



## Initiated Cattle Germplasm Evaluation Program in 1969

Planning Meetings 1967-1969

**US MARC Advisory Committee (Appointed by Sec Agriculture)** 

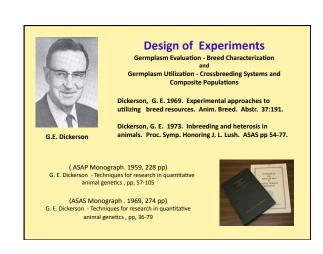
Ag Canada - Fredeen, Newman, Lawson, Rahnefeld

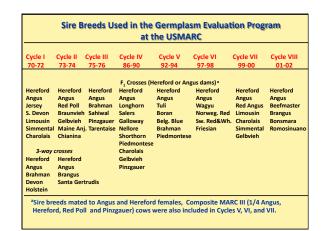
Al industry Representatives-

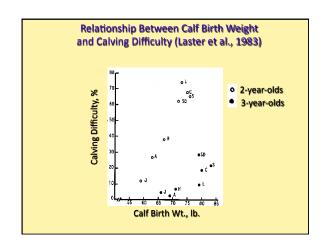
**Breed Associations Leaders and Representatives** 

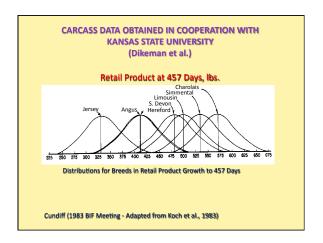
Technical Committees (NC-1, S-10, W-1)

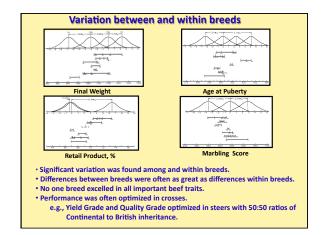
Kansas State University Cooperators (Tuma, Dikeman)





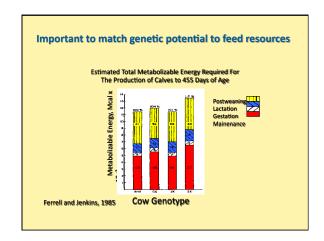


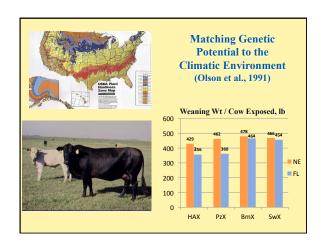






Breed group	Growth rate mature size	Lean to fat ratio	Age at puberty	Milk production		
Jersey (J)	х	х	х	xxxxx		
Hereford-Angus (Hax)	XX	XX	XXX	XX		
Red Poll (R)	XX	XX	XX	XXX		
South Devon (Sd)	XXX	XXX	XX	XXX		
Tarentaise (T)	XXX	XXX	XX	XXX		
Pinzgauer (P)	XXX	XXX	XX	XXX		
Sahiwal (Sw)	XX	XXX	XXXXX	XXX		
Brahman (Bm)	XXXX	XXX	XXXXX	XXX		
Braunvieh (B)	XXXX	XXXX	XX	XXXX		
Gelbvieh (G)	XXXX	XXXX	XX	XXXX		
Simmental (S)	XXXXX	XXXX	XXX	XXXX		
Maine Anjou (M)	XXXXX	XXXX	XXX	XXX		
Limousin (L)	XXX	XXXXX	XXXX	х		
Charolais (C)	XXXXX	XXXXX	XXXX	х		
Chianina (Ci)	XXXXX	XXXXX	XXXX	х		





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## **TRADEOFFS**

Bos indicus x Bos taurus crosses excel in

·Weaning weight per cow exposed ·Cow efficiency

but even in subtropical and tropical regions these advantages are tempered by:

 Older age at puberty Reduced meat tenderness

and in temperate regions in cold seasons increased calf mortality reduced rate and efficiency of gain

		_				
Can Maria		Brooksville				
	X X	FL X	OK X		TX X	LA
Boran	X		X		X	
Senepole		X		X		
Roinesindano	X	X				X
Bonsmara	X	X	Х			X

## A COMPILATION OF RESEARCH RESULTS INVOLVING TROPICALLY ADAPTED BEEF CATTLE BREEDS

Regional Project S-1013 S-243 and S-277 Multi-state Research Projects Southern Cooperative Series Bulletin 405

Proceedings: Tropically Adapted Breeds Southern Section ASAS February 8, 2005 Little Rock, Arkansas

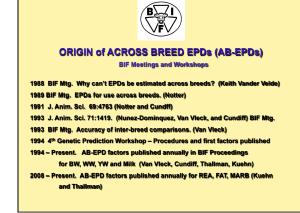


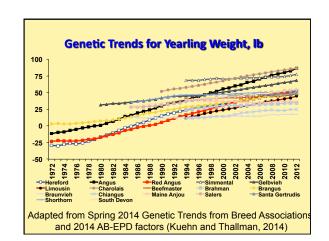
livestock/beef cattle/breeding genetics/trpoical+breeds.htm



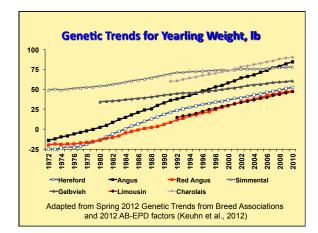
**Matching Genetic** Potential to the **Climatic Environment** 

- In hotter more humid climates of the gulf coast cattle with ~ 50% tropical adapted germplasm are more optimal.
- In more intermediate subtropics, cattle with ~25% tropically adapted germplasm are more optimal.

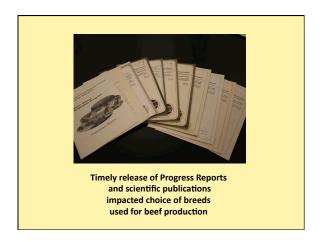




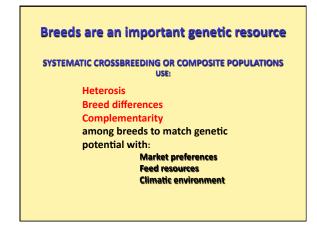
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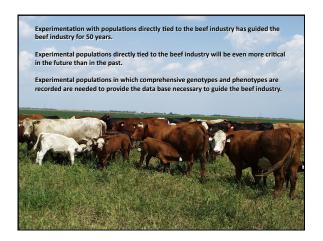


Breed	Growth rate and Mature size	Lean to fat ratio	Marbling	Tender- ness	Age at puberty	Milk pro- duction	Tropical Adaptatio
Jersev	Х	X	XXXX	XXX	X	XXXXX	X
Longhorn	X	XXX	XX	XX	XXX	XX	X
Wagyu	X	XXX	XXXX	XXX	XX	XX	X
Angus	XXXXX	XX	XXXXX	XXX	XX	XXXx	
Red Angus	XXXX	XX	XXXX	XXX	XX	XXX	
Hereford	XXXX	XX	XXX	XXX	XXX	XX	
Red Poll	XX	XX	XXX	XXX	XX	XXXX	
Devon	XX	XX	XXX	XXX	XXX	XX	
Shorthorn	XXXX	XX	XXXX	XXX	XX	XXXx	
Galloway	XX	XXX	XXX	XXX	XXX	XX	
Braunvieh	XXX	XXXX	XX	XX	XXXX	XX	X
Gelbvieh	XXXX	XXXXX	X	XX	XX	XXXX	
Holstein	XXXXX	XXXX	XXX	XX	XX	XXXXXX	
Maine Anjou	XXXX	XXXX	XX	XX	XXX	XXX	
Salers	XXXX	XXXX	XXXX	XX	XXX	XXXx	
Norwegian Red	XXXX	XXXX	XXX	XX	XX	XXXX	
Swedish Red & White		XXXX	XXX	XX	XX	XXXX	
Friesian	XXXX	XXXX	XXX	XX	XX	XXXX	
Simmental	XXXXX	XXXX	XX	XX	XXX	XXXX	
Limousin	XXXX	XXXXX	x	xx	XXXX	x	
Charolais	XXXXX	XXXXX	XX	XX	XXXX	XX	
Piedmontese	XX	XXXXXXX	X	XXX	XX	XX	X
Belgian Blue	XXX	XXXXXXX	X	XXX	XX	XX	
Romosinuano	х	XXX	XX	XX	XXX	XXX	XX
Tuli	XX	XXX	XXX	XX	XXX	XXX	XX
Brangus	XXXX	XXX	XXX	XX	XXX	XXX	XX
Beefmaster	XXXX	XXX	XX	XX	XXX	XXX	XX
Santa Gertrudis	XXXX	XXX	XX	XXX	XXX	XXX	XX
Bonsmara	XXX	XXX	XX	XX	XXX	XXX	XX
Brahman	XXXX	XXXX	XX	х	XXXXX	XXXX	XXX
Nellore	XXXX	XXXX	XX	x	XXXXX	XXX	XXX
Boran Sahiwal	XXX	XXX	XX XX	X	XXX	XXX	XXX



		(	Nati	onal	Pedig	reed	Lives	tock	Cou	ncil Bi-	Annı	ıal R	eport	ts)		
	British				Continental				American					Tota		
Year	A	Н	Sh	RA	Total %	С	S	L	G	Total %	Bm	SG	Brg	Bf m	Total %	
1965	34.6	56.0	3.4	0.2	94.3	2.8				2.8	1.4	1.1	0.4		2.9	1,1
1970	40.0	45.0	4.0	0.6	89.9	5.1				5.1	2.1	2.2	0.7		5.0	8
1975	29.2	39.9	2.8	0.8	73.1	7.4	8.0		0.9	19.7	2.6	2.1	1.3	1.2	7.3	1,0
1980	28.1	38.5	2.1	1.1	70.2	2.9	7.4	4.3	0.5	17.1	4.0	2.8	2.7	3.3	12.7	9
1985	22.3	26.1	2.4	1.8	52.9	3.9	12.2	6.0	2.3	29.9	4.3	3.8	4.4	4.7	17.1	7
1990	21.5	23.1	2.4	2.1	49.4	6.3	10.6	9.8	3.1	36.2	1.8	2.0	4.3	6.3	14.4	7
1995	28.7	14.8	2.0	3.8	49.7	7.1	9.1	10.1	4.3	37.6	1.9	1.5	3.6	5.6	12.7	7
2000	37.5	12.2	2.7	5.7	58.0	6.1	6.2	7.0	3.8	29.3	2.6	1.5	3.9	4.6	12.7	e
2005	41.7	9.6	2.5	6.0	59.8	10.3	6.1	5.5	3.8	31.9	1.1	1.0	3.2	2.7	8.0	7
2007	44.1	8.8	2.5	6.0	61.3	9.5	6.6	4.8	4.6	30.8	1.1	1.0	3.2	2.3	7.5	7
2009	44.8	8.6	2.1	6.4	61.9	8.8	6.1	3.9	4.7	28.6	1.1	1.0	4.0	2.0	8.1	7





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