

Appendix F Population and Economic Information

**Table F-1 Population in Arizona Counties Residing on
Hopi Reservation, Navajo Nation, or Off Reservation ¹**

	Total Population	Population, within Hopi Reservation	Population, within Navajo Nation	Population Remainder (off Reservation)
Apache County	69,423	NA	54,521 (78.5%)	14,902 (21.5%)
Coconino County	116,320	1,024 (0.9%)	23,350 (20.1%)	91,946 (79.0%)
Navajo County	97,470	5,812 (6.0%)	26,881 (27.6%)	64,777 (66.5%)
State of Arizona	5,130,632 6,392,017 ²	6,836 (0.1%)	104,752 (2.0%)	5,019,044 (97.8%)

NOTES: ¹ U.S. Census Bureau 2000

² U.S. Census Bureau 2010

NA = not applicable

Population statistics from the 2010 U.S. Census are currently available at the statewide level only. The population growth of the State of Arizona from 2000 to 2010 is 24.6 percent. No data are available at the County or Tribal level.

Table F-2 County, Reservation, and Census Place Labor Force Characteristics

	Labor Force	Employment	Unemployment	Percent Unemployment Rate (%)
Apache County, Arizona				
2004	22,577	19,577	3,000	13.3
2003	21,874	18,794	3,079	14.1
Coconino County, Arizona				
2004	68,846	64,655	4,191	6.1
2003	66,940	62,642	4,298	6.4
Navajo County, Arizona				
2004	37,399	66,432	3,967	10.6
2003	35,938	32,055	3,882	10.8
Hopi Reservation				
2005-09	3,611	1,723	448	12.4
2004	3,457	2,828	629	18.2
2003	3,451	2,730	721	20.9
Navajo Nation (Arizona portion)				
2005-2009 ¹	54,714	21,229	7,824	14.3
2004	35,799	28,439	7,360	20.6
2003	35,890	27,449	8,441	23.5
Kayenta Census-designated Place				
2004	2,267	2,050	217	9.6
2003	2,179	1,966	213	9.8
Tuba City Census-designated Place				
2004	3,734	3,130	604	16.2
2003	3,652	3,033	619	16.9

	Labor Force	Employment	Unemployment	Percent Unemployment Rate (%)
State of Arizona				
2009	3,143,000	2,858,000	284,000	9.1
2008	3,133,000	2,960,000	172,000	5.5
2007	3,029,000	2,914,000	115,000	3.8
2006	2,977,000	2,854,000	123,000	4.1
2005	2,844,000	2,710,000	134,000	4.7
2004	2,762,612	2,630,998	131,614	4.8
2003	2,690,294	2,539,359	150,935	5.6

SOURCE: U.S. Census Bureau 1990, 2000, 2004, 2005-2009 American Community Survey; State of Arizona data for 2005-2009 taken from the U.S. Bureau of Labor Statistics website www.bls.gov

NOTES: ¹ The 2005-2009 labor statistics for the Navajo Nation include Tribal data from Arizona, New Mexico, and Utah.

Table F-3 Tribal Area and Agency Population

	Population (1990)	Population (2000)	Population (est. 2004)	Households (2000)¹
Tribal Areas				
Navajo Nation ^{2,3}	148,451	155,214	NA	40,933
Hopi Reservation, AZ ³	7,360	6,815	NA	1,938
Navajo Nation Agencies ^{4,5,6,7}				
Chinle	5,221	6,212	6,494	1,598
Western	23,787	28,434	29,904	7,143

NOTES: ¹ A household includes all the people who occupy a housing unit as their usual place of residence.

² Total population for Navajo Nation includes Arizona, New Mexico, and Utah.

³ U.S. Census Bureau 1990 (STF 1, DP-1), 2000 (SF1, P1 and SF1, P15).

⁴ 1990 chapter populations are for the American Indian population only.

⁵ 2000 and 2004 chapter populations include all races.

⁶ Navajo Nation Division of Community Development, 2005; U.S. Census Bureau 1990, 2000.

⁷ The population and household data for the Chinle and Western Agencies include only those chapters within the Area of Influence.

est. = estimated

NA = not applicable

Table F-4 Study Area Employment: Total and Percent Share by Industry Sector

Area	Industry as Percent (%) of Total Employment									
	Total Employment	Agriculture, Forestry, Fishing, and Hunting	Mining ¹	Construction	Manufacturing	Retail and Wholesale Trade	Transportation, Warehousing, and Utilities	Services and Information	FIRE and Rental/Leasing	Public Administration
Tribal Areas										
Hopi Reservation, AZ	2,280	0.3	0.7	10.5	5.5	8.6	1.4	45.2	1.8	26.0
Navajo Nation ²	51,363	1.2	2.7	12.4	4.4	9.5	6.0	51.1	2.0	10.6
Navajo Nation Chapters										
Black Mesa	60	0.0	0.0	21.7	0.0	0.0	0.0	78.3	0.0	0.0
Chilchinbito	147	0.0	18.4	0.0	0.0	15.6	12.2	38.1	0.0	15.6
Dennehotso	269	0.0	13.0	9.7	0.0	9.7	1.9	50.9	1.5	13.4
Forest Lake	27	0.0	0.0	29.6	0.0	0.0	33.3	37.0	0.0	0.0
Hard Rock	187	2.1	0.0	21.9	0.0	1.6	10.2	48.1	0.0	16.0
Inscription House	257	0.0	11.7	30.7	5.1	17.1	3.5	30.4	0.0	1.6
Kaibito	400	0.0	0.8	18.5	6.8	14.0	6.5	44.3	1.3	8.0
Kayenta	1,524	0.9	12.3	8.9	1.2	10.0	4.0	57.9	0.0	4.7
Oljato	515	0.0	5.0	13.8	4.7	12.0	8.3	52.0	0.0	4.1
Piñon	615	0.8	3.7	4.4	2.6	12.4	12.4	57.7	1.3	4.7
Rough Rock	135	0.0	3.7	15.6	0.0	0.0	0.0	70.4	0.0	10.4
Shonto	511	1.2	12.5	16.2	5.7	2.7	5.3	51.5	1.6	3.3
Tonalea	434	0.0	0.0	24.0	2.3	6.0	10.1	47.2	3.9	6.5
Tuba City	2,908	0.5	1.6	8.8	2.1	8.6	4.3	61.1	2.7	10.4

SOURCE: U.S. Census Bureau 2000 (SF3, QT-P24 and SF3, QT-P30)

NOTES: ¹ While the Tonalea Chapter reported no mining employment in the Census 2000, PWCC has supplied employee residence location figures for 2010 that indicate there are currently miners from that community.

² Total population for Navajo Nation includes Arizona, New Mexico, and Utah.
FIRE = Finance, Insurance, and Real Estate

Table F-5 State of Arizona and Navajo County Taxes Paid by PWCC

Year	Property Tax (\$ million)	Sales Tax (\$ million)	Total (\$ million)
2001	1.7	12.0	13.7
2002	1.5	18.4	19.9
2003	1.7	14.3	15.9
2004	1.7	16.4	18.1
2005	2.0	18.7	20.6
2006	1.2	12.9	14.1
2007	0.7	13.4	14.1
2008	1.6	17.0	18.6
2009	1.7	14.8	16.5
Average	1.53	15.32	16.83

SOURCES: Peabody Western Coal Company 2010; SWCA
Environmental Consultants 2005

**Table F-6 AML Reclamation Fund
Fees and Black Lung Excise Tax (2001 to 2010)**

Year	Reclamation (AML) Fees (\$ million)	Black Lung Excise Tax (\$ million)	Total (\$ million)¹
2001	3.6	5.5	9.1
2002	4.6	7.1	11.7
2003	4.3	6.7	10.9
2004	4.6	7.2	11.8
2005	2.9	4.5	7.4
2006	2.8	4.4	7.3
2007	2.8	4.4	7.1
2008	2.5	4.4	6.9
2009	2.4	4.1	6.5
2010 ²	2.5	4.3	6.7

SOURCE: Peabody Western Coal Company 2010

NOTES: ¹ Figures may not add to totals due to rounding.

² 2010 data are estimated by PWCC.

Table F-7 Coal Royalties and Bonuses Paid by PWCC (1987 to 2009)

Year	Coal Royalties				Coal Bonuses ²		
	Hopi Lease 5743 (\$ million)	Navajo Lease 8580 (\$ million)	Navajo Lease 9910 (\$ million)	Overall Total (\$ million) ¹	Hopi (\$ million)	Navajo (\$ million)	Total (\$ million)
1987	4.3	43.1 ³	4.3	51.7	NA	NA	NA
1988	8.1	13.3	8.1	29.5	NA	NA	NA
1989	8.6	12.9	8.6	30.1	NA	NA	NA
1990	7.9	13.4	7.9	29.2	NA	NA	NA
1991	9.4	14.7	9.4	33.5	NA	NA	NA
1992	8.7	15.6	8.7	33.0	NA	NA	NA
1993	8.9	15.7	8.9	33.5	NA	NA	NA
1994	10.7	11.5	10.8	33.0	NA	NA	NA
1995	11.8	9.4	11.8	33.0	NA	NA	NA
1996	10.0	11.1	9.8	30.9	NA	NA	NA
1997	9.9	12.9	9.9	32.7	NA	NA	NA
1998	10.7	15.2	9.8	35.7	1.8	2.0	3.8
1999	10.0	13.9	9.7	33.6	0.75	4.3	5.0
2000	10.7	14.4	10.6	35.7	0.75	3.5	4.3
2001	10.9	15.1	11.1	37.1	1.75	3.5	5.3
2002	10.7	16.0	10.5	37.2	0.75	3.5	4.3
2003	10.3	16.0	9.8	36.1	0.75	3.5	4.3
2004	12.0	15.0	12.0	39.0	1.75	3.5	5.3
2005	14.7	16.7	14.0	45.4	0.75	3.5	4.3
2006	13.3	4.3	12.9	30.5	10.5 ⁴	14.0 ⁴	24.4 ⁴
2007	10.3	9.0	9.9	29.2	NA	3.5	3.5
2008	10.3	14.4	10.0	34.7	NA	NA	NA
2009 ⁵	13.1	7.9	12.1	33.1	NA	NA	NA
Total ¹	235.3	331.5	230.6	797.4	19.6	44.8	64.2
Average (year)	10.2	14.4	10.0	34.7	2.2	4.5	6.4
2005-2009 Total ¹	61.7	52.3	58.9	172.9	11.3	21.0	32.2
2005-2009 Average (year)	12.3	10.5	11.8	34.6	5.6	7.0	10.7

SOURCE: Peabody Western Coal Company 2010

NOTES: ¹ Figures may not add to totals due to rounding.

² Bonuses began in 1998.

³ The \$43.1 million coal-royalty payment included an adjustment for royalty rates back to 1984.

⁴ Navajo/Hopi Lease Extension Bonus Payment of \$20,921,466 paid in 2006.

⁵ Coal bonuses for years 2007-2009 are subject to agreements awaiting Tribal and Federal approvals.

NA = not applicable

Table F-8 Water Use Fees Paid by PWCC (1987 to 2009)

Year	Hopi (\$ million)	Navajo (\$ million)	Total (\$ million) ¹
1987	0.02	0.02	0.04
1988	1.5	1.5	3.0
1989	1.6	1.6	3.2
1990	1.3	1.3	2.6
1991	1.4	1.4	2.8
1992	1.7	1.7	3.4
1993	1.6	1.6	3.2
1994	1.6	1.6	3.2
1995	1.8	1.8	3.6
1996	1.9	1.9	3.8
1997	1.9	1.9	3.8
1998	1.9	1.9	3.8
1999	1.9	1.9	3.8
2000	2.1	2.1	4.2
2001	2.2	2.2	4.4
2002	2.3	2.3	4.6
2003	2.3	2.3	4.6
2004	2.2	2.2	4.4
2005	2.2	2.2	4.4
2006	1.5	1.5	3.0
2007	0.5	0.5	1.0
2008	0.5	0.5	1.0
2009	0.6	0.6	1.2
Total ¹	36.5	36.5	73.0
Average (year)	1.6	1.6	3.2
2005-2009 Total ¹	5.3	5.3	10.6
2005-2009 Average (year)	1.1	1.1	2.1

SOURCE: Peabody Western Coal Company 2010

NOTES: ¹ Figures may not add to totals due to rounding.

The grand total of all payments made to the tribes from 1987 to 2009 is shown in Table F-9.

Table F-9 Total Annual Payments to Navajo Nation and Hopi Tribe (1987 to 2009) ^{2,3}

Year	Hopi Tribe (\$ million)	Navajo Nation (\$ million)
1987	4.3	47.4
1988	9.6	22.9
1989	10.2	23.1
1990	9.2	22.6
1991	10.8	25.5
1992	10.4	26.0
1993	10.5	26.2
1994	12.3	23.9
1995	13.6	23.0
1996	11.9	22.8
1997	11.8	24.7
1998	14.4	28.9
1999	12.7	29.8
2000	13.6	30.6
2001	14.9	31.9
2002	13.8	32.3
2003	13.4	31.6
2004	16.0	32.7
2005	17.7	36.4
2006	25.3	32.7
2007	10.8	22.9
2008	10.8	24.9
2009	13.7	20.6
Total ¹	291.4	643.4
Average (year)	12.7	28.0
2005-2009 Total ¹	78.3	137.5
2005-2009 Average (year)	15.7	27.5

SOURCE: Peabody Western Coal Company 2010

NOTES: ¹ Figures may not add to totals due to rounding.

² Total of the annual payments detailed in Table D-16 and Table D-17.

³ Total does not include student scholarships nor grant payments made to the tribes by the Federal government from the Abandoned Mine Land Reclamation Fund.

Table F-10 Electric Payments to NTUA (1987-2010)

Year	Kayenta Mine Payments (\$ million)	Total NTUA Electric Revenue (\$ million)	NTUA Revenue from PWCC (%)¹	Total NTUA Revenue (\$ million)	Total NTUA Revenue from PWCC (%)¹
1987	4.5	27.3	16.4	40.5	11.0
1988	5.5	29.4	18.6	42.7	12.8
1989	5.1	27.6	18.3	41.4	12.2
1990	5.2	29.3	17.7	43.8	11.8
1991	5.1	30.0	17.1	47.5	10.8
1992	5.2	31.7	16.5	49.3	10.6
1993	5.8	33.9	17.2	53.4	10.9
1994	6.3	35.4	17.8	53.2	11.9
1995	6.0	37.0	16.3	54.6	11.1
1996	6.1	37.9	16.0	56.7	10.7
1997	6.0	38.9	15.4	63.0	9.5
1998	6.1	39.7	15.2	62.8	9.6
1999	5.7	37.4	15.3	57.4	9.9
2000	5.9	43.8	13.5	67.5	8.8
2001	7.0	49.4	14.2	76.1	9.2
2002	6.0	43.8	13.7	66.5	9.0
2003	5.9	47.2	12.5	70.2	8.4
2004	6.0	47.5	12.6	71.8	8.3
2005	7.0	NA	NA	NA	NA
2006	6.9	NA	NA	NA	NA
2007	7.0	NA	NA	NA	NA
2008	8.4	NA	NA	NA	NA
2009	8.9	NA	NA	NA	NA
2010 ²	9.9	NA	NA	NA	NA

SOURCES: Peabody Western Coal Company 2010, SWCA Environmental Consultants 2005

NOTES: ¹ Figures may not add to totals due to rounding.

² 2010 data are estimated by PWCC.

NA = not applicable