Annex 3D. Agricultural Residue Burning (IPCC 3C1B)
to the Technical Support Document for the 2000-2011 California's Greenhouse Gas Emissions Inventory

Back to main document: http://www.arb.ca.gov/cc/inventory/doc/methods_00-11/ghg_inventory_00-11_technical_support_document.pdf

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

IPCC category = 3C1b — Aggregate Sources and Non-CO2 Emissions Sources on Land - Emissions from Biomass Burning - Biomass Burning in Croplands

Activity = Crop acreage burned - Almond

- Variable Name -	- Year -	- Value and Units -	- Reference -
Crop acreage burned - Almond	2000	428,400 acre	Calculation, see text
Crop acreage burned - Almond	2001	445,200 acre	Calculation, see text
Crop acreage burned - Almond	2002	457,800 acre	Calculation, see text
Crop acreage burned - Almond	2003	462,000 acre	Calculation, see text
Crop acreage burned - Almond	2004	478,800 acre	Calculation, see text
Crop acreage burned - Almond	2005	495,600 acre	Calculation, see text
Crop acreage burned - Almond	2006	512,400 acre	Calculation, see text
Crop acreage burned - Almond	2007	537,600 acre	Calculation, see text
Crop acreage burned - Almond	2008	571,200 acre	Calculation, see text
Crop acreage burned - Almond	2009	604,800 acre	Calculation, see text
Crop acreage burned - Almond	2010	621,600 acre	Calculation, see text
Crop acreage burned - Almond	2011	638,400 acre	Calculation, see text
CH4 emission factor	2000	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2001	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2002	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2003	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2004	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2005	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2006	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2007	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2008	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2009	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2010	1.170E-03	Jenkins et al. 1996
CH4 emission factor	2011	1.170E-03	Jenkins et al. 1996
CO2 emission factor	2000	1.83	Jenkins et al. 1996
CO2 emission factor	2001	1.83	Jenkins et al. 1996
CO2 emission factor	2002	1.83	Jenkins et al. 1996
CO2 emission factor	2003	1.83	Jenkins et al. 1996
CO2 emission factor	2004	1.83	Jenkins et al. 1996
CO2 emission factor	2005	1.83	Jenkins et al. 1996
CO2 emission factor	2006	1.83	Jenkins et al. 1996
CO2 emission factor	2007	1.83	Jenkins et al. 1996
CO2 emission factor	2008	1.83	Jenkins et al. 1996
CO2 emission factor	2009	1.83	Jenkins et al. 1996
CO2 emission factor	2010	1.83	Jenkins et al. 1996
CO2 emission factor	2011	1.83	Jenkins et al. 1996
Crop acreage	2000	510,000 acre	USDA, 2013d
Crop acreage	2001	530,000 acre	USDA, 2013d
Crop acreage	2002	545,000 acre	USDA, 2013d
Crop acreage	2003	550,000 acre	USDA, 2013d
Crop acreage	2004	570,000 acre	USDA, 2013d
Crop acreage	2005	590,000 acre	USDA, 2013d
Crop acreage	2006	610,000 acre	USDA, 2013d
Crop acreage	2007	640,000 acre	USDA, 2013d
Crop acreage	2008	680,000 acre	USDA, 2013d

Crop acreage	2009	720,000 acre	USDA, 2013d
Crop acreage	2010	740,000 acre	USDA, 2013d
Crop acreage	2011	760,000 acre	USDA, 2013d
Crop residue	2000	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2001	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2002	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2003	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2004	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2005	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2006	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2007	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2008	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2009	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2010	1,890,000 g / ha	Jenkins et al. 1992
Crop residue	2011	1,890,000 g / ha	Jenkins et al. 1992
Fraction of acreage burned	2000	0.84	Jenkins et al. 1992
Fraction of acreage burned	2001	0.84	Jenkins et al. 1992
Fraction of acreage burned	2002	0.84	Jenkins et al. 1992
Fraction of acreage burned	2003	0.84	Jenkins et al. 1992
Fraction of acreage burned	2004	0.84	Jenkins et al. 1992
Fraction of acreage burned	2005	0.84	Jenkins et al. 1992
Fraction of acreage burned	2006	0.84	Jenkins et al. 1992
Fraction of acreage burned	2007	0.84	Jenkins et al. 1992
Fraction of acreage burned	2008	0.84	Jenkins et al. 1992
Fraction of acreage burned	2009	0.84	Jenkins et al. 1992
Fraction of acreage burned	2010	0.84	Jenkins et al. 1992
Fraction of acreage burned	2011	0.84	Jenkins et al. 1992
N2O emission factor	2000	2.000E-04	Jenkins et al. 1996
N2O emission factor	2001	2.000E-04	Jenkins et al. 1996
N2O emission factor	2002	2.000E-04	Jenkins et al. 1996
N2O emission factor	2003	2.000E-04	Jenkins et al. 1996
N2O emission factor	2004	2.000E-04	Jenkins et al. 1996
N2O emission factor	2005	2.000E-04	Jenkins et al. 1996
N2O emission factor	2006	2.000E-04	Jenkins et al. 1996
N2O emission factor	2007	2.000E-04	Jenkins et al. 1996
N2O emission factor	2008	2.000E-04	Jenkins et al. 1996
N2O emission factor	2009	2.000E-04	Jenkins et al. 1996
N2O emission factor	2010	2.000E-04	Jenkins et al. 1996
N2O emission factor	2011	2.000E-04	Jenkins et al. 1996

Activity = Crop acreage burned - Barley

- Variable Name -	*- Year -*	*- Value and Units -*	*- Reference -*
Crop acreage burned - Barley	2000	6,650 acre	Calculation, see text
Crop acreage burned - Barley	2001	7,700 acre	Calculation, see text
Crop acreage burned - Barley	2002	5,250 acre	Calculation, see text
Crop acreage burned - Barley	2003	4,060 acre	Calculation, see text
Crop acreage burned - Barley	2004	5,250 acre	Calculation, see text
Crop acreage burned - Barley	2005	4,200 acre	Calculation, see text
Crop acreage burned - Barley	2006	4,550 acre	Calculation, see text
Crop acreage burned - Barley	2007	2,800 acre	Calculation, see text
Crop acreage burned - Barley	2008	4,200 acre	Calculation, see text
Crop acreage burned - Barley	2009	3,850 acre	Calculation, see text
Crop acreage burned - Barley	2010	5,250 acre	Calculation, see text
Crop acreage burned - Barley	2011	5,250 acre	Calculation, see text
CH4 emission factor	2000	2.470E-03	Jenkins et al. 1996

CH4 emission factor	2001	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2002	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2003	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2004	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2005	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2006	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2007	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2008	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2009	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2010	2.470E-03	Jenkins et al. 1996
CH4 emission factor	2011	2.470E-03	Jenkins et al. 1996
CO2 emission factor	2000	1.17	Jenkins et al. 1996
CO2 emission factor	2001	1.17	Jenkins et al. 1996
CO2 emission factor	2002	1.17	Jenkins et al. 1996
CO2 emission factor	2003	1.17	Jenkins et al. 1996
CO2 emission factor	2004	1.17	Jenkins et al. 1996
CO2 emission factor	2005	1.17	Jenkins et al. 1996
CO2 emission factor	2006	1.17	Jenkins et al. 1996
CO2 emission factor	2007	1.17	Jenkins et al. 1996
CO2 emission factor	2008	1.17	Jenkins et al. 1996
CO2 emission factor	2009	1.17	Jenkins et al. 1996
CO2 emission factor	2010	1.17	Jenkins et al. 1996
CO2 emission factor	2011	1.17	Jenkins et al. 1996
Crop acreage	2000	95,000 acre	USDA, 2013b
Crop acreage	2001	110,000 acre	USDA, 2013b
Crop acreage	2002	75,000 acre	USDA, 2013b
Crop acreage	2003	58,000 acre	USDA, 2013b
Crop acreage	2004	75,000 acre	USDA, 2013b
Crop acreage	2005	60,000 acre	USDA, 2013b
Crop acreage	2006	65,000 acre	USDA, 2013b
Crop acreage	2007	40,000 acre	USDA, 2013b
Crop acreage	2008	60,000 acre	USDA, 2013b
Crop acreage	2009	55,000 acre	USDA, 2013b
Crop acreage	2010	75,000 acre	USDA, 2013b
Crop acreage	2011	75,000 acre	USDA, 2013b
Crop residue	2000	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2001	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2002	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2003	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2004	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2005	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2006	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2007	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2008	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2009	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2010	2,510,000 g / ha	Jenkins et al. 1992
Crop residue	2011	2,510,000 g / ha	Jenkins et al. 1992
Fraction of acreage burned	2000	0.07	Jenkins et al. 1992
Fraction of acreage burned	2001	0.07	Jenkins et al. 1992
Fraction of acreage burned	2002	0.07	Jenkins et al. 1992
Fraction of acreage burned	2003	0.07	Jenkins et al. 1992
Fraction of acreage burned	2004	0.07	Jenkins et al. 1992
Fraction of acreage burned	2005	0.07	Jenkins et al. 1992
Fraction of acreage burned	2006	0.07	Jenkins et al. 1992
Fraction of acreage burned	2007	0.07	Jenkins et al. 1992

Fraction of acreage burned	2008	0.07	Jenkins et al. 1992
Fraction of acreage burned	2009	0.07	Jenkins et al. 1992
Fraction of acreage burned	2010	0.07	Jenkins et al. 1992
Fraction of acreage burned	2011	0.07	Jenkins et al. 1992
N2O emission factor	2000	2.000E-04	Jenkins et al. 1996
N2O emission factor	2001	2.000E-04	Jenkins et al. 1996
N2O emission factor	2002	2.000E-04	Jenkins et al. 1996
N2O emission factor	2003	2.000E-04	Jenkins et al. 1996
N2O emission factor	2004	2.000E-04	Jenkins et al. 1996
N2O emission factor	2005	2.000E-04	Jenkins et al. 1996
N2O emission factor	2006	2.000E-04	Jenkins et al. 1996
N2O emission factor	2007	2.000E-04	Jenkins et al. 1996
N2O emission factor	2008	2.000E-04	Jenkins et al. 1996
N2O emission factor	2009	2.000E-04	Jenkins et al. 1996
N2O emission factor	2010	2.000E-04	Jenkins et al. 1996
N2O emission factor	2011	2.000E-04	Jenkins et al. 1996

Activity = Crop acreage burned - Corn

- Variable Name -	*- Year -*	*- Value and Units -*	*- Reference -*
Crop acreage burned - Corn	2000	6,150 acre	Calculation, see text
Crop acreage burned - Corn	2001	4,800 acre	Calculation, see text
Crop acreage burned - Corn	2002	4,500 acre	Calculation, see text
Crop acreage burned - Corn	2003	4,200 acre	Calculation, see text
Crop acreage burned - Corn	2004	4,500 acre	Calculation, see text
Crop acreage burned - Corn	2005	3,900 acre	Calculation, see text
Crop acreage burned - Corn	2006	3,300 acre	Calculation, see text
Crop acreage burned - Corn	2007	5,700 acre	Calculation, see text
Crop acreage burned - Corn	2008	5,100 acre	Calculation, see text
Crop acreage burned - Corn	2009	4,800 acre	Calculation, see text
Crop acreage burned - Corn	2010	5,400 acre	Calculation, see text
Crop acreage burned - Corn	2011	4,500 acre	Calculation, see text
CH4 emission factor	2000	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2001	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2002	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2003	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2004	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2005	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2006	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2007	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2008	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2009	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2010	1.750E-03	Jenkins et al. 1996
CH4 emission factor	2011	1.750E-03	Jenkins et al. 1996
CO2 emission factor	2000	1.31	Jenkins et al. 1996
CO2 emission factor	2001	1.31	Jenkins et al. 1996
CO2 emission factor	2002	1.31	Jenkins et al. 1996
CO2 emission factor	2003	1.31	Jenkins et al. 1996
CO2 emission factor	2004	1.31	Jenkins et al. 1996
CO2 emission factor	2005	1.31	Jenkins et al. 1996
CO2 emission factor	2006	1.31	Jenkins et al. 1996
CO2 emission factor	2007	1.31	Jenkins et al. 1996
CO2 emission factor	2008	1.31	Jenkins et al. 1996
CO2 emission factor	2009	1.31	Jenkins et al. 1996
CO2 emission factor	2010	1.31	Jenkins et al. 1996
CO2 emission factor	2011	1.31	Jenkins et al. 1996

Crop acreage	2000	205,000 acre	USDA, 2013b
Crop acreage	2001	160,000 acre	USDA, 2013b
Crop acreage	2002	150,000 acre	USDA, 2013b
Crop acreage	2003	140,000 acre	USDA, 2013b
Crop acreage	2004	150,000 acre	USDA, 2013b
Crop acreage	2005	130,000 acre	USDA, 2013b
Crop acreage	2006	110,000 acre	USDA, 2013b
Crop acreage	2007	190,000 acre	USDA, 2013b
Crop acreage	2008	170,000 acre	USDA, 2013b
Crop acreage	2009	160,000 acre	USDA, 2013b
Crop acreage	2010	180,000 acre	USDA, 2013b
Crop acreage	2011	150,000 acre	USDA, 2013b
Crop residue	2000	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2001	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2002	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2003	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2004	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2005	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2006	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2007	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2008	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2009	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2010	9,060,000 g / ha	Jenkins et al. 1992
Crop residue	2011	9,060,000 g / ha	Jenkins et al. 1992
Fraction of acreage burned	2000	0.03	Jenkins et al. 1992
Fraction of acreage burned	2001	0.03	Jenkins et al. 1992
Fraction of acreage burned	2002	0.03	Jenkins et al. 1992
Fraction of acreage burned	2003	0.03	Jenkins et al. 1992
Fraction of acreage burned	2004	0.03	Jenkins et al. 1992
Fraction of acreage burned	2005	0.03	Jenkins et al. 1992
Fraction of acreage burned	2006	0.03	Jenkins et al. 1992
Fraction of acreage burned	2007	0.03	Jenkins et al. 1992
Fraction of acreage burned	2008	0.03	Jenkins et al. 1992
Fraction of acreage burned	2009	0.03	Jenkins et al. 1992
Fraction of acreage burned	2010	0.03	Jenkins et al. 1992
Fraction of acreage burned	2011	0.03	Jenkins et al. 1992
N2O emission factor	2000	1.000E-04	Jenkins et al. 1996
N2O emission factor	2001	1.000E-04	Jenkins et al. 1996
N2O emission factor	2002	1.000E-04	Jenkins et al. 1996
N2O emission factor	2003	1.000E-04	Jenkins et al. 1996
N2O emission factor	2004	1.000E-04	Jenkins et al. 1996
N2O emission factor	2005	1.000E-04	Jenkins et al. 1996
N2O emission factor	2006	1.000E-04	Jenkins et al. 1996
N2O emission factor	2007	1.000E-04	Jenkins et al. 1996
N2O emission factor	2008	1.000E-04	Jenkins et al. 1996
N2O emission factor	2009	1.000E-04	Jenkins et al. 1996
N2O emission factor	2010	1.000E-04	Jenkins et al. 1996
N2O emission factor	2011	1.000E-04	Jenkins et al. 1996

Activity = Crop acreage burned - Rice

- Variable Name -	*- Year -*	*- Value and Units -*	*- Reference -*
Crop acreage burned - Rice	2000	147,960 acre	Calculation, see text
Crop acreage burned - Rice	2001	70,650 acre	Calculation, see text
Crop acreage burned - Rice	2002	68,640 acre	Calculation, see text
Crop acreage burned - Rice	2003	70,980 acre	Calculation, see text
Crop acreage burned - Rice	2004	64,900 acre	Calculation, see text

Crop acreage burned - Rice	2005	84,160 acre	Calculation, see text
Crop acreage burned - Rice	2006	52,300 acre	Calculation, see text
Crop acreage burned - Rice	2007	85,280 acre	Calculation, see text
Crop acreage burned - Rice	2008	56,870 acre	Calculation, see text
Crop acreage burned - Rice	2009	61,160 acre	Calculation, see text
Crop acreage burned - Rice	2010	55,300 acre	Calculation, see text
Crop acreage burned - Rice	2011	58,000 acre	Calculation, see text
CH4 emission factor	2000	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2001	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2002	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2003	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2004	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2005	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2006	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2007	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2008	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2009	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2010	7.200E-04	Jenkins et al. 1996
CH4 emission factor	2011	7.200E-04	Jenkins et al. 1996
CO2 emission factor	2000	1.16	Jenkins et al. 1996
CO2 emission factor	2001	1.16	Jenkins et al. 1996
CO2 emission factor	2002	1.16	Jenkins et al. 1996
CO2 emission factor	2003	1.16	Jenkins et al. 1996
CO2 emission factor	2004	1.16	Jenkins et al. 1996
CO2 emission factor	2005	1.16	Jenkins et al. 1996
CO2 emission factor	2006	1.16	Jenkins et al. 1996
CO2 emission factor	2007	1.16	Jenkins et al. 1996
CO2 emission factor	2008	1.16	Jenkins et al. 1996
CO2 emission factor	2009	1.16	Jenkins et al. 1996
CO2 emission factor	2010	1.16	Jenkins et al. 1996
CO2 emission factor	2011	1.16	Jenkins et al. 1996
Crop acreage	2000	548,000 acre	USDA, 2013b
Crop acreage	2001	471,000 acre	USDA, 2013b
Crop acreage	2002	528,000 acre	USDA, 2013b
Crop acreage	2003	507,000 acre	USDA, 2013b
Crop acreage	2004	590,000 acre	USDA, 2013b
Crop acreage	2005	526,000 acre	USDA, 2013b
Crop acreage	2006	523,000 acre	USDA, 2013b
Crop acreage	2007	533,000 acre	USDA, 2013b
Crop acreage	2008	517,000 acre	USDA, 2013b
Crop acreage	2009	556,000 acre	USDA, 2013b
Crop acreage	2010	553,000 acre	USDA, 2013b
Crop acreage	2011	580,000 acre	USDA, 2013b
Crop residue	2000	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2001	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2002	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2003	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2004	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2005	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2006	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2007	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2008	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2009	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2010	6,750,000 g / ha	Jenkins et al. 1992
Crop residue	2011	6,750,000 g / ha	Jenkins et al. 1992

Fraction of acreage burned	2000	0.27	ARB, 2003
Fraction of acreage burned	2001	0.15	ARB, 2003
Fraction of acreage burned	2002	0.13	ARB, 2003
Fraction of acreage burned	2003	0.14	USEPA, 2008a
Fraction of acreage burned	2004	0.11	USEPA, 2008a
Fraction of acreage burned	2005	0.16	USEPA, 2010
Fraction of acreage burned	2006	0.1	USEPA, 2010
Fraction of acreage burned	2007	0.16	USEPA, 2010
Fraction of acreage burned	2008	0.11	USEPA, 2010
Fraction of acreage burned	2009	0.11	Assume equal to previous year
Fraction of acreage burned	2010	0.1	USEPA, 2012a
Fraction of acreage burned	2011	0.1	USEPA, 2013a
N2O emission factor	2000	2.000E-04	Jenkins et al. 1996
N2O emission factor	2001	2.000E-04	Jenkins et al. 1996
N2O emission factor	2002	2.000E-04	Jenkins et al. 1996
N2O emission factor	2003	2.000E-04	Jenkins et al. 1996
N2O emission factor	2004	2.000E-04	Jenkins et al. 1996
N2O emission factor	2005	2.000E-04	Jenkins et al. 1996
N2O emission factor	2006	2.000E-04	Jenkins et al. 1996
N2O emission factor	2007	2.000E-04	Jenkins et al. 1996
N2O emission factor	2008	2.000E-04	Jenkins et al. 1996
N2O emission factor	2009	2.000E-04	Jenkins et al. 1996
N2O emission factor	2010	2.000E-04	Jenkins et al. 1996
N2O emission factor	2011	2.000E-04	Jenkins et al. 1996

Activity = Crop acreage burned - Walnut

- Variable Name -	*- Year -*	*- Value and Units -*	*- Reference -*
Crop acreage burned - Walnut	2000	190,000 acre	Calculation, see text
Crop acreage burned - Walnut	2001	193,800 acre	Calculation, see text
Crop acreage burned - Walnut	2002	199,500 acre	Calculation, see text
Crop acreage burned - Walnut	2003	202,350 acre	Calculation, see text
Crop acreage burned - Walnut	2004	203,300 acre	Calculation, see text
Crop acreage burned - Walnut	2005	204,250 acre	Calculation, see text
Crop acreage burned - Walnut	2006	205,200 acre	Calculation, see text
Crop acreage burned - Walnut	2007	207,100 acre	Calculation, see text
Crop acreage burned - Walnut	2008	211,850 acre	Calculation, see text
Crop acreage burned - Walnut	2009	215,650 acre	Calculation, see text
Crop acreage burned - Walnut	2010	225,150 acre	Calculation, see text
Crop acreage burned - Walnut	2011	232,750 acre	Calculation, see text
CH4 emission factor	2000	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2001	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2002	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2003	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2004	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2005	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2006	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2007	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2008	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2009	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2010	1.640E-03	Jenkins et al. 1996
CH4 emission factor	2011	1.640E-03	Jenkins et al. 1996
CO2 emission factor	2000	1.64	Jenkins et al. 1996
CO2 emission factor	2001	1.64	Jenkins et al. 1996
CO2 emission factor	2002	1.64	Jenkins et al. 1996
CO2 emission factor	2003	1.64	Jenkins et al. 1996
CO2 emission factor	2004	1.64	Jenkins et al. 1996

CO2 emission factor	2005	1.64	Jenkins et al. 1996
CO2 emission factor	2006	1.64	Jenkins et al. 1996
CO2 emission factor	2007	1.64	Jenkins et al. 1996
CO2 emission factor	2008	1.64	Jenkins et al. 1996
CO2 emission factor	2009	1.64	Jenkins et al. 1996
CO2 emission factor	2010	1.64	Jenkins et al. 1996
CO2 emission factor	2011	1.64	Jenkins et al. 1996
Crop acreage	2000	200,000 acre	USDA, 2013d
Crop acreage	2001	204,000 acre	USDA, 2013d
Crop acreage	2002	210,000 acre	USDA, 2013d
Crop acreage	2003	213,000 acre	USDA, 2013d
Crop acreage	2004	214,000 acre	USDA, 2013d
Crop acreage	2005	215,000 acre	USDA, 2013d
Crop acreage	2006	216,000 acre	USDA, 2013d
Crop acreage	2007	218,000 acre	USDA, 2013d
Crop acreage	2008	223,000 acre	USDA, 2013d
Crop acreage	2009	227,000 acre	USDA, 2013d
Crop acreage	2010	237,000 acre	USDA, 2013d
Crop acreage	2011	245,000 acre	USDA, 2013d
Crop residue	2000	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2001	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2002	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2003	1,460,000 g / ha	Jenkins et al. 1992
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Crop residue	2005	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2006	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2007	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2008	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2009	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2010	1,460,000 g / ha	Jenkins et al. 1992
Crop residue	2011	1,460,000 g / ha	Jenkins et al. 1992
Fraction of acreage burned	2000	0.95	Jenkins et al. 1992
Fraction of acreage burned	2001	0.95	Jenkins et al. 1992
Fraction of acreage burned	2002	0.95	Jenkins et al. 1992
Fraction of acreage burned	2003	0.95	Jenkins et al. 1992
Fraction of acreage burned	2004	0.95	Jenkins et al. 1992
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Fraction of acreage burned	2008	0.95	Jenkins et al. 1992
Fraction of acreage burned	2009	0.95	Jenkins et al. 1992
Fraction of acreage burned	2010	0.95	Jenkins et al. 1992
Fraction of acreage burned	2011	0.95	Jenkins et al. 1992
N2O emission factor	2000	2.000E-04	Jenkins et al. 1996
N2O emission factor	2001	2.000E-04	Jenkins et al. 1996
N2O emission factor	2002	2.000E-04	Jenkins et al. 1996
N2O emission factor	2003	2.000E-04	Jenkins et al. 1996
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N2O emission factor	2008	2.000E-04	Jenkins et al. 1996
N2O emission factor	2009	2.000E-04	Jenkins et al. 1996
N2O emission factor	2010	2.000E-04	Jenkins et al. 1996
N2O emission factor	2011	2.000E-04	Jenkins et al. 1996

Activity = Crop acreage burned - Wheat

- Variable Name -	- Year -	- Value and Units -	- Reference -
Crop acreage burned - Wheat	2000	53,570 acre	Calculation, see text
Crop acreage burned - Wheat	2001	50,710 acre	Calculation, see text
Crop acreage burned - Wheat	2002	42,900 acre	Calculation, see text
Crop acreage burned - Wheat	2003	57,750 acre	Calculation, see text
Crop acreage burned - Wheat	2004	46,200 acre	Calculation, see text
Crop acreage burned - Wheat	2005	40,590 acre	Calculation, see text
Crop acreage burned - Wheat	2006	34,650 acre	Calculation, see text
Crop acreage burned - Wheat	2007	37,950 acre	Calculation, see text
Crop acreage burned - Wheat	2008	59,950 acre	Calculation, see text
Crop acreage burned - Wheat	2009	55,000 acre	Calculation, see text
Crop acreage burned - Wheat	2010	50,050 acre	Calculation, see text
Crop acreage burned - Wheat	2011	58,850 acre	Calculation, see text
CH4 emission factor	2000	1.820E-03	Jenkins et al. 1996
CH4 emission factor	2001	1.820E-03	Jenkins et al. 1996
CH4 emission factor	2002	1.820E-03	Jenkins et al. 1996
CH4 emission factor	2003	1.820E-03	Jenkins et al. 1996
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CH4 emission factor	2007	1.820E-03	Jenkins et al. 1996
CH4 emission factor	2008	1.820E-03	Jenkins et al. 1996
CH4 emission factor	2009	1.820E-03	Jenkins et al. 1996
CH4 emission factor	2010	1.820E-03	Jenkins et al. 1996
CH4 emission factor	2011	1.820E-03	Jenkins et al. 1996
CO2 emission factor	2000	1.19	Jenkins et al. 1996
CO2 emission factor	2001	1.19	Jenkins et al. 1996
CO2 emission factor	2002	1.19	Jenkins et al. 1996
CO2 emission factor	2003	1.19	Jenkins et al. 1996
CO2 emission factor	2004	1.19	Jenkins et al. 1996
CO2 emission factor	2005	1.19	Jenkins et al. 1996
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CO2 emission factor	2007	1.19	Jenkins et al. 1996
CO2 emission factor	2008	1.19	Jenkins et al. 1996
CO2 emission factor	2009	1.19	Jenkins et al. 1996
CO2 emission factor	2010	1.19	Jenkins et al. 1996
CO2 emission factor	2011	1.19	Jenkins et al. 1996
Crop acreage	2000	487,000 acre	USDA, 2013b
Crop acreage	2001	461,000 acre	USDA, 2013b
Crop acreage	2002	390,000 acre	USDA, 2013b
Crop acreage	2003	525,000 acre	USDA, 2013b
Crop acreage	2004	420,000 acre	USDA, 2013b
Crop acreage	2005	369,000 acre	USDA, 2013b
Crop acreage	2006	315,000 acre	USDA, 2013b
Crop acreage	2007	345,000 acre	USDA, 2013b
Crop acreage	2008	545,000 acre	USDA, 2013b
Crop acreage	2009	500,000 acre	USDA, 2013b
Crop acreage	2010	455,000 acre	USDA, 2013b
Crop acreage	2011	535,000 acre	USDA, 2013b
Crop residue	2000	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2001	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2002	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2003	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2004	3,660,000 g / ha	Jenkins et al. 1992

Crop residue	2005	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2006	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2007	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2008	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2009	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2010	3,660,000 g / ha	Jenkins et al. 1992
Crop residue	2011	3,660,000 g / ha	Jenkins et al. 1992
Fraction of acreage burned	2000	0.11	Jenkins et al. 1992
Fraction of acreage burned	2001	0.11	Jenkins et al. 1992
Fraction of acreage burned	2002	0.11	Jenkins et al. 1992
Fraction of acreage burned	2003	0.11	Jenkins et al. 1992
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Fraction of acreage burned	2009	0.11	Jenkins et al. 1992
Fraction of acreage burned	2010	0.11	Jenkins et al. 1992
Fraction of acreage burned	2011	0.11	Jenkins et al. 1992
N2O emission factor	2000	1.000E-04	Jenkins et al. 1996
N2O emission factor	2001	1.000E-04	Jenkins et al. 1996
N2O emission factor	2002	1.000E-04	Jenkins et al. 1996
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N2O emission factor	2009	1.000E-04	Jenkins et al. 1996
N2O emission factor	2010	1.000E-04	Jenkins et al. 1996
N2O emission factor	2011	1.000E-04	Jenkins et al. 1996