ICBF Dairy Cattle Statistics

Irish Cattle Breeding Federation

25th October 2011

Contents

Background.

- Of the total 1.02 million dairy births per year (AIM System*), the ICBF database has a picture of some 87% of these calvings. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.
- The dairy herds used in calculating these statistics are based on herds which had more than 10 cows calved in the last 12 months. 15,195 herds fell into this category, which this represents a slight decreased in numbers (1.8%) in the last two years.
- Each year is based on data from 1st July of the previous year to the 30th June of the year specified (i.e. 2011 births are all from 1st July 2010 to 30th June 2011).

** The Animal Identification and Movement (AIM) system is a generic traceability system that will cover various animal species. Statistical data for bovines is now sourced from the AIM system and the name of the report formerly called CMMS Statistics Report has been changed to AIM Bovine Statistics Report*

Key Outcomes.

- **Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.5% in 2012 and then increase by a further 4.1% in 2013.**
- **The 2010 report published last year, predicted an increase of 3.2% for 2011 while the actual increase for 2011, shown in this year's report, came in at 3.1%.**
- **There are substantial county and regional differences to these trends, with counties such as Kilkenny, expected to see increases in the order of 4-5% for the next 2 years, whilst other counties, e.g. Dublin and Wicklow, are expected to see decreases.**
- **Whilst the expected increase are based on historical trends (at both the county and National level), they are very dependent of future industry circumstances (e.g., prevailing milk price, quota availability, weather and any changes in technical efficiency at farm level). Each of these could result in a net increase/decrease in either the number of disposals and/or the number of calved animals coming forward on an annual basis, with consequential effects on the projected estimates.**
- **Indications from the current breeding season, in terms of level of dairy AI usage and also use of dairy stock bulls, suggests that the increase in cow numbers presented for 2012 (+2.5%) and 2013 (+4.1%), will continue for 2014.**
- **For more information on these statistics (or other relevant cattle breeding statistics), please contact ICBF HerdPlus on 1850 600 900.**

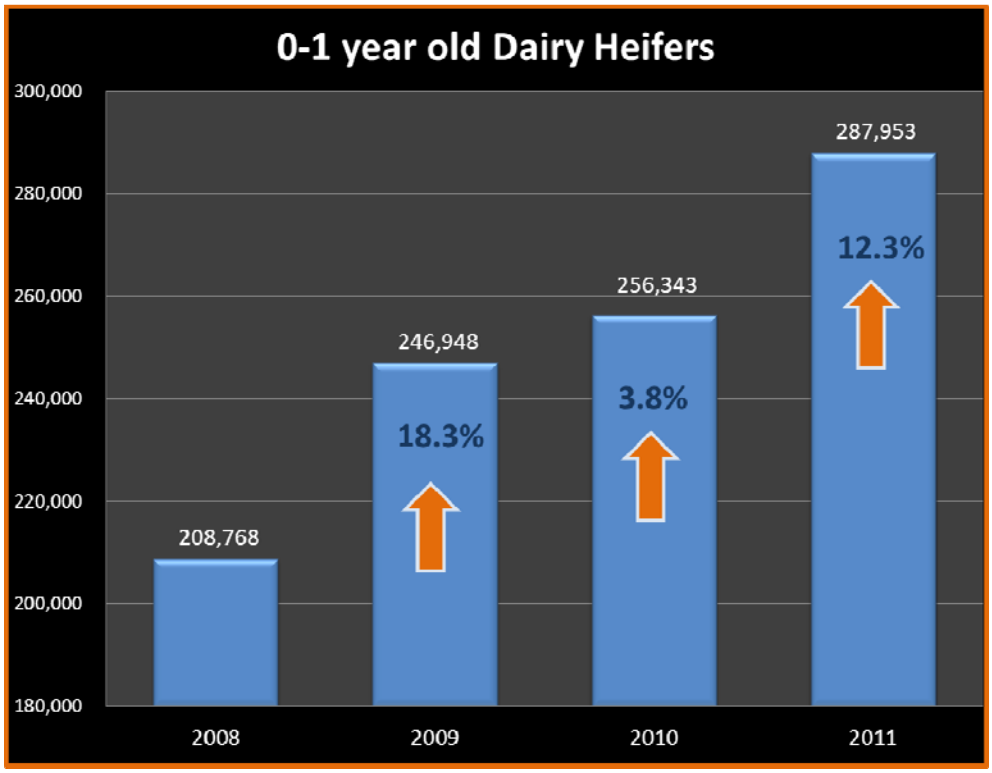
Number of Active Dairy Herds

County	Dairy Herds				Province
	2008	2009	2010	2011	
Carlow	176	167	166	161	Leinster
Cavan	637	608	599	589	Ulster
Clare	583	555	516	503	Munster
Cork	4,139	4,075	3,997	3,934	Munster
Donegal	157	149	150	146	Ulster
Dublin	25	25	24	23	Leinster
Galway	458	439	425	413	Connaught
Kerry	1,554	1,511	1,460	1,439	Munster
Kildare	153	144	142	137	Leinster
Kilkenny	837	821	814	794	Leinster
Laois	431	423	411	405	Leinster
Leitrim	43	42	42	41	Connaught
Limerick	1,390	1,365	1,326	1,301	Munster
Longford	140	135	127	127	Leinster
Louth	160	158	158	155	Leinster
Mayo	281	272	253	250	Connaught
Meath	500	484	472	461	Leinster
Monaghan	473	463	442	439	Ulster
Offaly	328	319	310	303	Leinster
Roscommon	83	80	75	73	Connaught
Sligo	137	130	121	115	Connaught
Tipperary	1,666	1,632	1,607	1,582	Munster
Waterford	709	703	681	672	Munster
Westmeath	256	249	240	229	Leinster
Wexford	734	720	714	702	Leinster
Wicklow	205	206	206	201	Leinster
Total	16,255	15,875	15,478	15,195	

Province	Dairy Herds			
	2008	2009	2010	2011
Muster	10,041	9,841	9,587	9,431
Leinster	3,945	3,851	3,784	3,698
Connaught	1,002	963	916	892
Ulster	1,267	1,220	1,191	1,174
Total	16,255	15,875	15,478	15,195

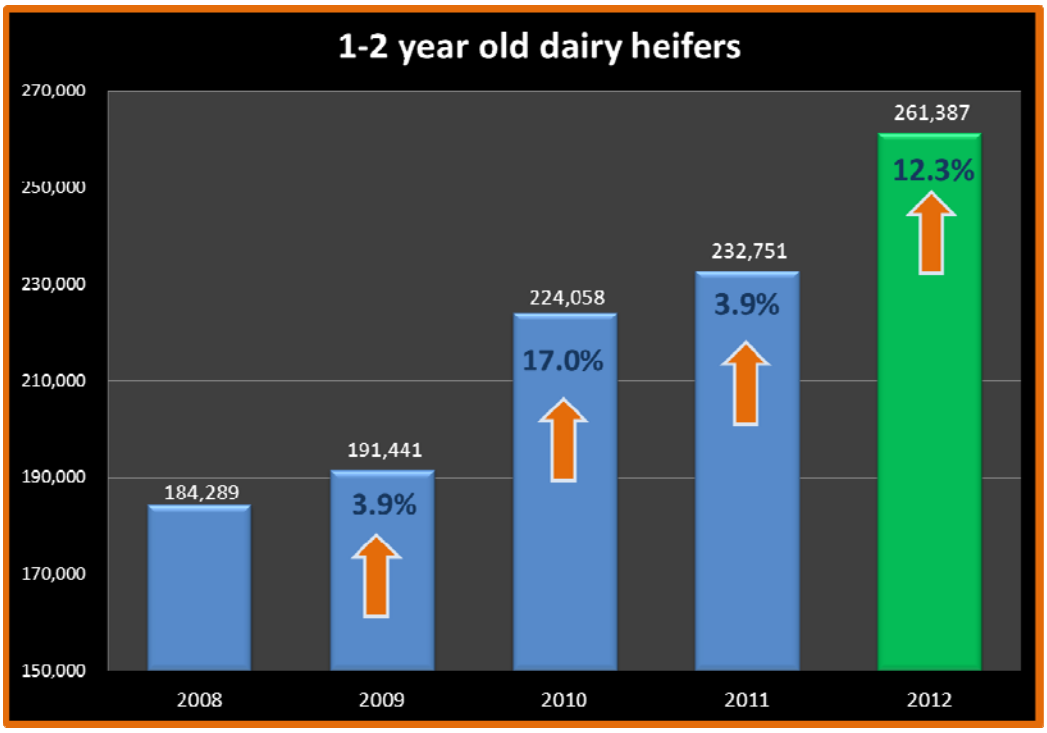
Number of 0-1 year old dairy heifers

County	0-1 year old dairy heifers						
	2008	2009	%	2010	%	2011	%
Carlow	2,211	2,556	**15.6%**	2,659	**4.0%**	2,979	**12.0%**
Cavan	6,007	6,996	**16.5%**	7,145	**2.1%**	8,011	**12.1%**
Clare	4,338	5,284	**21.8%**	5,231	**-1.0%**	5,835	**11.5%**
Cork	58,726	68,182	**16.1%**	71,899	**5.5%**	79,623	**10.7%**
Donegal	2,766	3,433	**24.1%**	3,466	**1.0%**	3,991	**15.1%**
Dublin	419	530	**26.5%**	555	**4.7%**	561	**1.1%**
Galway	4,198	5,331	**27.0%**	5,229	**-1.9%**	6,203	**18.6%**
Kerry	16,614	19,765	**19.0%**	19,779	**0.1%**	22,112	**11.8%**
Kildare	2,302	2,719	**18.1%**	2,949	**8.5%**	3,054	**3.6%**
Kilkenny	12,166	13,937	**14.6%**	14,944	**7.2%**	17,246	**15.4%**
Laois	5,914	6,976	**18.0%**	7,313	**4.8%**	8,668	**18.5%**
Leitrim	427	443	**3.7%**	464	**4.7%**	467	**0.6%**
Limerick	16,425	19,706	**20.0%**	20,134	**2.2%**	23,130	**14.9%**
Longford	1,181	1,491	**26.2%**	1,554	**4.2%**	1,882	**21.1%**
Louth	2,934	3,266	**11.3%**	3,524	**7.9%**	4,082	**15.8%**
Mayo	2,645	3,147	**19.0%**	3,047	**-3.2%**	3,393	**11.4%**
Meath	8,594	10,230	**19.0%**	10,669	**4.3%**	11,781	**10.4%**
Monaghan	4,402	5,616	**27.6%**	5,725	**1.9%**	6,358	**11.1%**
Offaly	3,827	4,401	**15.0%**	4,721	**7.3%**	5,345	**13.2%**
Roscommon	814	961	**18.1%**	891	**-7.3%**	1,100	**23.5%**
Sligo	1,263	1,527	**20.9%**	1,463	**-4.2%**	1,653	**13.0%**
Tipperary	22,903	27,493	**20.0%**	28,834	**4.9%**	32,587	**13.0%**
Waterford	11,670	13,705	**17.4%**	14,113	**3.0%**	15,938	**12.9%**
Westmeath	3,481	4,316	**24.0%**	4,365	**1.1%**	4,842	**10.9%**
Wexford	9,347	11,158	**19.4%**	11,622	**4.2%**	12,938	**11.3%**
Wicklow	3,194	3,779	**18.3%**	4,048	**7.1%**	4,174	**3.1%**
Total	208,768	246,948	18.3%	256,343	3.8%	287,953	12.3%



Number of 1-2 year old dairy Heifers

County	1-2 year old dairy heifers								
	2008	2009	%	2010	%	2011	%	2012	%
Carlow	1,904	2,130	11.9%	2,389	12.2%	2,493	4.4%	2,789	11.9%
Cavan	5,341	5,378	0.7%	6,227	15.8%	6,366	2.2%	7,134	12.1%
Clare	4,038	3,844	-4.8%	4,818	25.3%	4,772	-1.0%	5,322	11.5%
Cork	51,264	53,846	5.0%	61,869	14.9%	65,609	6.0%	72,454	10.4%
Donegal	2,352	2,466	4.8%	2,877	16.7%	2,690	-6.5%	3,221	19.7%
Dublin	479	374	-21.9%	465	24.3%	426	-8.4%	461	8.3%
Galway	3,796	3,925	3.4%	4,974	26.7%	4,900	-1.5%	5,800	18.4%
Kerry	14,131	14,800	4.7%	17,379	17.4%	17,286	-0.5%	19,384	12.1%
Kildare	1,992	2,153	8.1%	2,494	15.8%	2,731	9.5%	2,815	3.1%
Kilkenny	10,785	11,281	4.6%	12,772	13.2%	13,720	7.4%	15,819	15.3%
Laois	5,294	5,285	-0.2%	6,369	20.5%	6,677	4.8%	7,914	18.5%
Leitrim	353	380	7.6%	417	9.7%	405	-2.9%	424	4.6%
Limerick	14,868	15,334	3.1%	17,671	15.2%	18,369	3.9%	20,922	13.9%
Longford	992	1,073	8.2%	1,360	26.7%	1,399	2.9%	1,705	21.9%
Louth	2,480	2,737	10.4%	3,001	9.6%	3,235	7.8%	3,749	15.9%
Mayo	2,289	2,469	7.9%	2,827	14.5%	2,735	-3.3%	3,047	11.4%
Meath	7,627	7,855	3.0%	9,366	19.2%	9,864	5.3%	10,839	9.9%
Monaghan	3,825	3,953	3.3%	5,112	29.3%	5,121	0.2%	5,737	12.0%
Offaly	3,298	3,466	5.1%	4,021	16.0%	4,275	6.3%	4,862	13.7%
Roscommon	695	719	3.5%	868	20.7%	864	-0.5%	1,030	19.2%
Sligo	1,007	1,195	18.7%	1,357	13.6%	1,323	-2.5%	1,482	12.0%
Tipperary	20,357	21,090	3.6%	25,228	19.6%	26,316	4.3%	29,822	13.3%
Waterford	10,597	10,857	2.5%	12,442	14.6%	12,878	3.5%	14,506	12.6%
Westmeath	3,095	3,195	3.2%	3,891	21.8%	4,019	3.3%	4,412	9.8%
Wexford	8,424	8,623	2.4%	10,342	19.9%	10,607	2.6%	11,900	12.2%
Wicklow	3,006	3,013	0.2%	3,522	16.9%	3,671	4.2%	3,838	4.5%
Total	184,289	191,441	3.9%	224,058	17.0%	232,751	3.9%	261,387	12.3%



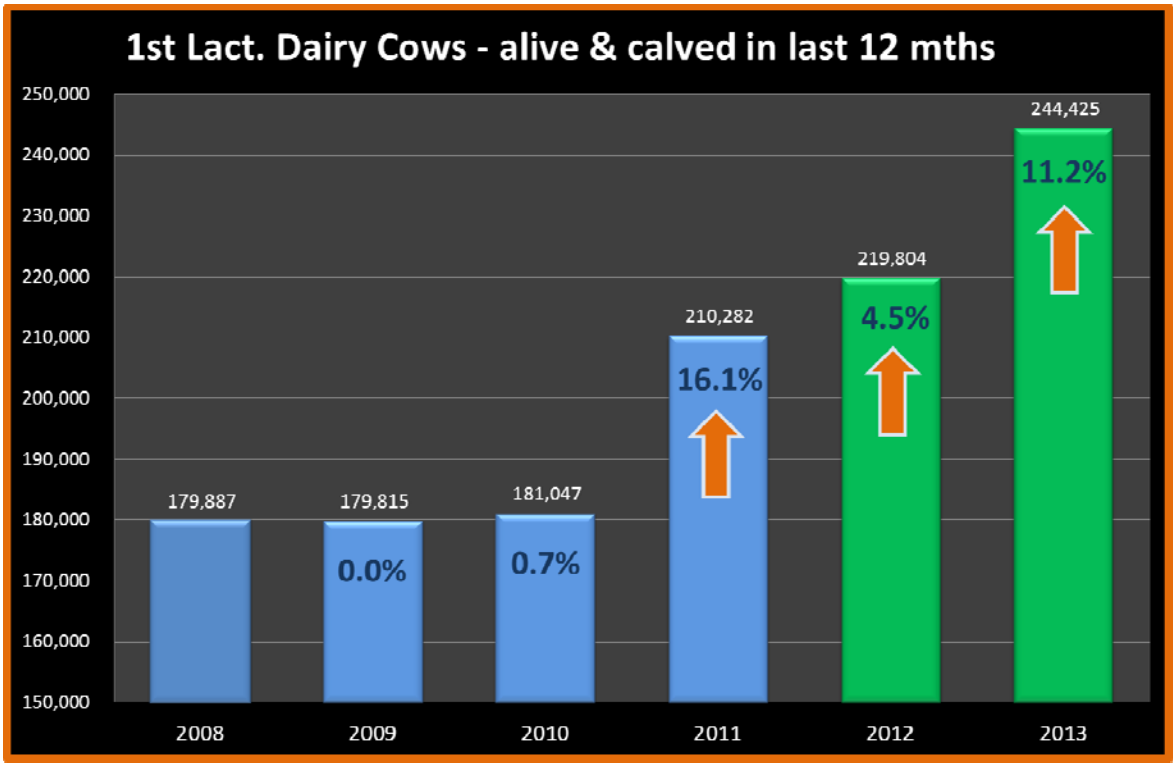
Number of 2-3 year old unclaved dairy heifers

	2-3 year old uncalved dairy heifers								
County	2008	2009	%	2010	%	2011	%	2012	2013
Carlow	708	684	-3.4%	787	15.1%	929	18.0%	945	1,057
Cavan	1,982	1,788	-9.8%	1,871	4.6%	2,114	13.0%	2,197	2,452
Clare	1,074	1,189	10.7%	1,248	5.0%	1,484	18.9%	1,439	1,683
Cork	11,438	11,895	4.0%	12,424	4.4%	13,855	11.5%	15,122	16,471
Donegal	559	568	1.6%	637	12.1%	682	7.1%	656	798
Dublin	219	269	22.8%	226	-16.0%	207	-8.4%	295	242
Galway	1,356	1,354	-0.1%	1,454	7.4%	1,785	22.8%	1,710	2,115
Kerry	3,033	3,287	8.4%	3,748	14.0%	3,951	5.4%	4,219	4,658
Kildare	1,019	965	-5.3%	955	-1.0%	1,014	6.2%	1,218	1,196
Kilkenny	2,688	2,982	10.9%	3,118	4.6%	3,395	8.9%	3,775	4,289
Laois	1,689	1,654	-2.1%	1,767	6.8%	1,925	8.9%	2,171	2,519
Leitrim	209	194	-7.2%	218	12.4%	236	8.3%	236	241
Limerick	4,128	4,196	1.6%	4,312	2.8%	4,642	7.7%	5,170	5,690
Longford	332	373	12.3%	376	0.8%	504	34.0%	494	615
Louth	1,148	1,219	6.2%	1,225	0.5%	1,228	0.2%	1,558	1,606
Mayo	953	1,019	6.9%	1,093	7.3%	1,191	9.0%	1,139	1,316
Meath	3,105	3,166	2.0%	3,496	10.4%	3,906	11.7%	4,308	4,672
Monaghan	1,290	1,378	6.8%	1,345	-2.4%	1,915	42.4%	1,758	2,051
Offaly	1,017	1,094	7.6%	1,153	5.4%	1,206	4.6%	1,409	1,538
Roscommon	251	299	19.1%	281	-6.0%	309	10.0%	299	385
Sligo	480	466	-2.9%	516	10.7%	532	3.1%	590	610
Tipperary	4,168	4,280	2.7%	4,611	7.7%	5,269	14.3%	5,493	6,374
Waterford	2,349	2,465	4.9%	2,639	7.1%	2,854	8.1%	2,977	3,427
Westmeath	1,191	1,318	10.7%	1,191	-9.6%	1,525	28.0%	1,531	1,687
Wexford	2,645	2,828	6.9%	2,893	2.3%	3,416	18.1%	3,630	3,962
Wicklow	1,352	1,326	-1.9%	1,383	4.3%	1,516	9.6%	1,629	1,707
Total	50,383	52,256	3.7%	54,967	5.2%	61,590	12.0%	65,968	73,361

2-3 year old uncalved dairy heifers									
Province	2008	2009	%	2010	%	2011	%	2012	2013
Muster	26,190	27,312	4.3%	28,982	6.1%	32,055	10.6%	34,420	38,303
Leinster	17,113	17,878	4.5%	18,570	3.9%	20,771	11.9%	22,963	25,089
Connaught	3,249	3,332	2.6%	3,562	6.9%	4,053	13.8%	3,973	4,668
Ulster	3,831	3,734	-2.5%	3,853	3.2%	4,711	22.3%	4,612	5,300
Total	50,383	52,256	3.7%	54,967	5.2%	61,590	12.0%	65,968	73,361

Number of 1st Lactation Dairy Cows alive and calved in the last 12 months

County	1st Lactation Dairy Cows - alive & calved in the last 12 mths										
	2008	2009	%	2010	%	2011	%	2012	%	2013	%
Carlow	1,913	1,895	-0.9%	1,919	1.3%	2,111	10.0%	2,289	8.4%	2,520	10.1%
Cavan	5,334	5,218	-2.2%	4,981	-4.5%	5,843	17.3%	5,994	2.6%	6,597	10.0%
Clare	4,267	3,942	-7.6%	3,653	-7.3%	4,562	24.9%	4,612	1.1%	5,053	9.6%
Cork	48,761	50,121	2.8%	50,996	1.7%	57,535	12.8%	61,487	6.9%	67,661	10.0%
Donegal	2,344	2,494	6.4%	2,450	-1.8%	3,005	22.7%	2,804	-6.7%	3,231	15.2%
Dublin	369	309	-16.3%	360	16.5%	401	11.4%	360	-10.2%	389	8.1%
Galway	3,927	3,952	0.6%	3,762	-4.8%	4,813	27.9%	4,861	1.0%	5,539	13.9%
Kerry	14,333	13,693	-4.5%	13,351	-2.5%	16,796	25.8%	16,292	-3.0%	18,060	10.8%
Kildare	2,016	1,890	-6.3%	2,016	6.7%	2,186	8.4%	2,365	8.2%	2,519	6.5%
Kilkenny	9,881	10,043	1.6%	10,747	7.0%	11,969	11.4%	12,902	7.8%	14,709	14.0%
Laois	4,921	4,889	-0.7%	4,911	0.4%	5,793	18.0%	6,090	5.1%	7,105	16.7%
Leitrim	311	323	3.9%	324	0.3%	370	14.2%	368	-0.5%	376	2.1%
Limerick	14,647	14,734	0.6%	14,332	-2.7%	17,327	20.9%	17,409	0.5%	19,650	12.9%
Longford	1,292	1,085	-16.0%	1,320	21.7%	1,444	9.4%	1,664	15.3%	1,937	16.4%
Louth	2,393	2,464	3.0%	2,630	6.7%	2,867	9.0%	3,003	4.7%	3,438	14.5%
Mayo	2,267	2,133	-5.9%	2,108	-1.2%	2,601	23.4%	2485	-4.5%	2678	7.8%
Meath	7,490	7,246	-3.3%	7,665	5.8%	8,255	7.7%	9,215	11.6%	10,121	9.8%
Monaghan	3,837	3,825	-0.3%	3,776	-1.3%	4,626	22.5%	4,993	7.9%	5,417	8.5%
Offaly	3,573	3,349	-6.3%	3,377	0.8%	4,006	18.6%	4,131	3.1%	4,683	13.4%
Roscommon	734	682	-7.1%	665	-2.5%	815	22.6%	784	-3.8%	905	15.4%
Sligo	965	1,043	8.1%	992	-4.9%	1,289	29.9%	1,190	-7.7%	1,301	9.3%
Tipperary	19,648	19,856	1.1%	19,875	0.1%	23,178	16.6%	24,633	6.3%	27,632	12.2%
Waterford	10,005	10,119	1.1%	10,283	1.6%	11,797	14.7%	12,171	3.2%	13,611	11.8%
Westmeath	3,133	3,333	6.4%	3,135	-5.9%	3,686	17.6%	3,915	6.2%	4,233	8.1%
Wexford	8,684	8,311	-4.3%	8,572	3.1%	9,888	15.4%	10,456	5.7%	11,536	10.3%
Wicklow	2,842	2,866	0.8%	2,847	-0.7%	3,119	9.6%	3,332	6.8%	3,525	5.8%
Total	179,887	179,815	0.0%	181,047	0.7%	210,282	16.1%	219,804	4.5%	244,425	11.2%



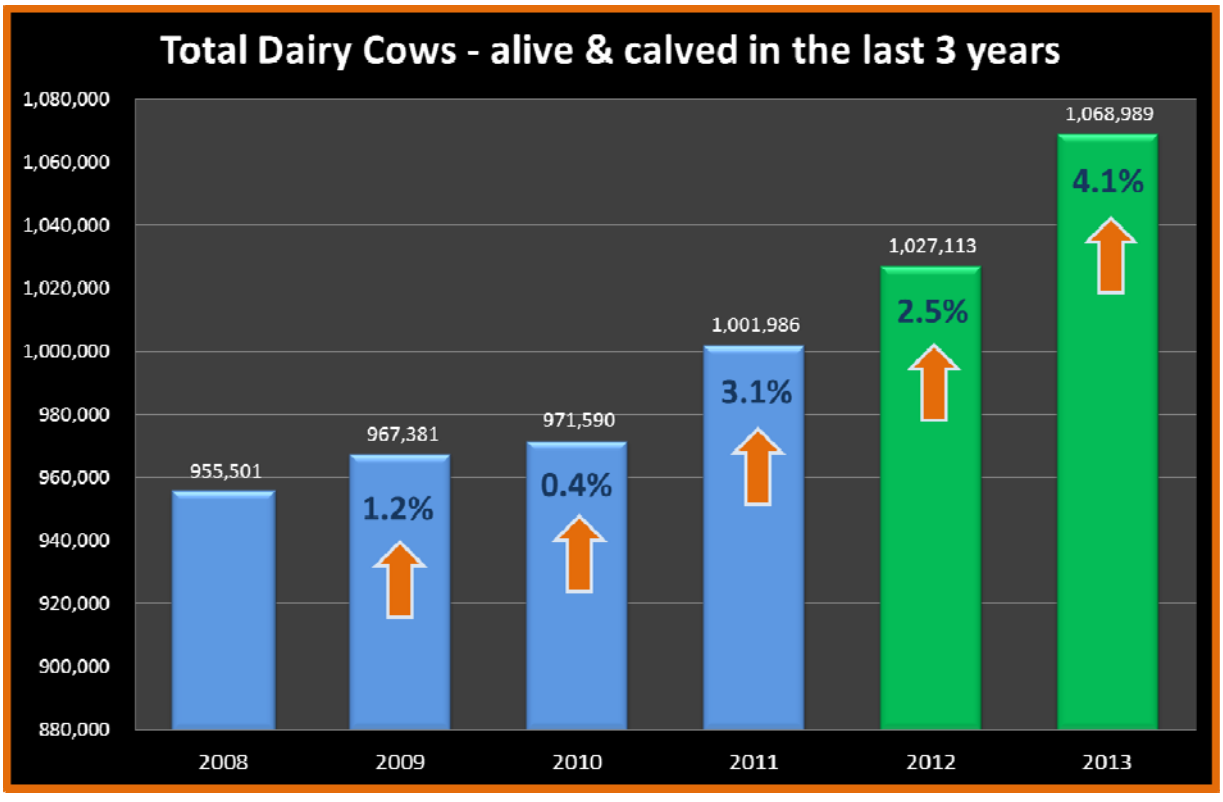
Net Disposals of Dairy Cows (Total Sold – Total Bought In)

	Net disposals - (Total Sold - Bought In)										
County	2008	2009	%	2010	%	2011	%	2012	%	2013	%
Carlow	1,443	1,632	**13.1%**	1,811	**11.0%**	2,007	**10.8%**	2,053	2.3%	2,129	3.7%
Cavan	4,633	5,612	**21.1%**	5,566	**-0.8%**	5,072	**-8.9%**	5,207	2.7%	5,411	3.9%
Clare	3,074	4,127	**34.3%**	4,410	**6.9%**	4,034	**-8.5%**	4,119	2.1%	4,255	3.3%
Cork	37,411	41,095	**9.8%**	45,314	**10.3%**	53,496	**18.1%**	54,799	2.4%	56,897	3.8%
Donegal	1,612	2,001	**24.1%**	2,559	**27.9%**	2,659	**3.9%**	2,684	0.9%	2,778	3.5%
Dublin	334	460	**37.7%**	399	**-13.3%**	562	**40.9%**	517	-8.1%	488	-5.5%
Galway	3,651	3,713	**1.7%**	4,167	**12.2%**	4,058	**-2.6%**	4,180	3.0%	4,386	4.9%
Kerry	11,740	14,805	**26.1%**	15,664	**5.8%**	14,636	**-6.6%**	14,888	1.7%	15,369	3.2%
Kildare	1,688	1,982	**17.4%**	1,995	**0.7%**	2,210	**10.8%**	2,237	1.2%	2,287	2.2%
Kilkenny	7,644	8,876	**16.1%**	8,591	**-3.2%**	10,315	**20.1%**	10,720	3.9%	11,345	5.8%
Laois	4,193	4,477	**6.8%**	4,587	**2.5%**	5,207	**13.5%**	5,350	2.8%	5,635	5.3%
Leitrim	315	375	**19.0%**	342	**-8.8%**	307	**-10.2%**	316	2.8%	324	2.7%
Limerick	11,641	13,978	**20.1%**	15,018	**7.4%**	14,452	**-3.8%**	14,880	3.0%	15,572	4.6%
Longford	671	1,142	**70.2%**	1,208	**5.8%**	1,178	**-2.5%**	1,251	6.2%	1,353	8.2%
Louth	1,887	2,059	**9.1%**	2,147	**4.3%**	2,659	**23.8%**	2,718	2.2%	2,841	4.5%
Mayo	2,093	2,615	**24.9%**	2,566	**-1.9%**	2,385	**-7.1%**	2,401	0.7%	2,446	1.9%
Meath	6,260	6,590	**5.3%**	6,609	**0.3%**	7,857	**18.9%**	8,082	2.9%	8,420	4.2%
Monaghan	3,552	4,176	**17.6%**	4,412	**5.7%**	4,211	**-4.6%**	4,338	3.0%	4,514	4.0%
Offaly	2,991	3,282	**9.7%**	3,320	**1.2%**	3,709	**11.7%**	3,779	1.9%	3,930	4.0%
Roscommon	567	802	**41.4%**	770	**-4.0%**	673	**-12.6%**	689	2.4%	720	4.5%
Sligo	883	1,246	**41.1%**	1,221	**-2.0%**	1,151	**-5.7%**	1,157	0.5%	1,180	2.0%
Tipperary	14,130	15,947	**12.9%**	18,362	**15.1%**	20,447	**11.4%**	21,108	3.2%	22,138	4.9%
Waterford	7,719	8,797	**14.0%**	9,369	**6.5%**	11,010	**17.5%**	11,207	1.8%	11,615	3.6%
Westmeath	2,483	2,852	**14.9%**	3,137	**10.0%**	3,438	**9.6%**	3,520	2.4%	3,643	3.5%
Wexford	5,688	5,712	**0.4%**	6,881	**20.5%**	8,745	**27.1%**	9,006	3.0%	9,392	4.3%
Wicklow	2,462	2,491	**1.2%**	2,762	**10.9%**	3,503	**26.8%**	3,471	-0.9%	3,481	0.3%
Total	**140,765**	**160,844**	**14.3%**	**173,187**	**7.7%**	**189,981**	**9.7%**	**194,677**	**2.5%**	**202,548**	**4.0%**

	Net disposals - (Total Sold - Bought In)										
Province	2008	2009	%	2010	%	2011	%	2012	%	2013	%
Muster	85,715	98,749	**15.2%**	108,137	**9.5%**	118,075	**9.2%**	121,001	**2.5%**	125,846	**4.0%**
Leinster	37,744	41,555	**10.1%**	43,447	**4.6%**	51,390	**18.3%**	52,704	**2.6%**	54,944	**4.2%**
Connaught	7,509	8,751	**16.5%**	9,066	**3.6%**	8,574	**-5.4%**	8,743	**2.0%**	9,056	**3.6%**
Ulster	9,797	11,789	**20.3%**	12,537	**6.3%**	11,942	**-4.7%**	12,229	**2.4%**	12,702	**3.9%**
Total	**140,765**	**160,844**	**14.3%**	**173,187**	**7.7%**	**189,981**	**9.7%**	**194,677**	**2.5%**	**202,548**	**4.0%**

Total Dairy Cows alive and calved in the last 3 years

County	Total Dairy Cows - alive & calved in the last 3 years.										
	2008	2009	%	2010	%	2011	%	2012	%	2013	%
Carlow	9,812	10,060	2.5%	10,084	0.2%	10,266	1.8%	10,502	2.3%	10,892	3.7%
Cavan	29,757	29,039	-2.4%	28,572	-1.6%	29,547	3.4%	30,334	2.7%	31,520	3.9%
Clare	24,852	24,321	-2.1%	22,885	-5.9%	23,517	2.8%	24,010	2.1%	24,808	3.3%
Cork	255,291	261,631	2.5%	266,742	2.0%	274,539	2.9%	281,227	2.4%	291,991	3.8%
Donegal	11,640	12,050	3.5%	12,202	1.3%	12,861	5.4%	12,981	0.9%	13,435	3.5%
Dublin	2,080	2,006	-3.6%	2,018	0.6%	1,935	-4.1%	1,778	-8.1%	1,680	-5.5%
Galway	22,773	22,613	-0.7%	21,925	-3.0%	22,677	3.4%	23,358	3.0%	24,512	4.9%
Kerry	81,147	80,501	-0.8%	78,505	-2.5%	81,742	4.1%	83,147	1.7%	85,837	3.2%
Kildare	10,414	10,277	-1.3%	10,247	-0.3%	10,302	0.5%	10,430	1.2%	10,662	2.2%
Kilkenny	50,068	51,478	2.8%	53,382	3.7%	55,532	4.0%	57,714	3.9%	61,078	5.8%
Laois	24,888	25,427	2.2%	25,858	1.7%	26,884	4.0%	27,623	2.8%	29,093	5.3%
Leitrim	1,849	1,788	-3.3%	1,761	-1.5%	1,849	5.0%	1,901	2.8%	1,953	2.7%
Limerick	82,734	82,967	0.3%	81,803	-1.4%	85,293	4.3%	87,821	3.0%	91,900	4.6%
Longford	6,678	6,451	-3.4%	6,465	0.2%	6,720	3.9%	7,134	6.2%	7,718	8.2%
Louth	11,581	11,951	3.2%	12,519	4.8%	12,832	2.5%	13,117	2.2%	13,713	4.5%
Mayo	13,366	12,713	-4.9%	12,152	-4.4%	12,402	2.1%	12,486	0.7%	12,718	1.9%
Meath	37,490	37,652	0.4%	38,664	2.7%	39,577	2.4%	40,710	2.9%	42,411	4.2%
Monaghan	21,935	21,632	-1.4%	21,098	-2.5%	21,644	2.6%	22,299	3.0%	23,202	4.0%
Offaly	18,630	18,413	-1.2%	18,205	-1.1%	18,560	2.0%	18,911	1.9%	19,665	4.0%
Roscommon	4,137	3,989	-3.6%	3,778	-5.3%	3,966	5.0%	4,061	2.4%	4,245	4.5%
Sligo	6,693	6,486	-3.1%	5,964	-8.0%	6,133	2.8%	6,166	0.5%	6,287	2.0%
Tipperary	101,426	104,315	2.8%	105,276	0.9%	109,089	3.6%	112,614	3.2%	118,109	4.9%
Waterford	50,037	51,526	3.0%	52,304	1.5%	53,819	2.9%	54,783	1.8%	56,779	3.6%
Westmeath	16,004	16,387	2.4%	16,196	-1.2%	16,529	2.1%	16,924	2.4%	17,514	3.5%
Wexford	45,501	46,536	2.3%	47,625	2.3%	48,622	2.1%	50,072	3.0%	52,217	4.3%
Wicklow	14,718	15,172	3.1%	15,360	1.2%	15,149	-1.4%	15,010	-0.9%	15,054	0.3%
Total	955,501	967,381	1.2%	971,590	0.4%	1,001,986	3.1%	1,027,113	2.5%	1,068,989	4.1%



Current and future trends in the Carlow Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		176	167		166		161						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	2,211	2,556	15.6%	2,659	4.0%	2,979	12.0%					
2	**1-2 year old dairy heifers**	1,904	2,130	11.9%	2,389	12.2%	2,493	4.4%	2,789				**Step 1**
3	**2-3 year old uncalved dairy heifers**	708	684	-3.4%	787	15.1%	929	18.0%	945		1,057		**Step 2**
4	**>3 year old uncalved dairy heifers**	79	74	-6.3%	111	50.0%	81	-27.0%	123		125		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	1,913	1,895	-0.9%	1,919	1.3%	2,111	10.0%	2,289	8.4%	2,520	10.1%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	1,443	1,632	13.1%	1,811	11.0%	2,007	10.8%	2,053		2,129		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**9,812**	**10,060**	***2.5%***	**10,084**	***0.2%***	**10,266**	***1.8%***	***10,502***	***2.3%***	***10,892***	***3.7%***	**Step 6**

16% 18% 20% 10,502 10,892

Key Assumptions & Calculations

Step 1

Of the 2556 0-1 year old heifers on farms in 2009 (Ref 1), 2389 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 2659 0-1 year old heifers on farms in 2010 (Ref 1), 2493 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.936. Predicting forward for 2012, this suggests that of the 2979 0-1 year heifers born on farms in 2011, 2789 will still be on farms on 0th June 2012 (i.e. 2979 * 0.936 = 2789).*

Step 2

Of the 2130 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 787 were still uncalved in 2010 (Ref 3). Of the 2389 uncalved heifers on farms in 2010 (Ref 2), 929 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.379. Predicting forward for 2012, this suggests that of the 2493 1-2 year heifers on farms in 2011, 945 will still be on farms on 0th June 2012. Similarly of the 2789 1-2 year old heifers on farms on 0th June 2012, 1057 will still be on farms on 0th June 2013.

Step 3

Of the 684 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 111 were still uncalved in 2010 (Ref 4). Of the 787 uncalved heifers on farms in 2010 (Ref 3), 81 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.133. Predicting forward for 2012, this suggests that of the 929 2-3 year heifers on farms in 2011, 123 will still be on farms on 0th June 2012. Similarly of the 945 2-3 year old heifers on farms on 0th June 2012, 125 will still be on farms on 0th June 2013.

Step 4

Of the 2888 (2130 + 684 + 74) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 1919 had a subsequent calving in 2010 (Ref 5). Of the 3287 (2389 + 787 + 111) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 2111 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.653. Predicting forward for 2011, this suggests that of the 3503 1-3+ year old heifers on farms in 2011, 2288 will have calved down by 0th June 2012. Similarly of the 3857 1-3+ year old heifers on farms on 0th June 2012, 2520 will have calved down by 0th June 2013.

Step 5

There were 1632, 1811, 2007 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.2) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 2289 & 2520 respectively (Ref 5). This compares with 2053 + 2129 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 236 in 2012 and 391 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 10502 cows for 2012 and 10892 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.3% in 2012 and then increase by a further 3.7% in 2013.

Current and future trends in the Cavan Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		637	608		599		589						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	6,007	6,996	16.5%	7,145	2.1%	8,011	12.1%					
2	**1-2 year old dairy heifers**	5,341	5,378	0.7%	6,227	15.8%	6,366	2.2%	7,134				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,982	1,788	-9.8%	1,871	4.6%	2,114	13.0%	2,188		2,452		**Step 2**
4	**>3 year old uncalved dairy heifers**	216	217	0.5%	223	2.8%	227	1.8%	260		269		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	5,334	5,218	-2.2%	4,981	-4.5%	5,843	17.3%	5,994	2.6%	6,597	10.0%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	4,633	5,612	21.1%	5,566	-0.8%	5,072	-8.9%	5,207		5,411		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**29,757**	**29,039**	**-2.4%**	**28,572**	**-1.6%**	**29,547**	**3.4%**	**30,334**	**2.7%**	**31,520**	**3.9%**	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 6996 0-1 year old heifers on farms in 2009 (Ref 1), 6227 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 7145 0-1 year old heifers on farms in 2010 (Ref 1), 6366 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.891. Predicting forward for 2012, this suggests that of the 8011 0-1 year heifers born on farms in 2011, 7134 will still be on farms on 0th June 2012 (i.e. 8011 * 0.891 = 7134).*

Step 2

Of the 5378 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1871 were still uncalved in 2010 (Ref 3). Of the 6227 uncalved heifers on farms in 2010 (Ref 2), 2114 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.344. Predicting forward for 2012, this suggests that of the 6366 1-2 year heifers on farms in 2011, 2188 will still be on farms on 0th June 2012. Similarly of the 7134 1-2 year old heifers on farms on 0th June 2012, 2452 will still be on farms on 0th June 2013.

Step 3

Of the 1788 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 223 were still uncalved in 2010 (Ref 4). Of the 1871 uncalved heifers on farms in 2010 (Ref 3), 227 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.123. Predicting forward for 2012, this suggests that of the 2114 2-3 year heifers on farms in 2011, 260 will still be on farms on 0th June 2012. Similarly of the 2188 2-3 year old heifers on farms on 0th June 2012, 269 will still be on farms on 0th June 2013.

Step 4

Of the 7383 (5378 + 1788 + 217) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 4981 had a subsequent calving in 2010 (Ref 5). Of the 8321 (6227 + 1871 + 223) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 5843 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.688. Predicting forward for 2011, this suggests that of the 8707 1-3+ year old heifers on farms in 2011, 5994 will have calved down by 0th June 2012. Similarly of the 9582 1-3+ year old heifers on farms on 0th June 2012, 6596 will have calved down by 0th June 2013.

Step 5

There were 5612, 5566, 5072 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.17) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 5994 & 6597 respectively (Ref 5). This compares with 5207 + 5411 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 787 in 2012 and 1186 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 30334 cows for 2012 and 31520 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.7% in 2012 and then increase by a further 3.9% in 2013.

Current and future trends in the Clare Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		583	555		516		503						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	4,338	5,284	21.8%	5,231	-1.0%	5,835	11.5%					
2	**1-2 year old dairy heifers**	4,038	3,844	-4.8%	4,818	25.3%	4,772	-1.0%	5,322				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,074	1,189	10.7%	1,248	5.0%	1,484	18.9%	1,510		1,683		**Step 2**
4	**>3 year old uncalved dairy heifers**	156	124	-20.5%	147	18.5%	138	-6.1%	174		177		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	4,267	3,942	-7.6%	3,653	-7.3%	4,562	24.9%	4,612	1.1%	5,053	9.6%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	3,074	4,127	34.3%	4,410	6.9%	4,034	-8.5%	4,119		4,255		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**24,852**	**24,321**	**-2.1%**	**22,885**	**-5.9%**	**23,517**	**2.8%**	**24,010**	**2.1%**	**24,808**	**3.3%**	**Step 6**

17% 19% 17% 24,010 24,808

Key Assumptions & Calculations

Step 1

Of the 5284 0-1 year old heifers on farms in 2009 (Ref 1), 4818 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 5231 0-1 year old heifers on farms in 2010 (Ref 1), 4772 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.912. Predicting forward for 2012, this suggests that of the 5835 0-1 year heifers born on farms in 2011, 5322 will still be on farms on 0th June 2012 (i.e. 5835 * 0.912 = 5322).*

Step 2

Of the 3844 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1248 were still uncalved in 2010 (Ref 3). Of the 4818 uncalved heifers on farms in 2010 (Ref 2), 1484 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.316. Predicting forward for 2012, this suggests that of the 4772 1-2 year heifers on farms in 2011, 1510 will still be on farms on 0th June 2012. Similarly of the 5322 1-2 year old heifers on farms on 0th June 2012, 1683 will still be on farms on 0th June 2013.

Step 3

Of the 1189 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 147 were still uncalved in 2010 (Ref 4). Of the 1248 uncalved heifers on farms in 2010 (Ref 3), 138 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.117. Predicting forward for 2012, this suggests that of the 1484 2-3 year heifers on farms in 2011, 174 will still be on farms on 0th June 2012. Similarly of the 1510 2-3 year old heifers on farms on 0th June 2012, 177 will still be on farms on 0th June 2013.

Step 4

Of the 5157 (3844 + 1189 + 124) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 3653 had a subsequent calving in 2010 (Ref 5). Of the 6213 (4818 + 1248 + 147) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 4562 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.721. Predicting forward for 2011, this suggests that of the 6394 1-3+ year old heifers on farms in 2011, 4612 will have calved down by 0th June 2012. Similarly of the 7005 1-3+ year old heifers on farms on 0th June 2012, 5052 will have calved down by 0th June 2013.

Step 5

There were 4127, 4410, 4034 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.17) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 4612 & 5053 respectively (Ref 5). This compares with 4119 + 4255 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 493 in 2012 and 797 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 24010 cows for 2012 and 24808 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.1% in 2012 and then increase by a further 3.3% in 2013.

Current and future trends in the Cork Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		4139	4075		3997		3934						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	58,726	*68,182*	*16.1%*	*71,899*	*5.5%*	*79,623*	*10.7%*					
2	**1-2 year old dairy heifers**	51,264	53,846	*5.0%*	*61,869*	*14.9%*	*65,609*	*6.0%*	*72,454*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	11,438	11,895	*4.0%*	*12,424*	*4.4%*	*13,855*	*11.5%*	*14,915*		*16,471*		**Step 2**
4	**>3 year old uncalved dairy heifers**	1,039	1,100	*5.9%*	*1,237*	*12.5%*	*1,191*	*-3.7%*	*1,385*		*1,490*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	48,761	*50,121*	*2.8%*	*50,996*	*1.7%*	*57,535*	*12.8%*	*61,487*	*6.9%*	*67,661*	*10.0%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	37,411	41,095	*9.8%*	45,314	*10.3%*	53,496	*18.1%*	*54,799*		*56,897*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**255,291**	**261,631**	***2.5%***	**266,742**	***2.0%***	**274,539**	***2.9%***	***281,227***	***2.4%***	***291,991***	***3.8%***	**Step 6**

16% 17% 19% 281,227 291,991

Key Assumptions & Calculations

Step 1

Of the 68182 0-1 year old heifers on farms in 2009 (Ref 1), 61869 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 71899 0-1 year old heifers on farms in 2010 (Ref 1), 65609 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.91. Predicting forward for 2012, this suggests that of the 79623 0-1 year heifers born on farms in 2011, 72454 will still be on farms on 0th June 2012 (i.e. 79623 * 0.91 = 72454).*

Step 2

Of the 53846 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 12424 were still uncalved in 2010 (Ref 3). Of the 61869 uncalved heifers on farms in 2010 (Ref 2), 13855 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.227. Predicting forward for 2012, this suggests that of the 65609 1-2 year heifers on farms in 2011, 14915 will still be on farms on 0th June 2012. Similarly of the 72454 1-2 year old heifers on farms on 0th June 2012, 16471 will still be on farms on 0th June 2013.

Step 3

Of the 11895 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 1237 were still uncalved in 2010 (Ref 4). Of the 12424 uncalved heifers on farms in 2010 (Ref 3), 1191 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.1. Predicting forward for 2012, this suggests that of the 13855 2-3 year heifers on farms in 2011, 1385 will still be on farms on 0th June 2012. Similarly of the 14915 2-3 year old heifers on farms on 0th June 2012, 1490 will still be on farms on 0th June 2013.

Step 4

Of the 66841 (53846 + 11895 + 1100) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 50996 had a subsequent calving in 2010 (Ref 5). Of the 75530 (61869 + 12424 + 1237) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 57535 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.762. Predicting forward for 2011, this suggests that of the 80655 1-3+ year old heifers on farms in 2011, 61487 will have calved down by 0th June 2012. Similarly of the 88753 1-3+ year old heifers on farms on 0th June 2012, 67661 will have calved down by 0th June 2013.

Step 5

There were 41095, 45314, 53496 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.19) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 61487 & 67661 respectively (Ref 5). This compares with 54799 + 56897 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 6688 in 2012 and 10765 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 281227 cows for 2012 and 291991 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.4% in 2012 and then increase by a further 3.8% in 2013.

Current and future trends in the Donegal Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		157	149		150		146						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	2,766	3,433	24.1%	3,466	1.0%	3,991	15.1%					
2	**1-2 year old dairy heifers**	2,352	2,466	4.8%	2,877	16.7%	2,690	-6.5%	3,221				**Step 1**
3	**2-3 year old uncalved dairy heifers**	559	568	1.6%	637	12.1%	682	7.1%	666		798		**Step 2**
4	**>3 year old uncalved dairy heifers**	65	51	-21.5%	51	0.0%	54	5.9%	60		58		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	2,344	2,494	6.4%	2,450	-1.8%	3,005	22.7%	2,804	-6.7%	3,231	15.2%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	1,612	2,001	24.1%	2,559	27.9%	2,659	3.9%	2,684		2,778		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**11,640**	**12,050**	**3.5%**	**12,202**	**1.3%**	**12,861**	**5.4%**	**12,981**	**0.9%**	**13,435**	**3.5%**	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 3433 0-1 year old heifers on farms in 2009 (Ref 1), 2877 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 3466 0-1 year old heifers on farms in 2010 (Ref 1), 2690 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.807. Predicting forward for 2012, this suggests that of the 3991 0-1 year heifers born on farms in 2011, 3221 will still be on farms on 0th June 2012 (i.e. 3991 * 0.807 = 3221).*

Step 2

Of the 2466 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 637 were still uncalved in 2010 (Ref 3). Of the 2877 uncalved heifers on farms in 2010 (Ref 2), 682 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.248. Predicting forward for 2012, this suggests that of the 2690 1-2 year heifers on farms in 2011, 666 will still be on farms on 0th June 2012. Similarly of the 3221 1-2 year old heifers on farms on 0th June 2012, 798 will still be on farms on 0th June 2013.

Step 3

Of the 568 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 51 were still uncalved in 2010 (Ref 4). Of the 637 uncalved heifers on farms in 2010 (Ref 3), 54 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.087. Predicting forward for 2012, this suggests that of the 682 2-3 year heifers on farms in 2011, 60 will still be on farms on 0th June 2012. Similarly of the 666 2-3 year old heifers on farms on 0th June 2012, 58 will still be on farms on 0th June 2013.

Step 4

Of the 3085 (2466 + 568 + 51) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 2450 had a subsequent calving in 2010 (Ref 5). Of the 3565 (2877 + 637 + 51) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 3005 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.819. Predicting forward for 2011, this suggests that of the 3426 1-3+ year old heifers on farms in 2011, 2804 will have calved down by 0th June 2012. Similarly of the 3946 1-3+ year old heifers on farms on 0th June 2012, 3230 will have calved down by 0th June 2013.

Step 5

There were 2001, 2559, 2659 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.21) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 2804 & 3231 respectively (Ref 5). This compares with 2684 + 2778 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 120 in 2012 and 453 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 12981 cows for 2012 and 13435 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 0.9% in 2012 and then increase by a further 3.5% in 2013.

Current and future trends in the Dublin Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		25	25		24		23						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	419	*530*	*26.5%*	*555*	*4.7%*	*561*	*1.1%*					
2	**1-2 year old dairy heifers**	479	374	*-21.9%*	*465*	*24.3%*	*426*	*-8.4%*	*461*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	219	269	*22.8%*	*226*	*-16.0%*	*207*	*-8.4%*	*224*		*242*		**Step 2**
4	**>3 year old uncalved dairy heifers**	23	19	*-17.4%*	*44*	*131.6%*	*28*	*-36.4%*	*30*		*32*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	369	*309*	*-16.3%*	*360*	*16.5%*	*401*	*11.4%*	*360*	*-10.2%*	*389*	*8.1%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	334	460	*37.7%*	399	*-13.3%*	562	*40.9%*	*517*		*488*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**2,080**	**2,006**	***-3.6%***	**2,018**	***0.6%***	**1,935**	***-4.1%***	***1,778***	***-8.1%***	***1,680***	***-5.5%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 530 0-1 year old heifers on farms in 2009 (Ref 1), 465 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 555 0-1 year old heifers on farms in 2010 (Ref 1), 426 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.822. Predicting forward for 2012, this suggests that of the 561 0-1 year heifers born on farms in 2011, 461 will still be on farms on 0th June 2012 (i.e. 561 * 0.822 = 461).*

Step 2

Of the 374 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 226 were still uncalved in 2010 (Ref 3). Of the 465 uncalved heifers on farms in 2010 (Ref 2), 207 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.525. Predicting forward for 2012, this suggests that of the 426 1-2 year heifers on farms in 2011, 224 will still be on farms on 0th June 2012. Similarly of the 461 1-2 year old heifers on farms on 0th June 2012, 242 will still be on farms on 0th June 2013.

Step 3

Of the 269 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 44 were still uncalved in 2010 (Ref 4). Of the 226 uncalved heifers on farms in 2010 (Ref 3), 28 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.144. Predicting forward for 2012, this suggests that of the 207 2-3 year heifers on farms in 2011, 30 will still be on farms on 0th June 2012. Similarly of the 224 2-3 year old heifers on farms on 0th June 2012, 32 will still be on farms on 0th June 2013.

Step 4

Of the 662 (374 + 269 + 19) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 360 had a subsequent calving in 2010 (Ref 5). Of the 735 (465 + 226 + 44) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 401 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.545. Predicting forward for 2011, this suggests that of the 661 1-3+ year old heifers on farms in 2011, 360 will have calved down by 0th June 2012. Similarly of the 714 1-3+ year old heifers on farms on 0th June 2012, 389 will have calved down by 0th June 2013.

Step 5

There were 460, 399, 562 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.29) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 360 & 389 respectively (Ref 5). This compares with 517 + 488 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is -157 in 2012 and -99 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 1778 cows for 2012 and 1680 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to decrease by -8.1% in 2012 and then decrease by a further -5.5% in 2013.

Current and future trends in the Galway Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		458	439		425		413						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	4,198	5,331	27.0%	5,229	-1.9%	6,203	18.6%					
2	**1-2 year old dairy heifers**	3,796	3,925	3.4%	4,974	26.7%	4,900	-1.5%	5,800				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,356	1,354	-0.1%	1,454	7.4%	1,785	22.8%	1,787		2,115		**Step 2**
4	**>3 year old uncalved dairy heifers**	186	152	-18.3%	165	8.6%	149	-9.7%	200		200		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	3,927	3,952	0.6%	3,762	-4.8%	4,813	27.9%	4,861	1.0%	5,539	13.9%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	3,651	3,713	1.7%	4,167	12.2%	4,058	-2.6%	4,180		4,386		**Step 5**
7	**Total Dairy Cows -** *alive, on-farms & calved in the last 3 years.*	**22,773**	**22,613**	**-0.7%**	**21,925**	**-3.0%**	**22,677**	**3.4%**	**23,358**	**3.0%**	**24,512**	**4.9%**	**Step 6**

16% 19% 18% 23,358 24,512

Key Assumptions & Calculations

Step 1

Of the 5331 0-1 year old heifers on farms in 2009 (Ref 1), 4974 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 5229 0-1 year old heifers on farms in 2010 (Ref 1), 4900 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.935. Predicting forward for 2012, this suggests that of the 6203 0-1 year heifers born on farms in 2011, 5800 will still be on farms on 0th June 2012 (i.e. 6203 * 0.935 = 5800).*

Step 2

Of the 3925 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1454 were still uncalved in 2010 (Ref 3). Of the 4974 uncalved heifers on farms in 2010 (Ref 2), 1785 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.365. Predicting forward for 2012, this suggests that of the 4900 1-2 year heifers on farms in 2011, 1787 will still be on farms on 0th June 2012. Similarly of the 5800 1-2 year old heifers on farms on 0th June 2012, 2115 will still be on farms on 0th June 2013.

Step 3

Of the 1354 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 165 were still uncalved in 2010 (Ref 4). Of the 1454 uncalved heifers on farms in 2010 (Ref 3), 149 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.112. Predicting forward for 2012, this suggests that of the 1785 2-3 year heifers on farms in 2011, 200 will still be on farms on 0th June 2012. Similarly of the 1787 2-3 year old heifers on farms on 0th June 2012, 200 will still be on farms on 0th June 2013.

Step 4

Of the 5431 (3925 + 1354 + 152) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 3762 had a subsequent calving in 2010 (Ref 5). Of the 6593 (4974 + 1454 + 165) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 4813 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.711. Predicting forward for 2011, this suggests that of the 6834 1-3+ year old heifers on farms in 2011, 4861 will have calved down by 0th June 2012. Similarly of the 7787 1-3+ year old heifers on farms on 0th June 2012, 5539 will have calved down by 0th June 2013.

Step 5

There were 3713, 4167, 4058 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.18) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 4861 & 5539 respectively (Ref 5). This compares with 4180 + 4386 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 681 in 2012 and 1153 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 23358 cows for 2012 and 24512 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 3% in 2012 and then increase by a further 4.9% in 2013.

Current and future trends in the Kerry Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		1554	1511		1460		1439						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	16,614	*19,765*	*19.0%*	*19,779*	*0.1%*	*22,112*	*11.8%*					
2	**1-2 year old dairy heifers**	14,131	14,800	*4.7%*	*17,379*	*17.4%*	*17,286*	*-0.5%*	*19,384*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	3,033	3,287	*8.4%*	*3,748*	*14.0%*	*3,951*	*5.4%*	*4,154*		*4,658*		**Step 2**
4	**>3 year old uncalved dairy heifers**	431	311	*-27.8%*	*387*	*24.4%*	*394*	*1.8%*	*440*		*463*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	14,333	*13,693*	*-4.5%*	*13,351*	*-2.5%*	*16,796*	*25.8%*	*16,292*	*-3.0%*	*18,060*	*10.8%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	11,740	14,805	*26.1%*	15,664	*5.8%*	14,636	*-6.6%*	*14,888*		*15,369*		**Step 5**
7	**Total Dairy Cows -** *alive, on-farms & calved in the last 3 years.*	**81,147**	**80,501**	***-0.8%***	**78,505**	***-2.5%***	**81,742**	***4.1%***	***83,147***	***1.7%***	***85,837***	***3.2%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 19765 0-1 year old heifers on farms in 2009 (Ref 1), 17379 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 19779 0-1 year old heifers on farms in 2010 (Ref 1), 17286 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.877. Predicting forward for 2012, this suggests that of the 22112 0-1 year heifers born on farms in 2011, 19384 will still be on farms on 0th June 2012 (i.e. 22112 * 0.877 = 19384).*

Step 2

Of the 14800 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 3748 were still uncalved in 2010 (Ref 3). Of the 17379 uncalved heifers on farms in 2010 (Ref 2), 3951 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.24. Predicting forward for 2012, this suggests that of the 17286 1-2 year heifers on farms in 2011, 4154 will still be on farms on 0th June 2012. Similarly of the 19384 1-2 year old heifers on farms on 0th June 2012, 4658 will still be on farms on 0th June 2013.

Step 3

Of the 3287 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 387 were still uncalved in 2010 (Ref 4). Of the 3748 uncalved heifers on farms in 2010 (Ref 3), 394 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.111. Predicting forward for 2012, this suggests that of the 3951 2-3 year heifers on farms in 2011, 440 will still be on farms on 0th June 2012. Similarly of the 4154 2-3 year old heifers on farms on 0th June 2012, 463 will still be on farms on 0th June 2013.

Step 4

Of the 18398 (14800 + 3287 + 311) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 13351 had a subsequent calving in 2010 (Ref 5). Of the 21514 (17379 + 3748 + 387) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 16796 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.753. Predicting forward for 2011, this suggests that of the 21631 1-3+ year old heifers on farms in 2011, 16292 will have calved down by 0th June 2012. Similarly of the 23977 1-3+ year old heifers on farms on 0th June 2012, 18059 will have calved down by 0th June 2013.

Step 5

There were 14805, 15664, 14636 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.18) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 16292 & 18060 respectively (Ref 5). This compares with 14888 + 15369 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 1405 in 2012 and 2691 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 83147 cows for 2012 and 85837 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 1.7% in 2012 and then increase by a further 3.2% in 2013.

Current and future trends in the Kildare Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		153	144		142		137						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	2,302	*2,719*	*18.1%*	*2,949*	*8.5%*	*3,054*	*3.6%*					
2	**1-2 year old dairy heifers**	1,992	2,153	*8.1%*	*2,494*	*15.8%*	*2,731*	*9.5%*	*2,815*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,019	965	*-5.3%*	*955*	*-1.0%*	*1,014*	*6.2%*	*1,161*		*1,196*		**Step 2**
4	**>3 year old uncalved dairy heifers**	119	126	*5.9%*	*107*	*-15.1%*	*82*	*-23.4%*	*100*		*114*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	2,016	*1,890*	*-6.3%*	*2,016*	*6.7%*	*2,186*	*8.4%*	*2,365*	*8.2%*	*2,519*	*6.5%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	1,688	1,982	*17.4%*	1,995	*0.7%*	2,210	*10.8%*	*2,237*		*2,287*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**10,414**	**10,277**	***-1.3%***	**10,247**	***-0.3%***	**10,302**	***0.5%***	***10,430***	***1.2%***	***10,662***	***2.2%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 2719 0-1 year old heifers on farms in 2009 (Ref 1), 2494 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 2949 0-1 year old heifers on farms in 2010 (Ref 1), 2731 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.922. Predicting forward for 2012, this suggests that of the 3054 0-1 year heifers born on farms in 2011, 2815 will still be on farms on 0th June 2012 (i.e. 3054 * 0.922 = 2815).*

Step 2

Of the 2153 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 955 were still uncalved in 2010 (Ref 3). Of the 2494 uncalved heifers on farms in 2010 (Ref 2), 1014 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.425. Predicting forward for 2012, this suggests that of the 2731 1-2 year heifers on farms in 2011, 1161 will still be on farms on 0th June 2012. Similarly of the 2815 1-2 year old heifers on farms on 0th June 2012, 1196 will still be on farms on 0th June 2013.

Step 3

Of the 965 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 107 were still uncalved in 2010 (Ref 4). Of the 955 uncalved heifers on farms in 2010 (Ref 3), 82 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.098. Predicting forward for 2012, this suggests that of the 1014 2-3 year heifers on farms in 2011, 100 will still be on farms on 0th June 2012. Similarly of the 1161 2-3 year old heifers on farms on 0th June 2012, 114 will still be on farms on 0th June 2013.

Step 4

Of the 3244 (2153 + 965 + 126) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 2016 had a subsequent calving in 2010 (Ref 5). Of the 3556 (2494 + 955 + 107) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 2186 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.618. Predicting forward for 2011, this suggests that of the 3827 1-3+ year old heifers on farms in 2011, 2365 will have calved down by 0th June 2012. Similarly of the 4075 1-3+ year old heifers on farms on 0th June 2012, 2518 will have calved down by 0th June 2013.

Step 5

There were 1982, 1995, 2210 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.21) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 2365 & 2519 respectively (Ref 5). This compares with 2237 + 2287 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 128 in 2012 and 232 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 10430 cows for 2012 and 10662 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 1.2% in 2012 and then increase by a further 2.2% in 2013.

Current and future trends in the Kilkenny Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		837	821		814		794						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	12,166	*13,937*	*14.6%*	*14,944*	*7.2%*	*17,246*	*15.4%*					
2	**1-2 year old dairy heifers**	10,785	11,281	*4.6%*	*12,772*	*13.2%*	*13,720*	*7.4%*	*15,819*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	2,688	2,982	*10.9%*	*3,118*	*4.6%*	*3,395*	*8.9%*	*3,720*		*4,289*		**Step 2**
4	**>3 year old uncalved dairy heifers**	233	260	*11.6%*	*293*	*12.7%*	*325*	*10.9%*	*344*		*377*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	9,881	*10,043*	*1.6%*	*10,747*	*7.0%*	*11,969*	*11.4%*	*12,902*	*7.8%*	*14,709*	*14.0%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	7,644	8,876	*16.1%*	8,591	*-3.2%*	10,315	*20.1%*	*10,720*		*11,345*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**50,068**	**51,478**	***2.8%***	**53,382**	***3.7%***	**55,532**	***4.0%***	***57,714***	***3.9%***	***61,078***	***5.8%***	**Step 6**

17% 16% 19% 57,714 61,078

Key Assumptions & Calculations

Step 1

Of the 13937 0-1 year old heifers on farms in 2009 (Ref 1), 12772 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 14944 0-1 year old heifers on farms in 2010 (Ref 1), 13720 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.917. Predicting forward for 2012, this suggests that of the 17246 0-1 year heifers born on farms in 2011, 15819 will still be on farms on 0th June 2012 (i.e. 17246 * 0.917 = 15819).*

Step 2

Of the 11281 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 3118 were still uncalved in 2010 (Ref 3). Of the 12772 uncalved heifers on farms in 2010 (Ref 2), 3395 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.271. Predicting forward for 2012, this suggests that of the 13720 1-2 year heifers on farms in 2011, 3720 will still be on farms on 0th June 2012. Similarly of the 15819 1-2 year old heifers on farms on 0th June 2012, 4289 will still be on farms on 0th June 2013.

Step 3

Of the 2982 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 293 were still uncalved in 2010 (Ref 4). Of the 3118 uncalved heifers on farms in 2010 (Ref 3), 325 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.101. Predicting forward for 2012, this suggests that of the 3395 2-3 year heifers on farms in 2011, 344 will still be on farms on 0th June 2012. Similarly of the 3720 2-3 year old heifers on farms on 0th June 2012, 377 will still be on farms on 0th June 2013.

Step 4

Of the 14523 (11281 + 2982 + 260) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 10747 had a subsequent calving in 2010 (Ref 5). Of the 16183 (12772 + 3118 + 293) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 11969 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.74. Predicting forward for 2011, this suggests that of the 17440 1-3+ year old heifers on farms in 2011, 12902 will have calved down by 0th June 2012. Similarly of the 19882 1-3+ year old heifers on farms on 0th June 2012, 14708 will have calved down by 0th June 2013.

Step 5

There were 8876, 8591, 10315 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.19) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 12902 & 14709 respectively (Ref 5). This compares with 10720 + 11345 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 2182 in 2012 and 3364 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 57714 cows for 2012 and 61078 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 3.9% in 2012 and then increase by a further 5.8% in 2013.

Current and future trends in the Laois Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		431	423		411		405						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	5,914	6,976	18.0%	7,313	4.8%	8,668	18.5%					
2	**1-2 year old dairy heifers**	5,294	5,285	-0.2%	6,369	20.5%	6,677	4.8%	7,914				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,689	1,654	-2.1%	1,767	6.8%	1,925	8.9%	2,125		2,519		**Step 2**
4	**>3 year old uncalved dairy heifers**	197	182	-7.6%	205	12.6%	197	-3.9%	227		250		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	4,921	4,889	-0.7%	4,911	0.4%	5,793	18.0%	6,090	5.1%	7,105	16.7%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	4,193	4,477	6.8%	4,587	2.5%	5,207	13.5%	5,350		5,635		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**24,888**	**25,427**	***2.2%***	**25,858**	***1.7%***	**26,884**	***4.0%***	***27,623***	***2.8%***	***29,093***	***5.3%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 6976 0-1 year old heifers on farms in 2009 (Ref 1), 6369 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 7313 0-1 year old heifers on farms in 2010 (Ref 1), 6677 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.913. Predicting forward for 2012, this suggests that of the 8668 0-1 year heifers born on farms in 2011, 7914 will still be on farms on 0th June 2012 (i.e. 8668 * 0.913 = 7914).*

Step 2

Of the 5285 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1767 were still uncalved in 2010 (Ref 3). Of the 6369 uncalved heifers on farms in 2010 (Ref 2), 1925 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.318. Predicting forward for 2012, this suggests that of the 6677 1-2 year heifers on farms in 2011, 2125 will still be on farms on 0th June 2012. Similarly of the 7914 1-2 year old heifers on farms on 0th June 2012, 2519 will still be on farms on 0th June 2013.

Step 3

Of the 1654 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 205 were still uncalved in 2010 (Ref 4). Of the 1767 uncalved heifers on farms in 2010 (Ref 3), 197 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.118. Predicting forward for 2012, this suggests that of the 1925 2-3 year heifers on farms in 2011, 227 will still be on farms on 0th June 2012. Similarly of the 2125 2-3 year old heifers on farms on 0th June 2012, 250 will still be on farms on 0th June 2013.

Step 4

Of the 7121 (5285 + 1654 + 182) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 4911 had a subsequent calving in 2010 (Ref 5). Of the 8341 (6369 + 1767 + 205) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 5793 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.692. Predicting forward for 2011, this suggests that of the 8799 1-3+ year old heifers on farms in 2011, 6089 will have calved down by 0th June 2012. Similarly of the 10265 1-3+ year old heifers on farms on 0th June 2012, 7104 will have calved down by 0th June 2013.

Step 5

There were 4477, 4587, 5207 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.19) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 6090 & 7105 respectively (Ref 5). This compares with 5350 + 5635 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 739 in 2012 and 1470 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 27623 cows for 2012 and 29093 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.8% in 2012 and then increase by a further 5.3% in 2013.

Current and future trends in the Leitrim Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		43	42		42		41						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	427	*443*	*3.7%*	*464*	*4.7%*	*467*	*0.6%*					
2	**1-2 year old dairy heifers**	353	380	*7.6%*	*417*	*9.7%*	*405*	*-2.9%*	*424*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	209	194	*-7.2%*	*218*	*12.4%*	*236*	*8.3%*	*231*		*241*		**Step 2**
4	**>3 year old uncalved dairy heifers**	15	18	*20.0%*	*14*	*-22.2%*	*18*	*28.6%*	*18*		*18*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	311	*323*	*3.9%*	*324*	*0.3%*	*370*	*14.2%*	*368*	*-0.5%*	*376*	*2.1%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	315	375	*19.0%*	342	*-8.8%*	307	*-10.2%*	*316*		*324*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**1,849**	**1,788**	***-3.3%***	**1,761**	***-1.5%***	**1,849**	***5.0%***	***1,901***	***2.8%***	***1,953***	***2.7%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 443 0-1 year old heifers on farms in 2009 (Ref 1), 417 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 464 0-1 year old heifers on farms in 2010 (Ref 1), 405 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.907. Predicting forward for 2012, this suggests that of the 467 0-1 year heifers born on farms in 2011, 424 will still be on farms on 0th June 2012 (i.e. 467 * 0.907 = 424).*

Step 2

Of the 380 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 218 were still uncalved in 2010 (Ref 3). Of the 417 uncalved heifers on farms in 2010 (Ref 2), 236 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.57. Predicting forward for 2012, this suggests that of the 405 1-2 year heifers on farms in 2011, 231 will still be on farms on 0th June 2012. Similarly of the 424 1-2 year old heifers on farms on 0th June 2012, 241 will still be on farms on 0th June 2013.

Step 3

Of the 194 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 14 were still uncalved in 2010 (Ref 4). Of the 218 uncalved heifers on farms in 2010 (Ref 3), 18 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.077. Predicting forward for 2012, this suggests that of the 236 2-3 year heifers on farms in 2011, 18 will still be on farms on 0th June 2012. Similarly of the 231 2-3 year old heifers on farms on 0th June 2012, 18 will still be on farms on 0th June 2013.

Step 4

Of the 592 (380 + 194 + 18) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 324 had a subsequent calving in 2010 (Ref 5). Of the 649 (417 + 218 + 14) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 370 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.559. Predicting forward for 2011, this suggests that of the 659 1-3+ year old heifers on farms in 2011, 368 will have calved down by 0th June 2012. Similarly of the 672 1-3+ year old heifers on farms on 0th June 2012, 375 will have calved down by 0th June 2013.

Step 5

There were 375, 342, 307 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.17) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 368 & 376 respectively (Ref 5). This compares with 316 + 324 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 52 in 2012 and 52 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 1901 cows for 2012 and 1953 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.8% in 2012 and then increase by a further 2.7% in 2013.

Current and future trends in the Limerick Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		1390	1365		1326		1301						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	16,425	19,706	20.0%	20,134	2.2%	23,130	14.9%					
2	**1-2 year old dairy heifers**	14,868	15,334	3.1%	17,671	15.2%	18,369	3.9%	20,922				**Step 1**
3	**2-3 year old uncalved dairy heifers**	4,128	4,196	1.6%	4,312	2.8%	4,642	7.7%	4,995		5,690		**Step 2**
4	**>3 year old uncalved dairy heifers**	480	497	3.5%	607	22.1%	472	-22.2%	590		635		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	14,647	14,734	0.6%	14,332	-2.7%	17,327	20.9%	17,409	0.5%	19,650	12.9%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	11,641	13,978	20.1%	15,018	7.4%	14,452	-3.8%	14,880		15,572		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**82,734**	**82,967**	**0.3%**	**81,803**	**-1.4%**	**85,293**	**4.3%**	**87,821**	**3.0%**	**91,900**	**4.6%**	**Step 6**

17% 18% 17% 87,821 91,900

Key Assumptions & Calculations

Step 1

Of the 19706 0-1 year old heifers on farms in 2009 (Ref 1), 17671 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 20134 0-1 year old heifers on farms in 2010 (Ref 1), 18369 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.905. Predicting forward for 2012, this suggests that of the 23130 0-1 year heifers born on farms in 2011, 20922 will still be on farms on 0th June 2012 (i.e. 23130 * 0.905 = 20922).*

Step 2

Of the 15334 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 4312 were still uncalved in 2010 (Ref 3). Of the 17671 uncalved heifers on farms in 2010 (Ref 2), 4642 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.272. Predicting forward for 2012, this suggests that of the 18369 1-2 year heifers on farms in 2011, 4995 will still be on farms on 0th June 2012. Similarly of the 20922 1-2 year old heifers on farms on 0th June 2012, 5690 will still be on farms on 0th June 2013.

Step 3

Of the 4196 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 607 were still uncalved in 2010 (Ref 4). Of the 4312 uncalved heifers on farms in 2010 (Ref 3), 472 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.127. Predicting forward for 2012, this suggests that of the 4642 2-3 year heifers on farms in 2011, 590 will still be on farms on 0th June 2012. Similarly of the 4995 2-3 year old heifers on farms on 0th June 2012, 635 will still be on farms on 0th June 2013.

Step 4

Of the 20027 (15334 + 4196 + 497) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 14332 had a subsequent calving in 2010 (Ref 5). Of the 22590 (17671 + 4312 + 607) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 17327 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.741. Predicting forward for 2011, this suggests that of the 23483 1-3+ year old heifers on farms in 2011, 17408 will have calved down by 0th June 2012. Similarly of the 26507 1-3+ year old heifers on farms on 0th June 2012, 19650 will have calved down by 0th June 2013.

Step 5

There were 13978, 15018, 14452 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.17) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 17409 & 19650 respectively (Ref 5). This compares with 14880 + 15572 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 2528 in 2012 and 4079 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 87821 cows for 2012 and 91900 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 3% in 2012 and then increase by a further 4.6% in 2013.

Current and future trends in the Longford Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		140	135		127		127						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	1,181	*1,491*	*26.2%*	*1,554*	*4.2%*	*1,882*	*21.1%*					
2	**1-2 year old dairy heifers**	992	1,073	*8.2%*	*1,360*	*26.7%*	*1,399*	*2.9%*	*1,705*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	332	373	*12.3%*	*376*	*0.8%*	*504*	*34.0%*	*504*		*615*		**Step 2**
4	**>3 year old uncalved dairy heifers**	35	36	*2.9%*	*46*	*27.8%*	*54*	*17.4%*	*67*		*67*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	1,292	*1,085*	*-16.0%*	*1,320*	*21.7%*	*1,444*	*9.4%*	*1,664*	*15.3%*	*1,937*	*16.4%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	671	1,142	*70.2%*	1,208	*5.8%*	1,178	*-2.5%*	*1,251*		*1,353*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**6,678**	**6,451**	***-3.4%***	**6,465**	***0.2%***	**6,720**	***3.9%***	***7,134***	***6.2%***	***7,718***	***8.2%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 1491 0-1 year old heifers on farms in 2009 (Ref 1), 1360 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 1554 0-1 year old heifers on farms in 2010 (Ref 1), 1399 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.906. Predicting forward for 2012, this suggests that of the 1882 0-1 year heifers born on farms in 2011, 1705 will still be on farms on 0th June 2012 (i.e. 1882 * 0.906 = 1705).*

Step 2

Of the 1073 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 376 were still uncalved in 2010 (Ref 3). Of the 1360 uncalved heifers on farms in 2010 (Ref 2), 504 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.361. Predicting forward for 2012, this suggests that of the 1399 1-2 year heifers on farms in 2011, 504 will still be on farms on 0th June 2012. Similarly of the 1705 1-2 year old heifers on farms on 0th June 2012, 615 will still be on farms on 0th June 2013.

Step 3

Of the 373 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 46 were still uncalved in 2010 (Ref 4). Of the 376 uncalved heifers on farms in 2010 (Ref 3), 54 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.133. Predicting forward for 2012, this suggests that of the 504 2-3 year heifers on farms in 2011, 67 will still be on farms on 0th June 2012. Similarly of the 504 2-3 year old heifers on farms on 0th June 2012, 67 will still be on farms on 0th June 2013.

Step 4

Of the 1482 (1073 + 373 + 36) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 1320 had a subsequent calving in 2010 (Ref 5). Of the 1782 (1360 + 376 + 46) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 1444 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.851. Predicting forward for 2011, this suggests that of the 1957 1-3+ year old heifers on farms in 2011, 1664 will have calved down by 0th June 2012. Similarly of the 2277 1-3+ year old heifers on farms on 0th June 2012, 1936 will have calved down by 0th June 2013.

Step 5

There were 1142, 1208, 1178 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.18) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 1664 & 1937 respectively (Ref 5). This compares with 1251 + 1353 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 414 in 2012 and 584 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 7134 cows for 2012 and 7718 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 6.2% in 2012 and then increase by a further 8.2% in 2013.

Current and future trends in the Louth Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		160	158		158		155						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	2,934	*3,266*	*11.3%*	*3,524*	*7.9%*	*4,082*	*15.8%*					
2	**1-2 year old dairy heifers**	2,480	2,737	*10.4%*	*3,001*	*9.6%*	*3,235*	*7.8%*	*3,749*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,148	1,219	*6.2%*	*1,225*	*0.5%*	*1,228*	*0.2%*	*1,386*		*1,606*		**Step 2**
4	**>3 year old uncalved dairy heifers**	102	112	*9.8%*	*125*	*11.6%*	*137*	*9.6%*	*132*		*149*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	2,393	*2,464*	*3.0%*	*2,630*	*6.7%*	*2,867*	*9.0%*	*3,003*	*4.7%*	*3,438*	*14.5%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	1,887	2,059	*9.1%*	2,147	*4.3%*	2,659	*23.8%*	*2,718*		*2,841*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**11,581**	**11,951**	***3.2%***	**12,519**	***4.8%***	**12,832**	***2.5%***	***13,117***	***2.2%***	***13,713***	***4.5%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 3266 0-1 year old heifers on farms in 2009 (Ref 1), 3001 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 3524 0-1 year old heifers on farms in 2010 (Ref 1), 3235 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.918. Predicting forward for 2012, this suggests that of the 4082 0-1 year heifers born on farms in 2011, 3749 will still be on farms on 0th June 2012 (i.e. 4082 * 0.918 = 3749).*

Step 2

Of the 2737 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1225 were still uncalved in 2010 (Ref 3). Of the 3001 uncalved heifers on farms in 2010 (Ref 2), 1228 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.428. Predicting forward for 2012, this suggests that of the 3235 1-2 year heifers on farms in 2011, 1386 will still be on farms on 0th June 2012. Similarly of the 3749 1-2 year old heifers on farms on 0th June 2012, 1606 will still be on farms on 0th June 2013.

Step 3

Of the 1219 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 125 were still uncalved in 2010 (Ref 4). Of the 1225 uncalved heifers on farms in 2010 (Ref 3), 137 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.107. Predicting forward for 2012, this suggests that of the 1228 2-3 year heifers on farms in 2011, 132 will still be on farms on 0th June 2012. Similarly of the 1386 2-3 year old heifers on farms on 0th June 2012, 149 will still be on farms on 0th June 2013.

Step 4

Of the 4068 (2737 + 1219 + 112) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 2630 had a subsequent calving in 2010 (Ref 5). Of the 4351 (3001 + 1225 + 125) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 2867 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.653. Predicting forward for 2011, this suggests that of the 4600 1-3+ year old heifers on farms in 2011, 3002 will have calved down by 0th June 2012. Similarly of the 5266 1-3+ year old heifers on farms on 0th June 2012, 3437 will have calved down by 0th June 2013.

Step 5

There were 2059, 2147, 2659 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.21) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 3003 & 3438 respectively (Ref 5). This compares with 2718 + 2841 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 285 in 2012 and 596 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 13117 cows for 2012 and 13713 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.2% in 2012 and then increase by a further 4.5% in 2013.

Current and future trends in the Mayo Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		281	272		253		250						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	2,645	*3,147*	*19.0%*	*3,047*	*-3.2%*	*3,393*	*11.4%*					
2	**1-2 year old dairy heifers**	2,289	2,469	*7.9%*	*2,827*	*14.5%*	*2,735*	*-3.3%*	*3,047*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	953	1,019	*6.9%*	*1,093*	*7.3%*	*1,191*	*9.0%*	*1,181*		*1,316*		**Step 2**
4	**>3 year old uncalved dairy heifers**	164	145	*-11.6%*	*134*	*-7.6%*	*141*	*5.2%*	*155*		*154*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	2,267	*2,133*	*-5.9%*	*2,108*	*-1.2%*	*2,601*	*23.4%*	*2,485*	*-4.5%*	*2,678*	*7.8%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	2,093	2,615	*24.9%*	2,566	*-1.9%*	2,385	*-7.1%*	*2,401*		*2,446*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**13,366**	**12,713**	***-4.9%***	**12,152**	***-4.4%***	**12,402**	***2.1%***	***12,486***	***0.7%***	***12,718***	***1.9%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 3147 0-1 year old heifers on farms in 2009 (Ref 1), 2827 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 3047 0-1 year old heifers on farms in 2010 (Ref 1), 2735 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.898. Predicting forward for 2012, this suggests that of the 3393 0-1 year heifers born on farms in 2011, 3047 will still be on farms on 0th June 2012 (i.e. 3393 * 0.898 = 3047).*

Step 2

Of the 2469 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1093 were still uncalved in 2010 (Ref 3). Of the 2827 uncalved heifers on farms in 2010 (Ref 2), 1191 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.432. Predicting forward for 2012, this suggests that of the 2735 1-2 year heifers on farms in 2011, 1181 will still be on farms on 0th June 2012. Similarly of the 3047 1-2 year old heifers on farms on 0th June 2012, 1316 will still be on farms on 0th June 2013.

Step 3

Of the 1019 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 134 were still uncalved in 2010 (Ref 4). Of the 1093 uncalved heifers on farms in 2010 (Ref 3), 141 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.13. Predicting forward for 2012, this suggests that of the 1191 2-3 year heifers on farms in 2011, 155 will still be on farms on 0th June 2012. Similarly of the 1181 2-3 year old heifers on farms on 0th June 2012, 154 will still be on farms on 0th June 2013.

Step 4

Of the 3633 (2469 + 1019 + 145) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 2108 had a subsequent calving in 2010 (Ref 5). Of the 4054 (2827 + 1093 + 134) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 2601 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.611. Predicting forward for 2011, this suggests that of the 4067 1-3+ year old heifers on farms in 2011, 2484 will have calved down by 0th June 2012. Similarly of the 4383 1-3+ year old heifers on farms on 0th June 2012, 2677 will have calved down by 0th June 2013.

Step 5

There were 2615, 2566, 2385 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.19) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 2485 & 2678 respectively (Ref 5). This compares with 2401 + 2446 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 84 in 2012 and 232 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 12486 cows for 2012 and 12718 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 0.7% in 2012 and then increase by a further 1.9% in 2013.

Current and future trends in the Meath Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		500	484		472		461						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	8,594	10,230	19.0%	10,669	4.3%	11,781	10.4%					
2	**1-2 year old dairy heifers**	7,627	7,855	3.0%	9,366	19.2%	9,864	5.3%	10,839				**Step 1**
3	**2-3 year old uncalved dairy heifers**	3,105	3,166	2.0%	3,496	10.4%	3,906	11.7%	4,252		4,672		**Step 2**
4	**>3 year old uncalved dairy heifers**	381	248	-34.9%	371	49.6%	363	-2.2%	432		470		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	7,490	7,246	-3.3%	7,665	5.8%	8,255	7.7%	9,215	11.6%	10,121	9.8%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	6,260	6,590	5.3%	6,609	0.3%	7,857	18.9%	8,082		8,420		**Step 5**
7	**Total Dairy Cows -** *alive, on-farms & calved in the last 3 years.*	**37,490**	**37,652**	**0.4%**	**38,664**	**2.7%**	**39,577**	**2.4%**	**40,710**	**2.9%**	**42,411**	**4.2%**	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 10230 0-1 year old heifers on farms in 2009 (Ref 1), 9366 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 10669 0-1 year old heifers on farms in 2010 (Ref 1), 9864 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.92. Predicting forward for 2012, this suggests that of the 11781 0-1 year heifers born on farms in 2011, 10839 will still be on farms on 0th June 2012 (i.e. 11781 * 0.92 = 10839).*

Step 2

Of the 7855 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 3496 were still uncalved in 2010 (Ref 3). Of the 9366 uncalved heifers on farms in 2010 (Ref 2), 3906 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.431. Predicting forward for 2012, this suggests that of the 9864 1-2 year heifers on farms in 2011, 4252 will still be on farms on 0th June 2012. Similarly of the 10839 1-2 year old heifers on farms on 0th June 2012, 4672 will still be on farms on 0th June 2013.

Step 3

Of the 3166 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 371 were still uncalved in 2010 (Ref 4). Of the 3496 uncalved heifers on farms in 2010 (Ref 3), 363 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.111. Predicting forward for 2012, this suggests that of the 3906 2-3 year heifers on farms in 2011, 432 will still be on farms on 0th June 2012. Similarly of the 4252 2-3 year old heifers on farms on 0th June 2012, 470 will still be on farms on 0th June 2013.

Step 4

Of the 11269 (7855 + 3166 + 248) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 7665 had a subsequent calving in 2010 (Ref 5). Of the 13233 (9366 + 3496 + 371) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 8255 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.652. Predicting forward for 2011, this suggests that of the 14133 1-3+ year old heifers on farms in 2011, 9214 will have calved down by 0th June 2012. Similarly of the 15522 1-3+ year old heifers on farms on 0th June 2012, 10120 will have calved down by 0th June 2013.

Step 5

There were 6590, 6609, 7857 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.2) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 9215 & 10121 respectively (Ref 5). This compares with 8082 + 8420 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 1133 in 2012 and 1701 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 40710 cows for 2012 and 42411 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.9% in 2012 and then increase by a further 4.2% in 2013.

Current and future trends in the Monaghan Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		473	463		442		439						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	4,402	5,616	27.6%	5,725	1.9%	6,358	11.1%					
2	**1-2 year old dairy heifers**	3,825	3,953	3.3%	5,112	29.3%	5,121	0.2%	5,737				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,290	1,378	6.8%	1,345	-2.4%	1,915	42.4%	1,830		2,051		**Step 2**
4	**>3 year old uncalved dairy heifers**	192	144	-25.0%	184	27.8%	168	-8.7%	247		237		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	3,837	3,825	-0.3%	3,776	-1.3%	4,626	22.5%	4,993	7.9%	5,417	8.5%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	3,552	4,176	17.6%	4,412	5.7%	4,211	-4.6%	4,338		4,514		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**21,935**	**21,632**	**-1.4%**	**21,098**	**-2.5%**	**21,644**	**2.6%**	**22,299**	**3.0%**	**23,202**	**4.0%**	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 5616 0-1 year old heifers on farms in 2009 (Ref 1), 5112 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 5725 0-1 year old heifers on farms in 2010 (Ref 1), 5121 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.902. Predicting forward for 2012, this suggests that of the 6358 0-1 year heifers born on farms in 2011, 5737 will still be on farms on 0th June 2012 (i.e. 6358 * 0.902 = 5737).*

Step 2

Of the 3953 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1345 were still uncalved in 2010 (Ref 3). Of the 5112 uncalved heifers on farms in 2010 (Ref 2), 1915 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.357. Predicting forward for 2012, this suggests that of the 5121 1-2 year heifers on farms in 2011, 1830 will still be on farms on 0th June 2012. Similarly of the 5737 1-2 year old heifers on farms on 0th June 2012, 2051 will still be on farms on 0th June 2013.

Step 3

Of the 1378 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 184 were still uncalved in 2010 (Ref 4). Of the 1345 uncalved heifers on farms in 2010 (Ref 3), 168 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.129. Predicting forward for 2012, this suggests that of the 1915 2-3 year heifers on farms in 2011, 247 will still be on farms on 0th June 2012. Similarly of the 1830 2-3 year old heifers on farms on 0th June 2012, 237 will still be on farms on 0th June 2013.

Step 4

Of the 5475 (3953 + 1378 + 144) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 3776 had a subsequent calving in 2010 (Ref 5). Of the 6641 (5112 + 1345 + 184) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 4626 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.693. Predicting forward for 2011, this suggests that of the 7204 1-3+ year old heifers on farms in 2011, 4993 will have calved down by 0th June 2012. Similarly of the 7815 1-3+ year old heifers on farms on 0th June 2012, 5416 will have calved down by 0th June 2013.

Step 5

There were 4176, 4412, 4211 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.19) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 4993 & 5417 respectively (Ref 5). This compares with 4338 + 4514 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 655 in 2012 and 903 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 22299 cows for 2012 and 23202 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 3% in 2012 and then increase by a further 4% in 2013.

Current and future trends in the Offaly Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		328	319		310		303						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	3,827	4,401	15.0%	4,721	7.3%	5,345	13.2%					
2	**1-2 year old dairy heifers**	3,298	3,466	5.1%	4,021	16.0%	4,275	6.3%	4,862				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,017	1,094	7.6%	1,153	5.4%	1,206	4.6%	1,352		1,538		**Step 2**
4	**>3 year old uncalved dairy heifers**	177	145	-18.1%	157	8.3%	142	-9.6%	161		180		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	3,573	3,349	-6.3%	3,377	0.8%	4,006	18.6%	4,131	3.1%	4,683	13.4%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	2,991	3,282	9.7%	3,320	1.2%	3,709	11.7%	3,779		3,930		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**18,630**	**18,413**	***-1.2%***	**18,205**	***-1.1%***	**18,560**	***2.0%***	***18,911***	***1.9%***	***19,665***	***4.0%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 4401 0-1 year old heifers on farms in 2009 (Ref 1), 4021 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 4721 0-1 year old heifers on farms in 2010 (Ref 1), 4275 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.91. Predicting forward for 2012, this suggests that of the 5345 0-1 year heifers born on farms in 2011, 4862 will still be on farms on 0th June 2012 (i.e. 5345 * 0.91 = 4862).*

Step 2

Of the 3466 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1153 were still uncalved in 2010 (Ref 3). Of the 4021 uncalved heifers on farms in 2010 (Ref 2), 1206 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.316. Predicting forward for 2012, this suggests that of the 4275 1-2 year heifers on farms in 2011, 1352 will still be on farms on 0th June 2012. Similarly of the 4862 1-2 year old heifers on farms on 0th June 2012, 1538 will still be on farms on 0th June 2013.

Step 3

Of the 1094 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 157 were still uncalved in 2010 (Ref 4). Of the 1153 uncalved heifers on farms in 2010 (Ref 3), 142 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.133. Predicting forward for 2012, this suggests that of the 1206 2-3 year heifers on farms in 2011, 161 will still be on farms on 0th June 2012. Similarly of the 1352 2-3 year old heifers on farms on 0th June 2012, 180 will still be on farms on 0th June 2013.

Step 4

Of the 4705 (3466 + 1094 + 145) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 3377 had a subsequent calving in 2010 (Ref 5). Of the 5331 (4021 + 1153 + 157) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 4006 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.735. Predicting forward for 2011, this suggests that of the 5623 1-3+ year old heifers on farms in 2011, 4130 will have calved down by 0th June 2012. Similarly of the 6374 1-3+ year old heifers on farms on 0th June 2012, 4682 will have calved down by 0th June 2013.

Step 5

There were 3282, 3320, 3709 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.2) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 4131 & 4683 respectively (Ref 5). This compares with 3779 + 3930 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 351 in 2012 and 753 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 18911 cows for 2012 and 19665 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 1.9% in 2012 and then increase by a further 4% in 2013.

Current and future trends in the Roscommon Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		83	80		75		73						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	814	*961*	*18.1%*	*891*	*-7.3%*	*1,100*	*23.5%*					
2	**1-2 year old dairy heifers**	695	719	*3.5%*	*868*	*20.7%*	*864*	*-0.5%*	*1,030*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	251	299	*19.1%*	*281*	*-6.0%*	*309*	*10.0%*	*323*		*385*		**Step 2**
4	**>3 year old uncalved dairy heifers**	30	59	*96.7%*	*34*	*-42.4%*	*27*	*-20.6%*	*32*		*34*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	734	*682*	*-7.1%*	*665*	*-2.5%*	*815*	*22.6%*	*784*	*-3.8%*	*905*	*15.4%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	567	802	*41.4%*	770	*-4.0%*	673	*-12.6%*	*689*		*720*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**4,137**	**3,989**	***-3.6%***	**3,778**	***-5.3%***	**3,966**	***5.0%***	***4,061***	***2.4%***	***4,245***	***4.5%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 961 0-1 year old heifers on farms in 2009 (Ref 1), 868 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 891 0-1 year old heifers on farms in 2010 (Ref 1), 864 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.936. Predicting forward for 2012, this suggests that of the 1100 0-1 year heifers born on farms in 2011, 1030 will still be on farms on 0th June 2012 (i.e. 1100 * 0.936 = 1030).*

Step 2

Of the 719 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 281 were still uncalved in 2010 (Ref 3). Of the 868 uncalved heifers on farms in 2010 (Ref 2), 309 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.373. Predicting forward for 2012, this suggests that of the 864 1-2 year heifers on farms in 2011, 323 will still be on farms on 0th June 2012. Similarly of the 1030 1-2 year old heifers on farms on 0th June 2012, 385 will still be on farms on 0th June 2013.

Step 3

Of the 299 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 34 were still uncalved in 2010 (Ref 4). Of the 281 uncalved heifers on farms in 2010 (Ref 3), 27 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.105. Predicting forward for 2012, this suggests that of the 309 2-3 year heifers on farms in 2011, 32 will still be on farms on 0th June 2012. Similarly of the 323 2-3 year old heifers on farms on 0th June 2012, 34 will still be on farms on 0th June 2013.

Step 4

Of the 1077 (719 + 299 + 59) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 665 had a subsequent calving in 2010 (Ref 5). Of the 1183 (868 + 281 + 34) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 815 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.653. Predicting forward for 2011, this suggests that of the 1200 1-3+ year old heifers on farms in 2011, 783 will have calved down by 0th June 2012. Similarly of the 1385 1-3+ year old heifers on farms on 0th June 2012, 904 will have calved down by 0th June 2013.

Step 5

There were 802, 770, 673 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.17) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 784 & 905 respectively (Ref 5). This compares with 689 + 720 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 95 in 2012 and 184 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 4061 cows for 2012 and 4245 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.4% in 2012 and then increase by a further 4.5% in 2013.

Current and future trends in the Sligo Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		137	130		121		115						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	1,263	*1,527*	*20.9%*	*1,463*	*-4.2%*	*1,653*	*13.0%*					
2	**1-2 year old dairy heifers**	1,007	1,195	*18.7%*	*1,357*	*13.6%*	*1,323*	*-2.5%*	*1,482*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	480	466	*-2.9%*	*516*	*10.7%*	*532*	*3.1%*	*545*		*610*		**Step 2**
4	**>3 year old uncalved dairy heifers**	85	64	*-24.7%*	*67*	*4.7%*	*65*	*-3.0%*	*72*		*74*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	965	*1,043*	*8.1%*	*992*	*-4.9%*	*1,289*	*29.9%*	*1,190*	*-7.7%*	*1,301*	*9.3%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	883	1,246	*41.1%*	1,221	*-2.0%*	1,151	*-5.7%*	*1,157*		*1,180*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**6,693**	**6,486**	***-3.1%***	**5,964**	***-8.0%***	**6,133**	***2.8%***	***6,166***	***0.5%***	***6,287***	***2.0%***	**Step 6**

19% 20% 19% 6,166 6,287

Key Assumptions & Calculations

Step 1

Of the 1527 0-1 year old heifers on farms in 2009 (Ref 1), 1357 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 1463 0-1 year old heifers on farms in 2010 (Ref 1), 1323 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.896. Predicting forward for 2012, this suggests that of the 1653 0-1 year heifers born on farms in 2011, 1482 will still be on farms on 0th June 2012 (i.e. 1653 * 0.896 = 1482).*

Step 2

Of the 1195 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 516 were still uncalved in 2010 (Ref 3). Of the 1357 uncalved heifers on farms in 2010 (Ref 2), 532 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.412. Predicting forward for 2012, this suggests that of the 1323 1-2 year heifers on farms in 2011, 545 will still be on farms on 0th June 2012. Similarly of the 1482 1-2 year old heifers on farms on 0th June 2012, 610 will still be on farms on 0th June 2013.

Step 3

Of the 466 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 67 were still uncalved in 2010 (Ref 4). Of the 516 uncalved heifers on farms in 2010 (Ref 3), 65 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.135. Predicting forward for 2012, this suggests that of the 532 2-3 year heifers on farms in 2011, 72 will still be on farms on 0th June 2012. Similarly of the 545 2-3 year old heifers on farms on 0th June 2012, 74 will still be on farms on 0th June 2013.

Step 4

Of the 1725 (1195 + 466 + 64) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 992 had a subsequent calving in 2010 (Ref 5). Of the 1940 (1357 + 516 + 67) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 1289 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.62. Predicting forward for 2011, this suggests that of the 1920 1-3+ year old heifers on farms in 2011, 1189 will have calved down by 0th June 2012. Similarly of the 2098 1-3+ year old heifers on farms on 0th June 2012, 1300 will have calved down by 0th June 2013.

Step 5

There were 1246, 1221, 1151 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.19) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 1190 & 1301 respectively (Ref 5). This compares with 1157 + 1180 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 33 in 2012 and 121 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 6166 cows for 2012 and 6287 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 0.5% in 2012 and then increase by a further 2% in 2013.

*Current and future trends in the Tipperary Herd**

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		709	703		681		672						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	***0-1 year old dairy heifers.***	11,670	*13,705*	*17.4%*	*14,113*	*3.0%*	*15,938*	*12.9%*					
2	***1-2 year old dairy heifers***	10,597	10,857	*2.5%*	*12,442*	*14.6%*	*12,878*	*3.5%*	*14,506*				***Step 1***
3	***2-3 year old uncalved dairy heifers***	2,349	2,465	*4.9%*	*2,639*	*7.1%*	*2,854*	*8.1%*	*3,042*		*3,427*		***Step 2***
4	***>3 year old uncalved dairy heifers***	239	236	*-1.3%*	*307*	*30.1%*	*229*	*-25.4%*	*302*		*321*		***Step 3***
5	***1st Lactation Cows -*** *alive on-farms & calved in the last 12 mths.*	10,005	*10,119*	*1.1%*	*10,283*	*1.6%*	*11,797*	*14.7%*	*12,171*	*3.2%*	*13,611*	*11.8%*	***Step 4***
6	**Net disposals -** (Total Sold - Bought in)	7,719	8,797	*14.0%*	9,369	*6.5%*	11,010	*17.5%*	*11,207*		*11,615*		***Step 5***
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**50,037**	**51,526**	***3.0%***	**52,304**	***1.5%***	**53,819**	***2.9%***	***54,783***	***1.8%***	***56,779***	***3.6%***	***Step 6***

17% 18% 20% 54,783 56,779

Key Assumptions & Calculations

Step 1

Of the 13705 0-1 year old heifers on farms in 2009 (Ref 1), 12442 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 14113 0-1 year old heifers on farms in 2010 (Ref 1), 12878 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.91. Predicting forward for 2012, this suggests that of the 15938 0-1 year heifers born on farms in 2011, 14506 will still be on farms on 0th June 2012 (i.e. 15938 * 0.91 = 14506).*

Step 2

Of the 10857 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 2639 were still uncalved in 2010 (Ref 3). Of the 12442 uncalved heifers on farms in 2010 (Ref 2), 2854 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.236. Predicting forward for 2012, this suggests that of the 12878 1-2 year heifers on farms in 2011, 3042 will still be on farms on 0th June 2012. Similarly of the 14506 1-2 year old heifers on farms on 0th June 2012, 3427 will still be on farms on 0th June 2013.

Step 3

Of the 2465 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 307 were still uncalved in 2010 (Ref 4). Of the 2639 uncalved heifers on farms in 2010 (Ref 3), 229 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.106. Predicting forward for 2012, this suggests that of the 2854 2-3 year heifers on farms in 2011, 302 will still be on farms on 0th June 2012. Similarly of the 3042 2-3 year old heifers on farms on 0th June 2012, 321 will still be on farms on 0th June 2013.

Step 4

Of the 13558 (10857 + 2465 + 236) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 10283 had a subsequent calving in 2010 (Ref 5). Of the 15388 (12442 + 2639 + 307) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 11797 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.763. Predicting forward for 2011, this suggests that of the 15961 1-3+ year old heifers on farms in 2011, 12170 will have calved down by 0th June 2012. Similarly of the 17849 1-3+ year old heifers on farms on 0th June 2012, 13611 will have calved down by 0th June 2013.

Step 5

There were 8797, 9369, 11010 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.2) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 12171 & 13611 respectively (Ref 5). This compares with 11207 + 11615 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 964 in 2012 and 1996 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 54783 cows for 2012 and 56779 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 1.8% in 2012 and then increase by a further 3.6% in 2013.

Current and future trends in the Waterford Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		709	703		681		672						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	11,670	13,705	17.4%	14,113	3.0%	15,938	12.9%					
2	**1-2 year old dairy heifers**	10,597	10,857	2.5%	12,442	14.6%	12,878	3.5%	14,506				**Step 1**
3	**2-3 year old uncalved dairy heifers**	2,349	2,465	4.9%	2,639	7.1%	2,854	8.1%	3,042		3,427		**Step 2**
4	**>3 year old uncalved dairy heifers**	239	236	-1.3%	307	30.1%	229	-25.4%	302		321		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	10,005	10,119	1.1%	10,283	1.6%	11,797	14.7%	12,171	3.2%	13,611	11.8%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	7,719	8,797	14.0%	9,369	6.5%	11,010	17.5%	11,207		11,615		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**50,037**	**51,526**	**3.0%**	**52,304**	**1.5%**	**53,819**	**2.9%**	**54,783**	**1.8%**	**56,779**	**3.6%**	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 13705 0-1 year old heifers on farms in 2009 (Ref 1), 12442 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 14113 0-1 year old heifers on farms in 2010 (Ref 1), 12878 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.91. Predicting forward for 2012, this suggests that of the 15938 0-1 year heifers born on farms in 2011, 14506 will still be on farms on 0th June 2012 (i.e. 15938 * 0.91 = 14506).*

Step 2

Of the 10857 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 2639 were still uncalved in 2010 (Ref 3). Of the 12442 uncalved heifers on farms in 2010 (Ref 2), 2854 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.236. Predicting forward for 2012, this suggests that of the 12878 1-2 year heifers on farms in 2011, 3042 will still be on farms on 0th June 2012. Similarly of the 14506 1-2 year old heifers on farms on 0th June 2012, 3427 will still be on farms on 0th June 2013.

Step 3

Of the 2465 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 307 were still uncalved in 2010 (Ref 4). Of the 2639 uncalved heifers on farms in 2010 (Ref 3), 229 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.106. Predicting forward for 2012, this suggests that of the 2854 2-3 year heifers on farms in 2011, 302 will still be on farms on 0th June 2012. Similarly of the 3042 2-3 year old heifers on farms on 0th June 2012, 321 will still be on farms on 0th June 2013.

Step 4

Of the 13558 (10857 + 2465 + 236) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 10283 had a subsequent calving in 2010 (Ref 5). Of the 15388 (12442 + 2639 + 307) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 11797 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.763. Predicting forward for 2011, this suggests that of the 15961 1-3+ year old heifers on farms in 2011, 12170 will have calved down by 0th June 2012. Similarly of the 17849 1-3+ year old heifers on farms on 0th June 2012, 13611 will have calved down by 0th June 2013.

Step 5

There were 8797, 9369, 11010 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.2) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 12171 & 13611 respectively (Ref 5). This compares with 11207 + 11615 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 964 in 2012 and 1996 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 54783 cows for 2012 and 56779 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 1.8% in 2012 and then increase by a further 3.6% in 2013.

Current and future trends in the Westmeath Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		256	249		240		229						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	3,481	4,316	24.0%	4,365	1.1%	4,842	10.9%					
2	**1-2 year old dairy heifers**	3,095	3,195	3.2%	3,891	21.8%	4,019	3.3%	4,412				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,191	1,318	10.7%	1,191	-9.6%	1,525	28.0%	1,537		1,687		**Step 2**
4	**>3 year old uncalved dairy heifers**	200	112	-44.0%	187	67.0%	140	-25.1%	198		199		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	3,133	3,333	6.4%	3,135	-5.9%	3,686	17.6%	3,915	6.2%	4,233	8.1%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	2,483	2,852	14.9%	3,137	10.0%	3,438	9.6%	3,520		3,643		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**16,004**	**16,387**	**2.4%**	**16,196**	**-1.2%**	**16,529**	**2.1%**	**16,924**	**2.4%**	**17,514**	**3.5%**	**Step 6**

17% 19% 21% 16,924 17,514

Key Assumptions & Calculations

Step 1

Of the 4316 0-1 year old heifers on farms in 2009 (Ref 1), 3891 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 4365 0-1 year old heifers on farms in 2010 (Ref 1), 4019 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.911. Predicting forward for 2012, this suggests that of the 4842 0-1 year heifers born on farms in 2011, 4412 will still be on farms on 0th June 2012 (i.e. 4842 * 0.911 = 4412).*

Step 2

Of the 3195 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1191 were still uncalved in 2010 (Ref 3). Of the 3891 uncalved heifers on farms in 2010 (Ref 2), 1525 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.382. Predicting forward for 2012, this suggests that of the 4019 1-2 year heifers on farms in 2011, 1537 will still be on farms on 0th June 2012. Similarly of the 4412 1-2 year old heifers on farms on 0th June 2012, 1687 will still be on farms on 0th June 2013.

Step 3

Of the 1318 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 187 were still uncalved in 2010 (Ref 4). Of the 1191 uncalved heifers on farms in 2010 (Ref 3), 140 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.13. Predicting forward for 2012, this suggests that of the 1525 2-3 year heifers on farms in 2011, 198 will still be on farms on 0th June 2012. Similarly of the 1537 2-3 year old heifers on farms on 0th June 2012, 199 will still be on farms on 0th June 2013.

Step 4

Of the 4625 (3195 + 1318 + 112) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 3135 had a subsequent calving in 2010 (Ref 5). Of the 5269 (3891 + 1191 + 187) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 3686 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.689. Predicting forward for 2011, this suggests that of the 5684 1-3+ year old heifers on farms in 2011, 3914 will have calved down by 0th June 2012. Similarly of the 6146 1-3+ year old heifers on farms on 0th June 2012, 4232 will have calved down by 0th June 2013.

Step 5

There were 2852, 3137, 3438 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.21) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 3915 & 4233 respectively (Ref 5). This compares with 3520 + 3643 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 395 in 2012 and 590 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 16924 cows for 2012 and 17514 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 2.4% in 2012 and then increase by a further 3.5% in 2013.

Current and future trends in the Wexford Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		734	720		714		702						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	9,347	*11,158*	*19.4%*	*11,622*	*4.2%*	*12,938*	*11.3%*					
2	**1-2 year old dairy heifers**	8,424	8,623	*2.4%*	*10,342*	*19.9%*	*10,607*	*2.6%*	*11,900*				**Step 1**
3	**2-3 year old uncalved dairy heifers**	2,645	2,828	*6.9%*	*2,893*	*2.3%*	*3,416*	*18.1%*	*3,531*		*3,962*		**Step 2**
4	**>3 year old uncalved dairy heifers**	330	356	*7.9%*	*395*	*11.0%*	*384*	*-2.8%*	*465*		*481*		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	8,684	*8,311*	*-4.3%*	*8,572*	*3.1%*	*9,888*	*15.4%*	*10,456*	*5.7%*	*11,536*	*10.3%*	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	5,688	5,712	*0.4%*	6,881	*20.5%*	8,745	*27.1%*	*9,006*		*9,392*		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**45,501**	**46,536**	***2.3%***	**47,625**	***2.3%***	**48,622**	***2.1%***	***50,072***	***3.0%***	***52,217***	***4.3%***	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 11158 0-1 year old heifers on farms in 2009 (Ref 1), 10342 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 11622 0-1 year old heifers on farms in 2010 (Ref 1), 10607 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.92. Predicting forward for 2012, this suggests that of the 12938 0-1 year heifers born on farms in 2011, 11900 will still be on farms on 0th June 2012 (i.e. 12938 * 0.92 = 11900).*

Step 2

Of the 8623 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 2893 were still uncalved in 2010 (Ref 3). Of the 10342 uncalved heifers on farms in 2010 (Ref 2), 3416 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.333. Predicting forward for 2012, this suggests that of the 10607 1-2 year heifers on farms in 2011, 3531 will still be on farms on 0th June 2012. Similarly of the 11900 1-2 year old heifers on farms on 0th June 2012, 3962 will still be on farms on 0th June 2013.

Step 3

Of the 2828 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 395 were still uncalved in 2010 (Ref 4). Of the 2893 uncalved heifers on farms in 2010 (Ref 3), 384 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.136. Predicting forward for 2012, this suggests that of the 3416 2-3 year heifers on farms in 2011, 465 will still be on farms on 0th June 2012. Similarly of the 3531 2-3 year old heifers on farms on 0th June 2012, 481 will still be on farms on 0th June 2013.

Step 4

Of the 11807 (8623 + 2828 + 356) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 8572 had a subsequent calving in 2010 (Ref 5). Of the 13630 (10342 + 2893 + 395) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 9888 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.726. Predicting forward for 2011, this suggests that of the 14407 1-3+ year old heifers on farms in 2011, 10455 will have calved down by 0th June 2012. Similarly of the 15896 1-3+ year old heifers on farms on 0th June 2012, 11536 will have calved down by 0th June 2013.

Step 5

There were 5712, 6881, 8745 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.18) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 10456 & 11536 respectively (Ref 5). This compares with 9006 + 9392 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is 1450 in 2012 and 2145 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 50072 cows for 2012 and 52217 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by 3% in 2012 and then increase by a further 4.3% in 2013.

Current and future trends in the Wicklow Herd*

** These calculations are based on trends from the ICBF cattle breeding database. Of the total 1.02 million dairy births per year (on CMMS), the ICBF database has a picture of over 87%. These are the herds that have signed a data release form, allowing ICBF use their CMMS data for cattle breeding purposes.*

		Actual on 30th June							Predicted				
Number of herds on which these stats are based		205	206		206		201						
Ref	Description	2008	2009	%	2010	%	2011	%	2012	%	2013	%	See notes
1	**0-1 year old dairy heifers.**	3,194	3,779	18.3%	4,048	7.1%	4,174	3.1%					
2	**1-2 year old dairy heifers**	3,006	3,013	0.2%	3,522	16.9%	3,671	4.2%	3,838				**Step 1**
3	**2-3 year old uncalved dairy heifers**	1,352	1,326	-1.9%	1,383	4.3%	1,516	9.6%	1,633		1,707		**Step 2**
4	**>3 year old uncalved dairy heifers**	149	173	16.1%	182	5.2%	169	-7.1%	197		212		**Step 3**
5	**1st Lactation Cows -** *alive on-farms & calved in the last 12 mths.*	2,842	2,866	0.8%	2,847	-0.7%	3,119	9.6%	3,332	6.8%	3,525	5.8%	**Step 4**
6	**Net disposals -** (Total Sold - Bought in)	2,462	2,491	1.2%	2,762	10.9%	3,503	26.8%	3,471		3,481		**Step 5**
7	***Total Dairy Cows -*** *alive, on-farms & calved in the last 3 years.*	**14,718**	**15,172**	**3.1%**	**15,360**	**1.2%**	**15,149**	**-1.4%**	**15,010**	**-0.9%**	**15,054**	**0.3%**	**Step 6**

Key Assumptions & Calculations

Step 1

Of the 3779 0-1 year old heifers on farms in 2009 (Ref 1), 3522 reappeared as 1-2 year old heifers in 2010 (Ref 2). Of the 4048 0-1 year old heifers on farms in 2010 (Ref 1), 3671 reappeared as 1-2 year old heifers in 2011 (Ref 2).

*Average % heifers staying on farms between 0-1 years and 1-2 years = 0.919. Predicting forward for 2012, this suggests that of the 4174 0-1 year heifers born on farms in 2011, 3838 will still be on farms on 0th June 2012 (i.e. 4174 * 0.919 = 3838).*

Step 2

Of the 3013 uncalved 1-2 year old heifers on farms in 2009 (Ref 2), 1383 were still uncalved in 2010 (Ref 3). Of the 3522 uncalved heifers on farms in 2010 (Ref 2), 1516 were still uncalved in 2011 (Ref 3).

Average % of 1-2 year old heifers remaining uncalved in subsequent 12 month period = 0.445. Predicting forward for 2012, this suggests that of the 3671 1-2 year heifers on farms in 2011, 1633 will still be on farms on 0th June 2012. Similarly of the 3838 1-2 year old heifers on farms on 0th June 2012, 1707 will still be on farms on 0th June 2013.

Step 3

Of the 1326 uncalved 2-3 year old heifers on farms in 2009 (Ref 3), 182 were still uncalved in 2010 (Ref 4). Of the 1383 uncalved heifers on farms in 2010 (Ref 3), 169 were still uncalved in 2011 (Ref 4).

Average % of 2-3 year old heifers remaining uncalved in subsequent 12 month period = 0.13. Predicting forward for 2012, this suggests that of the 1516 2-3 year heifers on farms in 2011, 197 will still be on farms on 0th June 2012. Similarly of the 1633 2-3 year old heifers on farms on 0th June 2012, 212 will still be on farms on 0th June 2013.

Step 4

Of the 4512 (3013 + 1326 + 173) uncalved 1-3+ year old heifers on farms in 2009 (Ref 2, 3, & 4), 2847 had a subsequent calving in 2010 (Ref 5). Of the 5087 (3522 + 1383 + 182) uncalved 1-3+ year old heifers on farms in 2010 (Ref 2, 3, & 4), 3119 had a subsequent calving in 2011 (Ref 5).

Average % of 1-3+ years old heifers having calved in the subsequent 12 month period = 0.622. Predicting forward for 2011, this suggests that of the 5356 1-3+ year old heifers on farms in 2011, 3331 will have calved down by 0th June 2012. Similarly of the 5666 1-3+ year old heifers on farms on 0th June 2012, 3525 will have calved down by 0th June 2013.

Step 5

There were 2491, 2762, 3503 cows disposed of in 2009, 2010 & 2011 respectively (Ref 6). These either died on farms, were culled to the factory, exported or sold to non ICBF herds. For purpose of calculation, we use the same percentage of disposal from the previous year (i.e. 0.23) for 2012 & 2013.

Step 6

The number of 1st calvers expected to calve down in 2012 & 2013 is 3332 & 3525 respectively (Ref 5). This compares with 3471 + 3481 cows expected to be disposed of in 2012 & 2013 (Ref 6). Expected surplus/deficit is -139 in 2012 and 44 in 2013. These figures are then reflected into total dairy cows (Ref 7) which are expected to be 15010 cows for 2012 and 15054 cows for 2013.

Key Conclusions. Based on trends from the ICBF cattle breeding database, dairy cow numbers are expected to increase by -0.9% in 2012 and then increase by a further 0.3% in 2013.