

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

### 1.1 Dairy cows 1986–2016

	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	237.459	216.1	511.4	7.7	70.9	62.0	216.1	4.5	82.1
1987	231.776	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	226.563	215.6	511.1	7.7	70.5	62.0	215.6	4.5	81.8
1990	225.346	215.2	510.3	7.6	70.7	62.0	215.2	4.5	81.6
1991	205.657	226.4	524.6	8.9	71.0	62.9	226.4	4.7	86.6
1992	212.969	217.6	512.1	7.8	70.7	62.1	217.6	4.6	82.3
1993	203.678	217.4	510.6	7.7	71.0	62.0	217.4	4.6	81.9
1994	197.423	222.8	517.7	8.3	70.6	62.4	222.8	4.6	84.1
1995	197.128	226.9	522.6	8.7	70.6	62.7	226.9	4.7	85.8
1996	154.735	242.2	542.7	10.5	70.7	63.9	242.2	4.8	92.7
1997	147.608	245.7	547.8	10.9	70.4	64.2	245.7	4.9	94.2
1998	146.595	248.7	551.9	11.2	70.1	64.5	248.7	4.9	95.5
1999	149.077	252.8	556.7	11.7	70.2	64.7	252.8	5.0	97.1
2000	140.236	261.6	568.0	12.7	70.3	65.4	261.6	5.0	101.1
2001	135.805	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	130.711	271.6	582.6	13.9	69.8	66.1	271.6	5.1	105.7
2004	134.009	267.3	576.9	13.3	69.4	65.8	267.3	5.1	103.5
2005	120.273	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	116.391	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	113.103	280.9	600.9	15.2	68.4	67.0	280.9	5.2	110.6
2010	109.467	280.9	600.9	15.1	68.2	67.0	280.9	5.2	110.4
2011	109.068	281.0	601.3	15.1	68.0	67.0	281.0	5.2	110.4
2012	111.022	283.1	603.7	15.3	68.0	67.2	283.1	5.2	111.2
2013	109.571	280.1	599.5	14.9	67.7	67.0	280.1	5.2	109.6
2014	107.841	285.7	608.1	15.7	67.9	67.4	285.7	5.2	112.5
2015	112.838	282.3	604.3	15.3	67.9	67.2	282.1	5.2	111.3
2016	107.841	291.3	618.9	16.5	67.5	67.8	291.3	5.3	115.8

**1.2 Non-dairy cows 1986–2016**

	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	318.741	110.5	289.4	16.7	64.8	110.5	2.1
1987	316.835	110.5	289.1	16.7	64.9	110.5	2.1
1988	315.820	110.6	289.2	16.7	65.0	110.6	2.1
1989	319.485	110.7	289.4	16.7	65.0	110.7	2.1
1990	307.556	110.7	289.2	16.7	65.1	110.7	2.1
1991	273.208	111.7	292.2	16.7	65.3	111.7	2.1
1992	284.801	111.1	289.5	16.7	65.2	111.1	2.1
1993	265.870	111.1	289.2	16.7	65.3	111.1	2.1
1994	269.977	111.7	290.7	16.7	65.4	111.7	2.1
1995	283.217	112.1	291.8	16.7	65.5	112.1	2.1
1996	299.476	112.6	294.9	16.6	65.7	112.6	2.1
1997	263.112	113.1	296.0	16.7	65.8	113.1	2.1
1998	271.923	113.1	296.5	16.5	65.9	113.1	2.1
1999	285.841	113.5	297.4	16.5	66.0	113.5	2.1
2000	299.538	115.4	301.5	16.7	66.2	115.4	2.2
2001	288.494	117.1	304.9	17.4	66.3	117.1	2.2
2002	278.251	119.6	309.4	18.9	66.3	119.6	2.2
2003	264.350	119.0	307.9	19.2	66.4	119.0	2.2
2004	269.063	118.8	307.1	18.5	66.4	118.8	2.2
2005	275.289	121.0	314.4	17.6	66.8	121.0	2.2
2006	281.012	120.7	314.5	17.9	66.8	120.7	2.2

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2007	301.945	119.7	313.2	17.2	67.0	119.7	2.2
2008	294.021	119.0	312.3	17.3	66.8	119.0	2.2
2009	298.802	116.0	306.7	17.3	66.6	116.0	2.2
2010	296.797	114.7	304.4	17.1	66.6	114.7	2.2
2011	291.561	119.6	313.2	17.8	66.7	119.6	2.2
2012	292.538	119.9	314.7	16.6	66.6	119.9	2.2
2013	294.791	119.1	312.2	16.7	66.6	119.1	2.2
2014	299.937	119.4	312.7	17.4	66.6	119.4	2.2
2015	314.317	120.7	314.0	17.0	66.6	120.7	2.2
2016	314.359	121.4	316.8	16.5	66.7	121.4	2.3

**1.3 Other cows 1986–2016**

	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	31.986	203.4	517.2	70.7	62.4	203.4	4.2
1997	35.004	203.3	517.6	70.4	62.4	203.3	4.2
1998	34.679	203.2	518.0	70.1	62.5	203.2	4.2
1999	36.506	203.2	517.9	70.2	62.4	203.2	4.2
2000	53.896	203.3	517.7	70.3	62.4	203.3	4.2
2001	52.777	203.3	517.7	70.3	62.4	203.3	4.2
2002	55.011	203.3	517.8	70.3	62.4	203.3	4.2
2003	55.165	203.1	518.4	69.8	62.5	203.1	4.2
2004	48.065	203.0	518.9	69.4	62.5	203.0	4.2
2005	56.955	202.9	519.2	69.2	62.5	202.9	4.2
2006	60.511	202.8	519.7	68.9	62.6	202.8	4.2
2007	61.245	202.8	519.9	68.7	62.6	202.8	4.2
2008	62.562	202.8	519.9	68.7	62.6	202.8	4.2
2009	60.973	202.7	520.4	68.4	62.6	202.7	4.2
2010	63.887	202.6	520.6	68.2	62.6	202.6	4.2

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2011	61.671	202.6	520.8	68.0	62.6	202.6	4.2
2012	56.503	202.6	520.8	68.0	62.6	202.6	4.2
2013	56.214	202.5	521.3	67.7	62.7	202.5	4.2
2014	60.475	202.1	522.9	66.6	62.8	202.1	4.2
2015	57.037	202.1	522.9	66.6	62.8	202.1	4.2
2016	63.498	202.1	523.1	66.4	62.8	202.1	4.2