

## ***ANNEX 3 - Agriculture***

### 1.1 Dairy cows 1986–2015

	Population	Average gross energy intake	Weight	Milk yield	Pregnant	Digestibility of feed	Gross energy	VS daily excretion (average)	Nitrogen excretion rate
Unit	1000s	MJ/head/day	kg	kg/day	%	%	MJ/day	kg dm/head/day	kg/head/year
1986	237.460	216.1	511.4	7.7	70.9	62.0	216.1	4.5	82.1
1987	231.780	214.9	510.1	7.6	70.6	62.0	214.9	4.5	81.5
1988	230.180	215.1	510.3	7.6	70.6	62.0	215.1	4.5	81.6
1989	226.560	215.6	511.1	7.7	70.5	62.0	215.6	4.5	81.8
1990	225.350	215.2	510.3	7.6	70.7	62.0	215.2	4.5	81.6
1991	205.660	226.4	524.6	8.9	71.0	62.9	226.4	4.7	86.6
1992	212.970	217.6	512.1	7.8	70.7	62.1	217.6	4.6	82.3
1993	203.680	217.4	510.6	7.7	71.0	62.0	217.4	4.6	81.9
1994	197.420	222.8	517.7	8.3	70.6	62.4	222.8	4.6	84.1
1995	197.130	226.9	522.6	8.7	70.6	62.7	226.9	4.7	85.8
1996	154.740	242.2	542.7	10.5	70.7	63.9	242.2	4.8	92.7
1997	147.610	245.7	547.8	10.9	70.4	64.2	245.7	4.9	94.2
1998	146.500	248.7	551.9	11.2	70.1	64.5	248.7	4.9	95.5
1999	149.080	252.8	556.7	11.7	70.2	64.7	252.8	5.0	97.1
2000	140.240	261.6	568.0	12.7	70.3	65.4	261.6	5.0	101.1
2001	135.810	265.9	573.6	13.2	70.3	65.6	265.9	5.1	103.0
2002	139.980	274.5	585.8	14.2	70.3	66.3	274.5	5.2	107.1
2003	130.710	271.6	582.6	13.9	69.8	66.1	271.6	5.1	105.7
2004	134.010	267.3	576.9	13.3	69.4	65.8	267.3	5.1	103.5
2005	120.270	280.6	597.2	15.0	69.2	66.8	280.6	5.2	110.0
2006	112.510	284.1	605.2	15.6	68.9	67.2	284.1	5.2	112.4

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2007	116.390	285.0	606.2	15.7	68.7	67.3	285.0	5.2	112.6
2008	113.400	286.2	607.4	15.8	68.7	67.3	286.2	5.2	113.0
2009	113.100	280.9	600.9	15.2	68.4	67.0	280.9	5.2	110.6
2010	109.470	280.9	600.9	15.1	68.2	67.0	280.9	5.2	110.4
2011	109.070	281.0	601.3	15.1	68.0	67.0	281.0	5.2	110.4
2012	111.020	283.1	603.7	15.3	68.0	67.2	283.1	5.2	111.2
2013	109.570	280.1	599.5	14.9	67.7	67.0	280.1	5.2	109.6
2014	107.840	285.7	608.1	15.7	67.9	67.4	285.7	5.2	112.5
2015	112.840	282.1	604.0	15.3	67.9	67.2	282.1	5.2	111.2

**1.2 Non-dairy cows 1986–2015**

	Population	Average gross energy intake	Weight	Pregnant	Digestibility of feed	Gross energy	VS daily excretion (average)
Unit	1000s	MJ/head/day	kg	%	%	MJ/day	kg dm/head/day
1986	318.740	110.5	289.4	16.7	64.8	110.5	2.2
1987	316.840	110.4	289.1	16.7	64.9	110.4	2.2
1988	315.820	110.5	289.2	16.7	64.9	110.5	2.2
1989	319.490	110.6	289.4	16.7	65.0	110.6	2.1
1990	307.560	110.6	289.2	16.7	65.0	110.6	2.1
1991	273.210	111.6	292.2	16.7	65.2	111.6	2.2
1992	284.800	110.9	289.5	16.7	65.1	110.9	2.1
1993	265.870	111.0	289.2	16.7	65.1	111.0	2.1
1994	269.980	111.5	290.7	16.7	65.2	111.5	2.2
1995	283.220	111.9	291.8	16.7	65.3	111.9	2.2
1996	299.480	112.4	294.9	16.6	65.5	112.4	2.2
1997	263.110	112.8	296.0	16.7	65.6	112.8	2.2
1998	271.920	112.9	296.5	16.5	65.7	112.9	2.2
1999	285.840	113.2	297.4	16.5	65.8	113.2	2.2
2000	299.540	115.1	301.5	16.7	65.9	115.1	2.2
2001	288.490	116.8	304.9	17.4	66.0	116.8	2.2
2002	278.250	119.3	309.4	18.9	66.1	119.3	2.3
2003	264.350	118.7	307.9	19.2	66.1	118.7	2.2
2004	269.060	118.5	307.1	18.5	66.1	118.5	2.2
2005	275.290	120.6	314.4	17.6	66.4	120.6	2.3
2006	281.010	120.3	314.5	17.9	66.5	120.3	2.3

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2007	301.950	119.4	313.2	17.2	66.7	119.4	2.2
2008	294.020	118.7	312.3	17.3	66.6	118.7	2.2
2009	298.800	115.7	306.7	17.3	66.3	115.7	2.2
2010	296.800	114.4	304.4	17.1	66.3	114.4	2.2
2011	291.560	119.3	313.2	17.8	66.4	119.3	2.2
2012	292.540	119.6	314.7	16.6	66.4	119.6	2.2
2013	294.790	118.7	312.2	16.7	66.3	118.7	2.2
2014	299.940	119.0	312.7	17.4	66.3	119.0	2.2
2015	314.320	120.3	314.0	17.0	66.3	120.3	2.3

**1.3 Other cows 1986–2015**

	Population	Average gross energy intake	Weight	Pregnant	Digestibility of feed	Gross energy	VS daily excretion (average)
Unit	1000s	MJ/head/day	kg	%	%	MJ/day	kg dm/head/day
1991	5.000	203.5	516.9	71.0	62.4	203.5	4.2
1992	6.000	203.4	517.1	70.7	62.4	203.4	4.2
1993	8.000	203.5	516.8	71.0	62.4	203.5	4.2
1994	10.000	203.4	517.3	70.6	62.4	203.4	4.2
1995	15.190	203.4	517.3	70.6	62.4	203.4	4.2
1996	31.990	203.4	517.2	70.7	62.4	203.4	4.2
1997	35.000	203.3	517.6	70.4	62.4	203.3	4.2
1998	34.680	203.2	518.0	70.1	62.5	203.2	4.2
1999	36.510	203.2	517.9	70.2	62.4	203.2	4.2
2000	53.900	203.3	517.7	70.3	62.4	203.3	4.2
2001	52.780	203.3	517.7	70.3	62.4	203.3	4.2
2002	55.010	203.3	517.8	70.3	62.4	203.3	4.2
2003	55.170	203.1	518.4	69.8	62.5	203.1	4.2
2004	48.070	203.0	518.9	69.4	62.5	203.0	4.2
2005	56.960	202.9	519.2	69.2	62.5	202.9	4.2
2006	60.510	202.8	519.7	68.9	62.6	202.8	4.2
2007	61.250	202.8	519.9	68.7	62.6	202.8	4.2
2008	62.560	202.8	519.9	68.7	62.6	202.8	4.2
2009	60.970	202.7	520.4	68.4	62.6	202.7	4.2
2010	63.890	202.6	520.6	68.2	62.6	202.6	4.2

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2011	61.670	202.6	520.8	68.0	62.6	202.6	4.2
2012	56.500	202.6	520.8	68.0	62.6	202.6	4.2
2013	56.210	202.5	521.3	67.7	62.7	202.5	4.2
2014	60.480	202.1	522.9	66.6	62.8	202.1	4.2
2015	57.040	202.1	522.9	66.6	62.8	202.1	4.2