







LRF Test plan Execution version 21.2

<u>When measured</u>	<u>What to measure</u>	<u>Requirements</u>	<u>How to Submit (1)</u>	<u>Age ranges of Animals</u>	<u>Slice Groups (2)</u>	<u>EBV's and outputs to be generated</u>
Mating Season	Reproduction:- Days to Calving (DTC) Gestation Length	Record bull in, bull out dates Do preg test and record females not in calf, including heifers Submit all mating dates for whole herd annually, including disposed animals with DTC disposal codes	Electronically via *HerdMaster or Society Mating (DTC) spreadsheet	All serviceable females in mating herd, including all DTC disposal codes for the year	A maximum three month breeding season recommended. Continuous mating not applicable	Days to Calving (DTC) Gestation Length (GL)
Calving	Birth Weight (BW)	Weight	With Birth notifications	Within 24 hours of calving	45 d	Birth Weight
	Calving Ease Scores	Score 1 (Unassisted) to 6 (Elective Surgical)				Calving ease direct and daughters
TSU (Tissue sample unit) or Hair sample (preferably at calving)	DNA profile (SNP test)	Is an on farm responsibility. All societies: Send 2 x hair cards (60 hairs each) to society. Or send 1 TSU + 1 hair card to society.	Producer submits TSU or Hair samples. Hair samples managed by Society; Breed Society forwards sample (s) to DNA laboratory.	n/a	n/a	Genomic EBV's (GEBV's)
Weaning (WW) (200 day)	200-day Weight	Weaning weight	Electronically via HerdMaster or Society Excel spreadsheet	80 to 300 days	45 d	200 day weight
						Milk
	Sheath/Naval	Score from 1 (pendulous) to 9 (clean)		80 to 300 days	45 d	Sheath/Naval (Research)
	Docility	Score All breeds (1 = docile to 5 = aggressive) Brahman (1 = aggressive to 9 = docile)		80 to 300 days	45 d	Docility
	Mature Cow Weight (MA)	Weigh cows at wean of calves		870 to 3900 days		MCW (first four records used)
	Body Condition (BC)	Score cows for BC at time of MCW measurement (preferably at wean) Score from 1 (Emaciated) to 9 (extremely Fat)		At weaning of calf	60d	Adjusted MCW (Research)
	Hip Height of the cow (HH)	Hip Height of the cow	870 to 3900 days		Frame score (Research)	
Yearling (YW) (400 day)	400-day weight	Weight	Electronically via HerdMaster or Society Excel spreadsheet	301 to 500 days	60 d	400 day weight
	Scrotum	Scrotum circumference (cm) preferably done on same day at 400-day weight		300 to 700 days	60 d	Scrotum

Ultrasound scanning	Carcass traits and weight	Accredited scanner to do scanning preferably at 400-days or 600-day weight	Data to be given to producer. Submits RTU data to Society within 24 hours, electronically via HerdMASTER or Society Excel spreadsheet	300 to 800 days (Must be in best condition)	60 d	Carcase wght, Eye-muscle-area, rib-and-rump fat, % retail-beef-yield, inter-muscular-fat
	Scrotum	Scrotum circumference (cm) done on same day as weight required for Ultrasound	Electronically via HerdMASTER or Society Excel spreadsheet	300 to 700 days	60 d	Scrotum
	Hip Height (HH)	Hip height in cm	Electronically via HerdMASTER or Society Excel spreadsheet	500 to 800 days	60 d	Frame score (Research)
18 months (FW) 600 day	600-day weight	Weight	Electronically via HerdMaster or Society Excel spreadsheet	500 to 900 days	60 d	600 day weight
	Scrotum (if not measured at 400-day weight)	Scrotum circumference (cm) preferably done on same day at 600-day weight		500 to 700 days	60 d	Scrotum
During NFI test	Net Feed Intake	Calan gate: 28 day adaptation, followed by 84 days testing GrowSafe or similar: 10 to 21 day adaptation, followed by 70 days testing Sernick: 28 day adaptation followed by 84 days testing Minimum contemporary group size of 5 animals with a minimum of two sires' progeny per group (recommended that one sire is a link sire). Refer to LRF test protocol	Results to be submitted to Society by test station in correct format (ILR2)	210 to 700 days at start of test.	60 d	NFI (post wean)
				The LRF however recommended the following: Minimum age of 210 days at start of adptation or such higher age to measure SS before end of test after 300 days of age.	60 d	NFI (feedlot finishing)
Abattoir records & Image scanning	Live weight; Fat depth (Rib); Carcass weight; Dressing %; Hump height; Optional:-Meat & fat Color; IMF% (1 - >12 %);PH & Temperature	Minimum contemporary group size of 5 animals with a minimum of two sires per group (one sire should be a link sire). Animals can be from a RFI test group, on farm or natural pastures. Must be a contemporary group fed through life in same conditions until age of cull. To be done by abattoir and/or image scan operator.	Data submission by abattoir & scan operator to Society	Cull age determined by each Breed based on best finishing age for Breed and finishing system; 300d to 1000d	60d	Carcase weight Marbling % Fat depth (mm) % Fineness EMA Fat color (Research) Meat colour (Research)
Meat lab	Fat depth (Rib); -Meat & fat Color;IMF% (1 - >12 %);PH & Temperature; Warner-Bratzler (tenderness) Optional: Fatty acid profiles	Minimum contemporary group size of 5 animals with a minimum of two sires per group (one sire should be a link sire). Animals either be from a NFI/RFI test group, on farm or natural pastures. Must be a contemporary group fed through life in same conditions until age of cull.	Data submission by meat lab to Society. Meat sample for meat lab to be collected marked and packed to meat lab	After standardized ageing period after slaughter within contemporary group	60d	Eye Muscle Area Rib fat, % inter-muscular-fat Tenderness Fat color (Research) Meat colour (Research) Fatty Acid Profiles (Research)

						
<ul style="list-style-type: none"> • Weigh, measure or score in as large as contemporary groups as possible; preferably weigh less often but in larger groups. 						
<ul style="list-style-type: none"> • Have as short a calving season as possible (45-90 days) to improve your genetic rate of gain (especially reproduction). 						
<ul style="list-style-type: none"> • Record all animals treated differently with a performance code for example sick or show animals. Any 3 letter code will work. 						
<ul style="list-style-type: none"> • Weigh, measure or score before splitting animals into different groups, for example wean the group then split them into a show string or sale animals. 						
<ul style="list-style-type: none"> • Weigh, measure or score all animals including culls. Selective recording produces wrong EBVs. 						
<ul style="list-style-type: none"> • Sheath/Naval and docility do not necessarily have to be scored on the same date as weaning date. See society instruction for scoring procedure. 						
<ul style="list-style-type: none"> • Only the first two weights submitted for each animal are accepted for 200- 400- and 600-day weights. 						
<ul style="list-style-type: none"> • Only the first scrotal measurement is accepted either at 400- or 600-days or within the age range specified (400 day is recommended). The actual weight on that date is essential. 						
<ul style="list-style-type: none"> • Make special arrangements if your contemporary group extends beyond 31 December and you want to include them in the same contemporary group as previous year. 						
<ul style="list-style-type: none"> • See Separate sheet for HerdMASTER Trait Codes 						
<p>NOTE</p>						<p style="color: red;">All items marked in Brown for action by Breeder</p>
<p>BGP BREEDPLAN TEST PLAN to promote total herd testing for Completeness of Information Recording</p>						