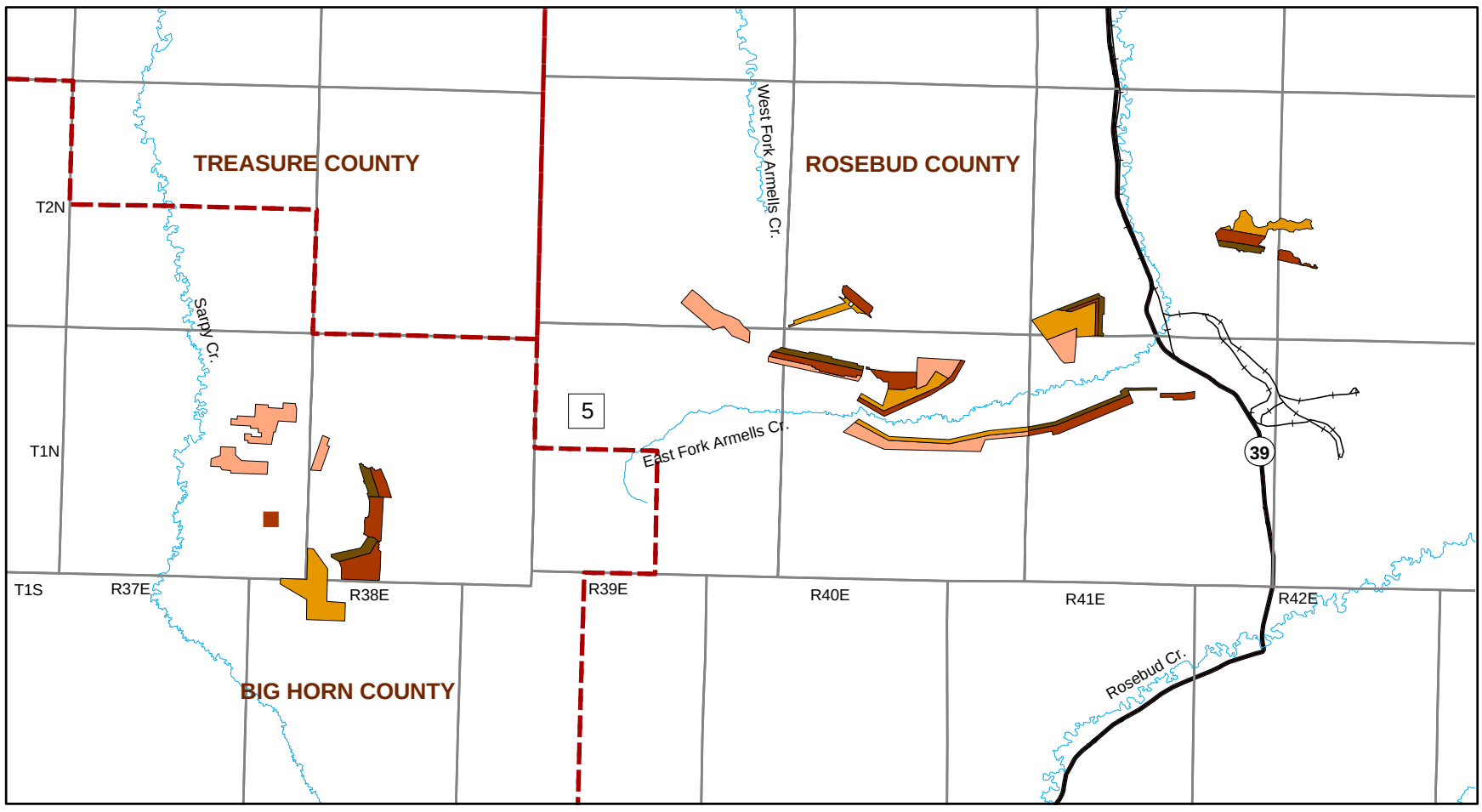
Figure A-3

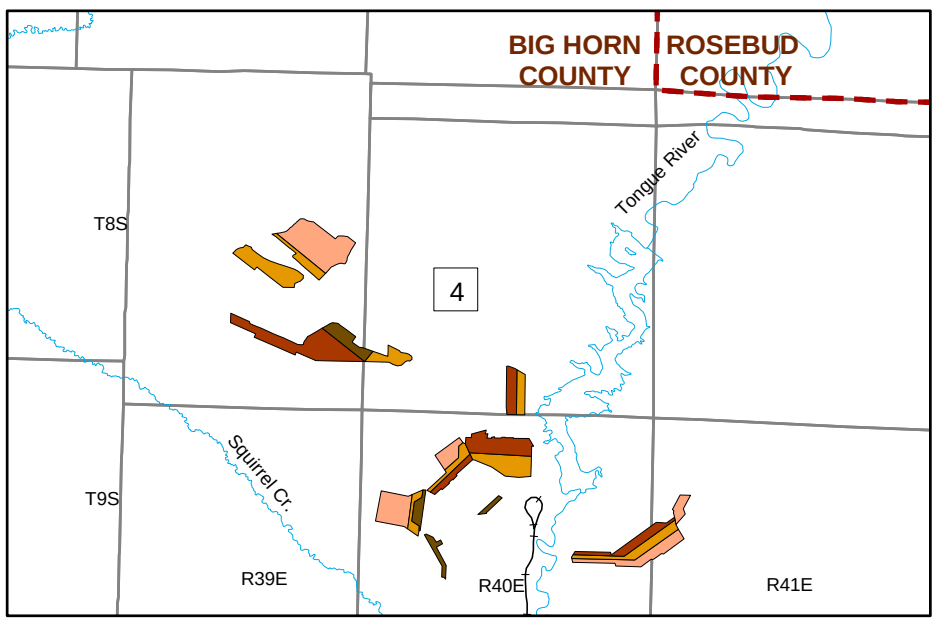
Projected Montana Coal Development Lower Scenario

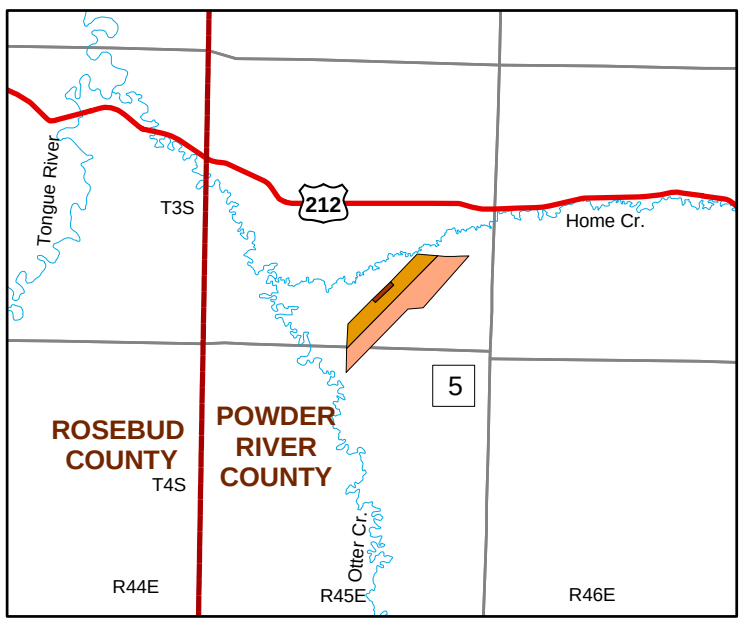
07/20/05











Legend

Upper Scenario

Years

- 2005
- 2010
- 2015
- 2020

Coal Mine Subregions

- 4 Subregion 4 (Sheridan/Decker)
- 5 Subregion 5 (Ashland/Colstrip)

N W E S

0 2 4 6 Miles

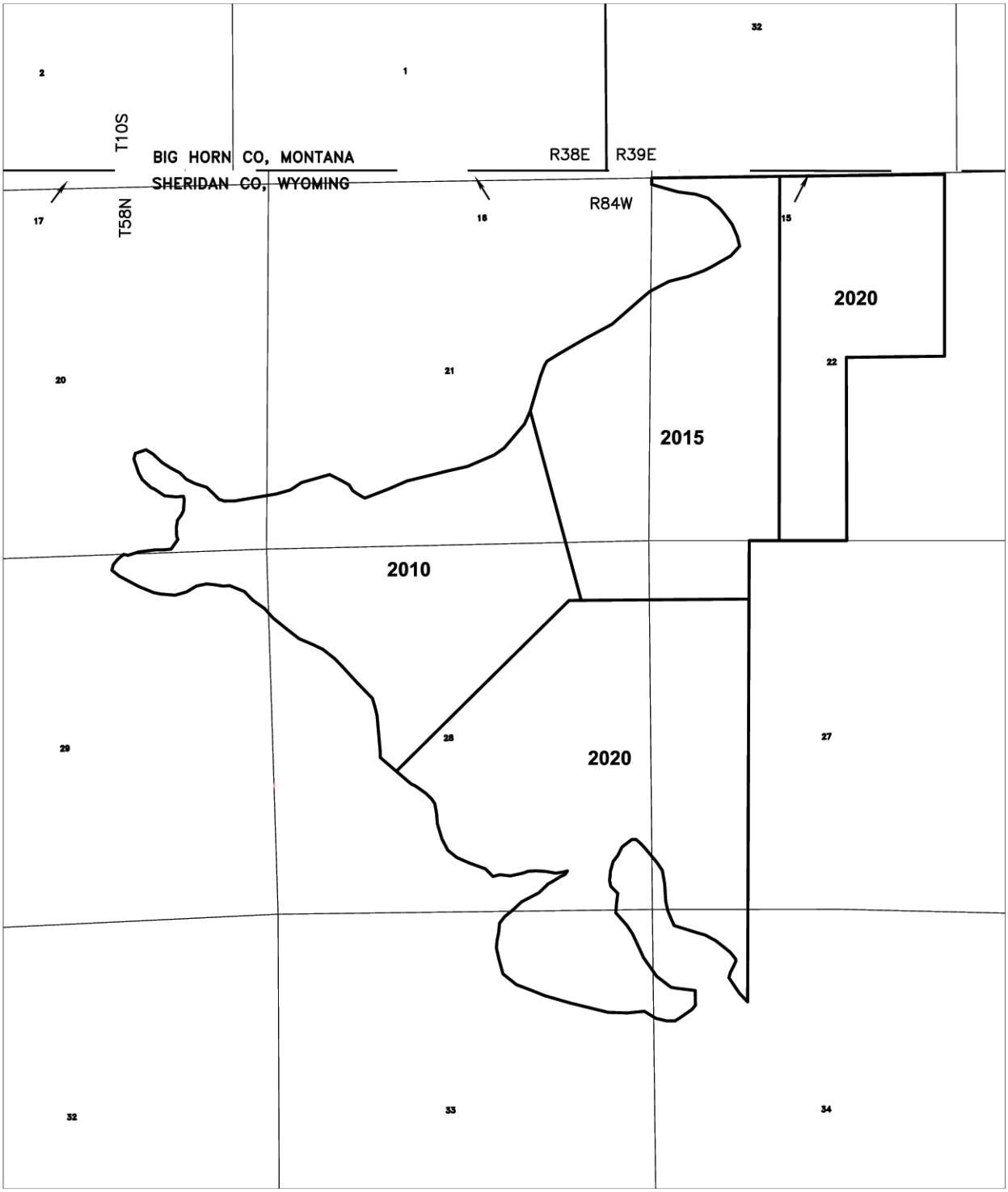
0 2 4 6 Kilometers

Powder River Basin Coal Review

Figure A-4

Projected Montana Coal Development Upper Scenario

07/20/05



LEGEND:

RESERVE DEVELOPMENT

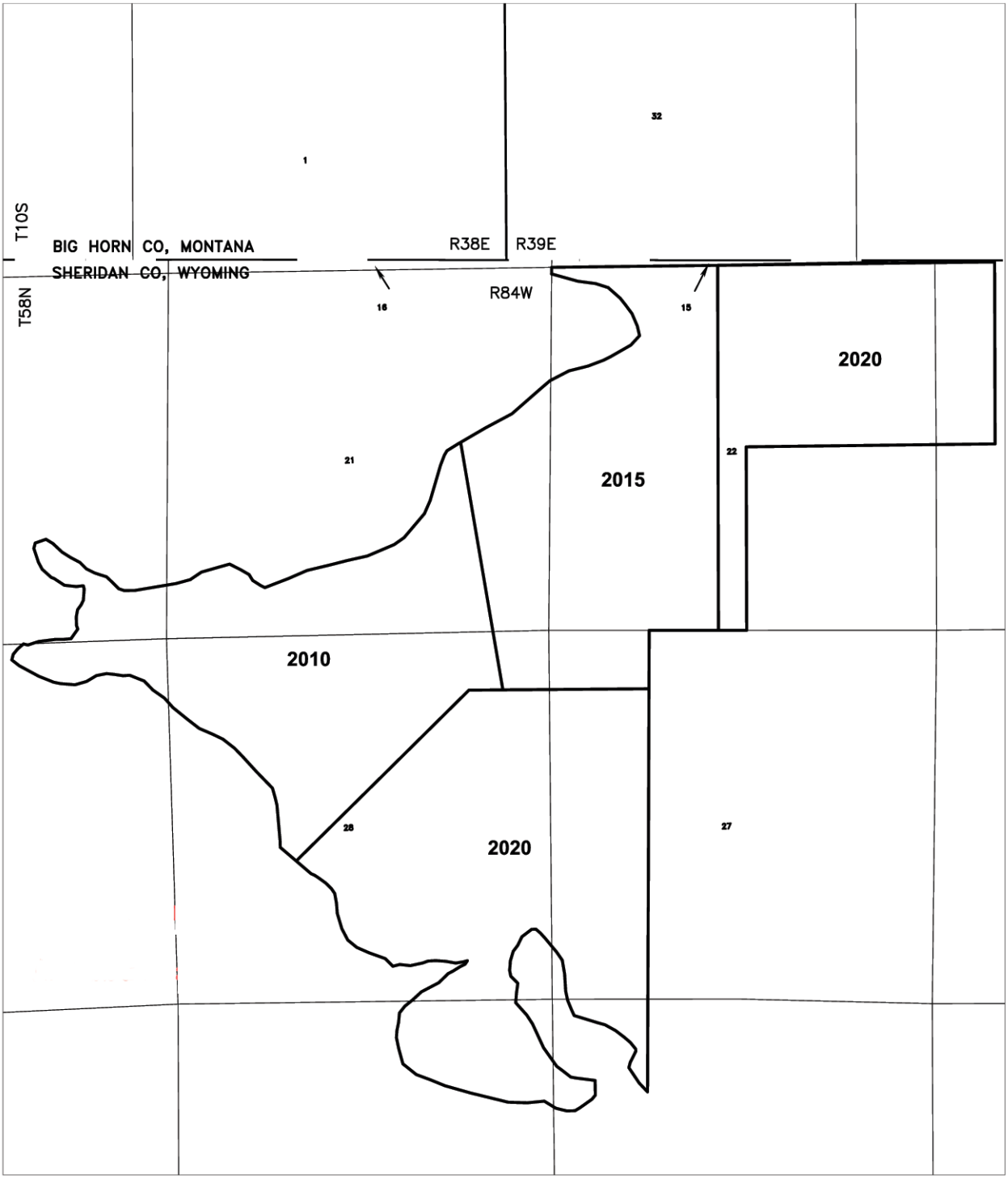
SCALE IN FEET

1,000 0 1,000 2,000

Powder River Coal Review

Figure A-5

Wyoming Portion of Subregion 4
Lower Scenario



LEGEND:

RESERVE DEVELOPMENT

N

SCALE IN FEET

1,000 0 1,000 2,000

Powder River Coal Review

Figure A-6

Wyoming Portion of Subregion 4
Upper Scenario

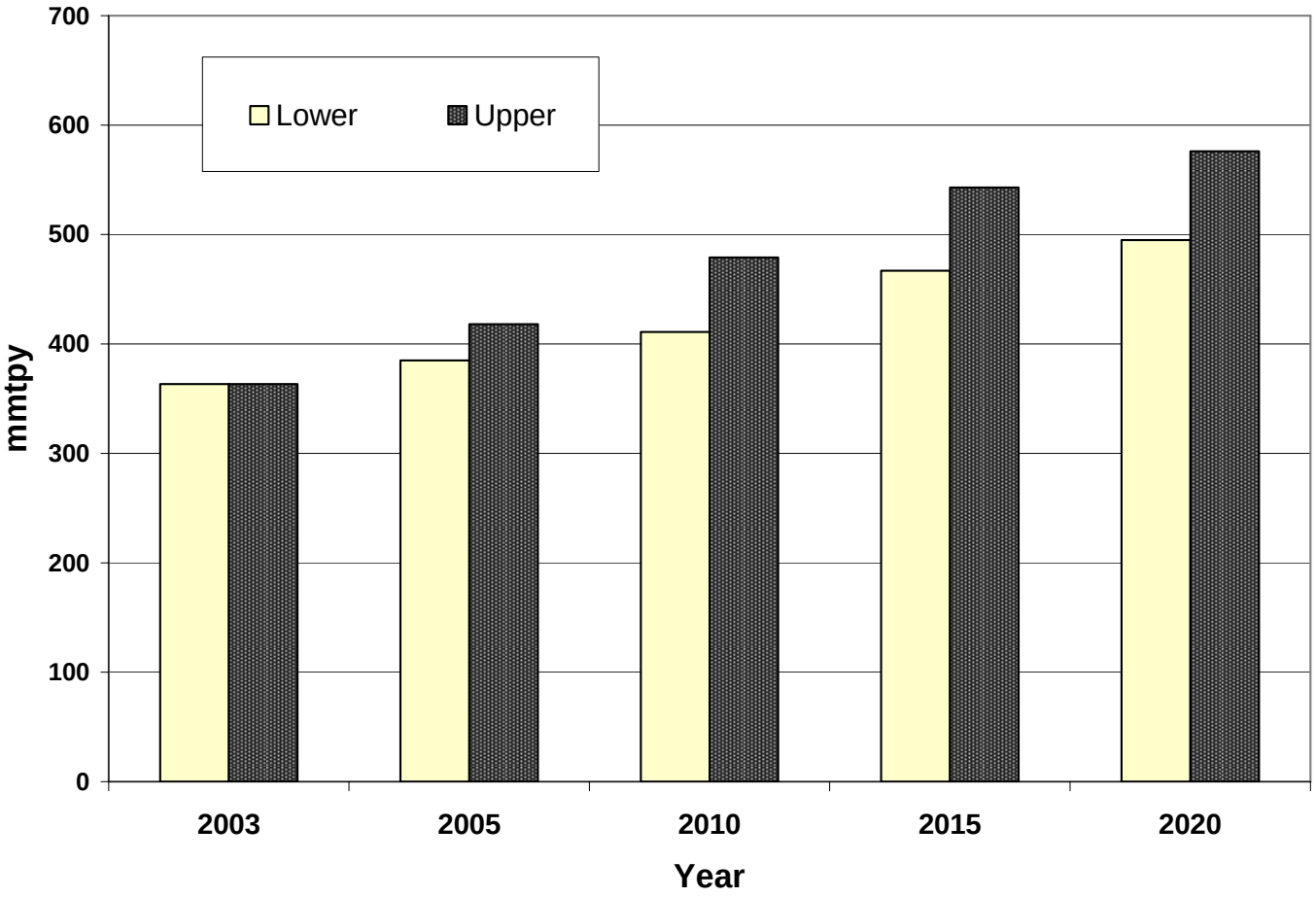


Figure A-7. Total Coal Production for Mines in Subregions 1, 2, and 3 – Lower and Upper Production Scenarios

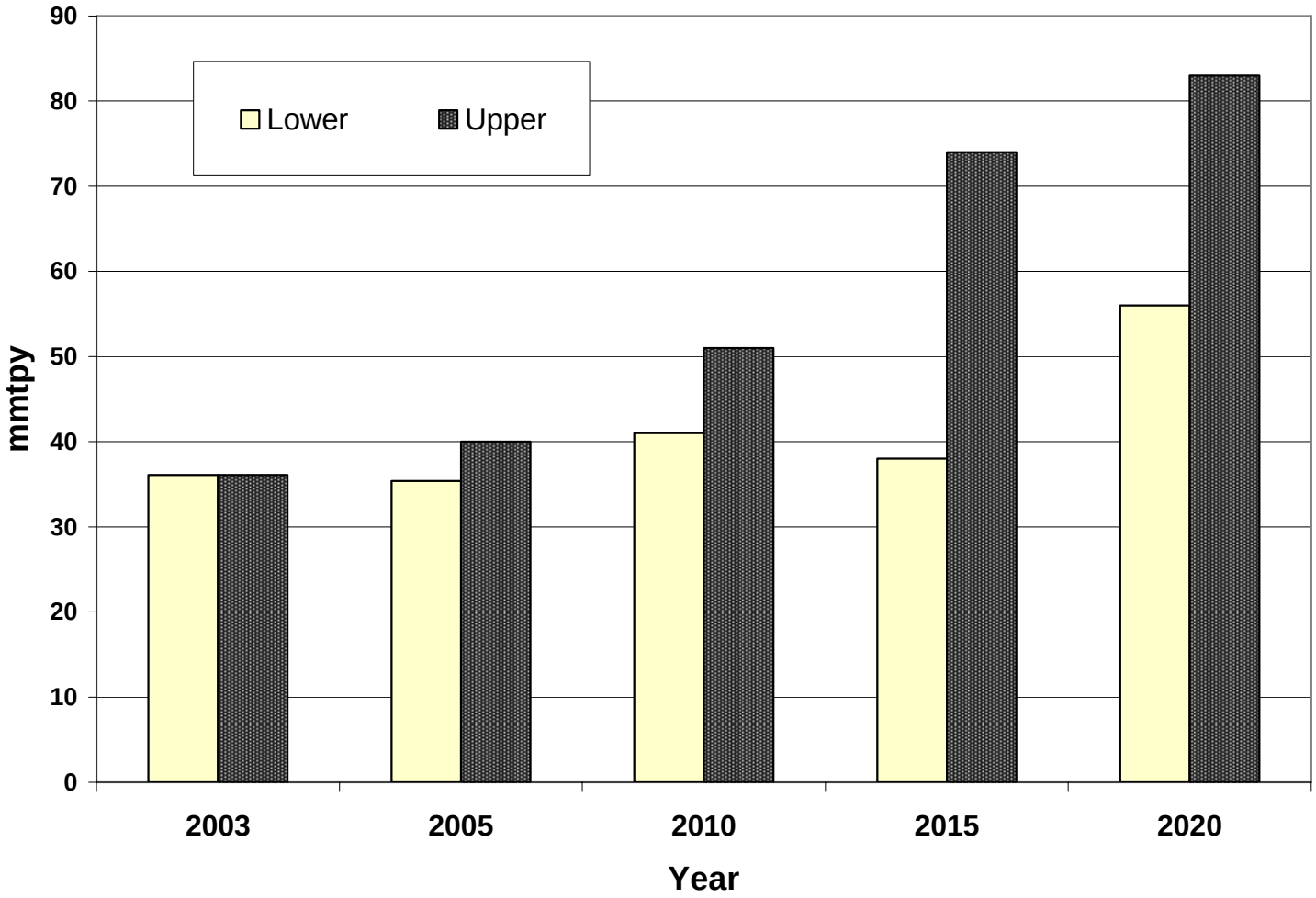


Figure A-8. Total Coal Production for Mines in Subregions 4 and 5 – Lower and Upper Production Scenarios