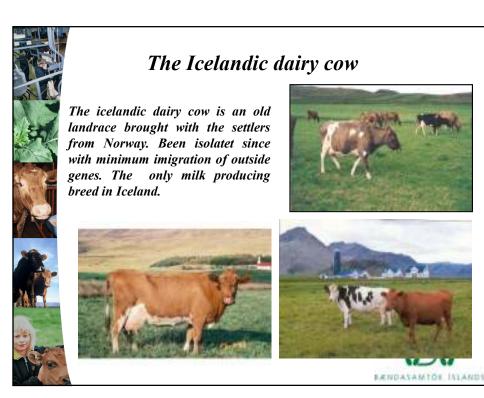


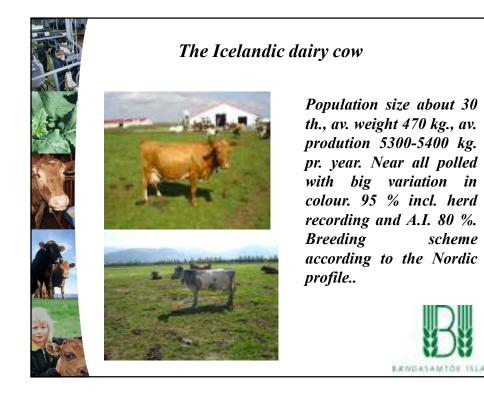


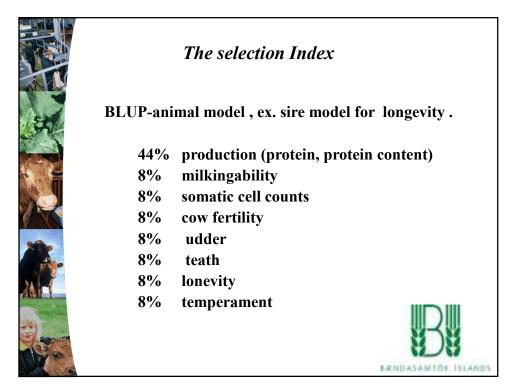
## **Optimum Selection approach**

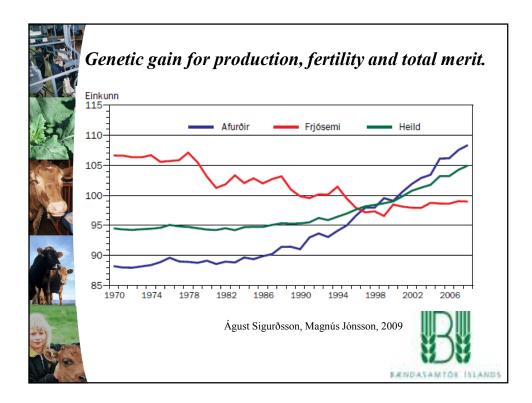
- The selection in reality quadratic i.e genetic gain can be obtained and the increase in inbreeding constrained at same time.
- The use of breeding animals depending, both on their breeding value and their kinship to the population .
- The breeding plan dynamic not static (Decision's not made on beforehand.)
- Insured that only candidates with  $a_i > o$  are chosen as breeding animals.



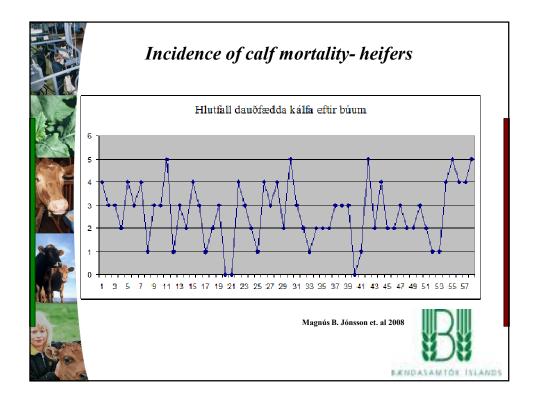


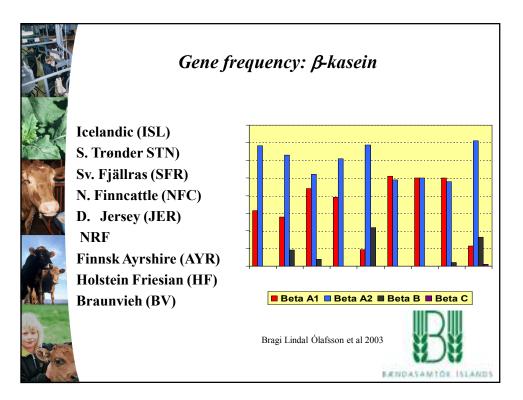




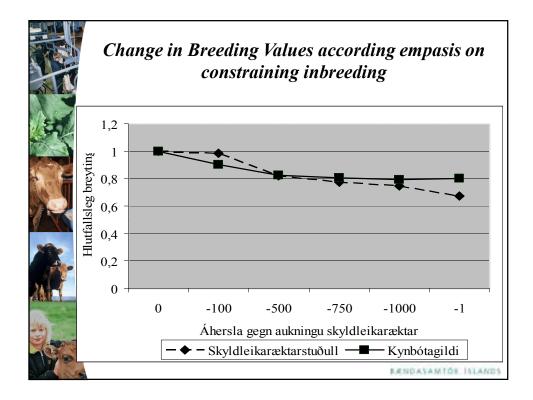


Inc	rease in inbre	eding (∆ <sub>F</sub> )pr. ge	en. and cha	nge in N <sub>e</sub>
	Árabil	Aukning í skyldleikarækt yfir kynslóð, %	Virk stofnstærð	
	1985 - 1990	0,34	147	
	1995 - 2000	0,42	118	
		Þorvaldur Kristjáns	son et.al, 2006	

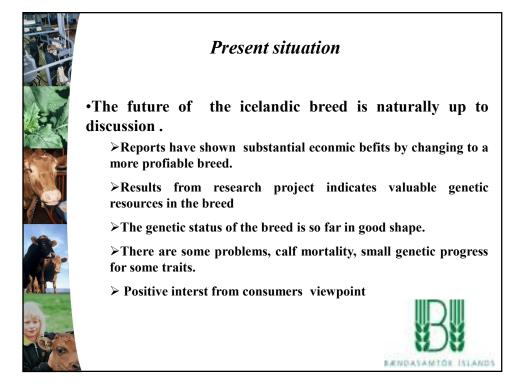


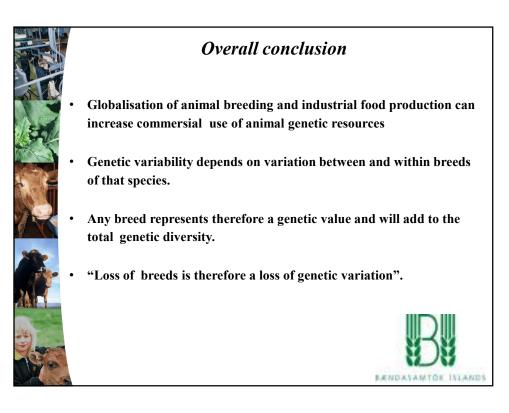


			Results f	from EVA	
-			Mean	Mean	Mean
XX	2005	Nr.	BV	kinship	F
	Bull f.	35	107,3	0,109	0,0358
A Y	Bull d.	574	115,4	0,095	0,0353
A					
			Mean	Mean	Mean
	2006	Nr.	BV	kinship	F
	Bull f.	12	109,9	0,115	0,0332
	Bull d.	937	115,3	0,092	0,0333



	roup of bulldd	ıms in 2005-200	06
Nafn	nauts	2005	2006
Kaðall-9401	7	15,2 %	19,5%
Punktur-940	)32	5,2%	12,4%
Smellur-920	28	5,4%	3,6%
Pinkill-9401	3	5,4%	4,6%
Almar-9001	9	3,5%	
Soldán-9501	0		8,9%
Total		34,7&	49,0%
Nr. of their	daughters	199	459
Total nr. of l	bulldams	574	937







## **Overall conclusion**

- We are, due to, Internatioal conventions obliged to preserve, as much as possible the genetic diversity. Here must scientists and breeding organisations play a leading role.
- Any breeds situation should be through a research programme before action taken about its future.
- The Icelandic breed is among those breeds and can have future role in icelandic agriculture and have also value in future concervation of genetic variability.
  - It seems most advisable to keep it as the main breed in icelandic milk produktion and that secure best preseving its gentetical values .



