

## Input parameters for the economic values for young stock survival in beef x dairy calves

The input parameters are temporary and may be changed during the project period.

The input parameters are stated per dam breed and averaged across beef breeds.

Table 1. Percentage of BxD bull calves slaughtered before they are one year old

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Percentage of bull calves slaughtered before they are one year old	55	43	46	70	70	50

Table 2. BxD bull calves (slaughtered before they are one year old).

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Average age at slaughter in days	286	290	296	280	280	290
Average live weight at slaughter in kg	412	409	381	400	400	390
Average slaughter weight in kg	224.6	224.5	203.9	210	210	195
Average daily gain in kg per day	1.442	1.411	1.287	1.3	1.3	1.25
Average daily net gain in kg per day	0.786	0.775	0.689	0.65	0.65	0.6
EUROP form score	7.53	7.98	7.04	7	7.2	6.2
EUROP fatness	2.30	2.31	2.34	2.6	2.6	2.5

Table 3. BxD young bulls (slaughtered when they are older than one year).

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Average age at slaughter in days	361	367	376	380	380	400
Average live weight at slaughter in kg	487	491	440	480	485	450
Average slaughter weight in kg	273	279	237	255	260	235
Average daily gain in kg per day	1.357	1.347	1.169	1.25	1.25	1.2
Average daily net gain in kg per day	0.760	0.764	0.633	0.615	0.620	0.605
EUROP form score	8.06	8.64	6.97	7.5	7.7	6.7
EUROP fatness	2.44	2.57	2.41	2.8	2.8	2.7

Table 4. Percentage of BxD heifer calves slaughtered before they are one year old.

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Percentage of heifer calves slaughtered before they are one year old	60	43	0	67	51	29

Table 5. BxD heifer calves (slaughtered before they are one year old).

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Average age at slaughter in days	295	296	296	300	300	320
Average live weight at slaughter in kg	371	369	287	400	400	390
Average slaughter weight in kg	205	205	153	210	210	195
Average daily gain in kg per day	1.257	1.246	0.968	1.25	1.25	1.2
Average daily net gain in kg per day	0.695	0.695	0.516	0.63	0.63	0.60
EUROP form score	6.81	7.45	5.50	6.5	6.5	6
EUROP fatness	2.81	2.84	2.17	2.9	2.9	2.7

Table 6. BxD young heifers (slaughtered when they are older than one year).

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Average age at slaughter in days	382	402	423	450	450	480
Average live weight at slaughter in kg	433	450	405	490	500	460
Average slaughter weight in kg	239	252	213	260	275	245
Average daily gain in kg per day	1.134	1.120	0.957	1	1,05	0,9
Average daily net gain in kg per day	0.630	0.629	0.510	0.53	0.54	0.47
EUROP form score	7.1	7.63	6.3	6.7	6.7	6.3
EUROP fatness	2.99	3.14	2.98	3	3	2,9

Table 7. Use of sexed semen and information on newborn BxD calves

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
The probability that a BxD calf is a female	0.5	0.5	0.5	0.46	0.44	0.38
Average birth weight for heifer calves in kg	40	39	24	40	40	37
Average birth weight for bull calves in kg	43	42	27	44	45	40
Percentage of stillborn heifer calves, 2nd+ cows	2.5	2.1	3.1	4	4	4
Percentage of stillborn bull calves, 2nd+ cows	6.1	2.9	5.5	5	5	5

Table 8. Calving ease.

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Percentage of easy calvings without veterinary assistance, 2nd+ cows	78.1	86.8	86.1	85.71	90.56	91.12
Percentage of easy calvings with veterinary assistance, 2nd+ cows	16.9	10.5	9.6	11.18	6.89	6.35
Percentage of difficult calvings without veterinary assistance, 2nd+ cows	4.1	2.2	3.3	2.49	2.18	1.95
Percentage of difficult calvings with veterinary assistance, 2nd+ cows	0.9	0.5	1.0	0.61	0.37	0.58

Table 9. Mortality

	Latest revision			2021		
	Holstein	RDC	Jersey	Holstein	RDC	Jersey
Percentage of dead BxD heifer calves, 1-30 days old	4.00	3.60	5.80	4.49	3.77	7.51
Percentage of dead BxD heifer calves, 31-200 days old	4.30	5.00	5.30	5.94	6.55	9.54
Percentage of dead BxD bull calves, 1-30 days old	4.70	4.60	10.00	5.20	3.97	7.73
Percentage of dead BxD bull calves, 31-200 days old	6.80	6.90	6.50	7.02	7.77	11.71
Average age at death among the dead BxD heifer calves, 1-30 days old	12.2	13.1	13.0	13.0	14.8	14.4
Average age at death among the dead BxD heifer calves, 31-200 days old	94.3	99.7	90.5	103.2	107.6	99.6
Average age at death among the dead BxD bull calves, 1-30 days old	12.0	13.1	13.3	12.9	12.9	14.0
Average age at death among the dead BxD bull calves, 31-200 days old	94.3	99.7	90.5	105.9	101.6	103.2

The following input parameters relate to pricing and are stated across breeds. These prices should be representative for the entire country and true for EUROP conformation score 5 and EUROP fat score 3.

Table 10. Prices for EUROP conformation score 5 and EUROP fat score 3 in €.

	Latest revision	2021
Group of animals	Price	Price
Bull calves in € per kg carcass	3.76	4.07
Young bulls in € per kg carcass	3.45	3,5
Heifer calves in € per kg carcass		4.07
Young heifers in € per kg carcass		3,5

Table 11. Additional prices and deductions in € depending on EUROP conformation score for bull calves.

	Latest revision	2021
EUROP conformation score	Additional price (+) or deduction (-)	Additional price (+) or deduction (-)
1	-0.20	0
2	-0.20	0
3	-0.20	3.85
4	-0.07	+0.1
5	0.00	+0.1
6	0.00	+0.1
7	0.00	0
8	0.00	0
9	0.00	0
10	0.00	0
11	0.00	0
12	0.00	0
13	0.00	0
14	0.00	0
15	0.00	0

Table 12. Additional prices and deductions in € depending on EUROP conformation score for young bull.

	Latest revision	2021
EUROP conformation score	Additional price (+) or deduction (-)	Additional price (+) or deduction (-)
1	-0.49	0
2	-0.36	3.1
3	-0.23	3.5
4	-0.09	
5	0.00	3.7
6	0.09	
7	0.11	
8	0.17	4.06
9	0.19	
10	0.21	
11	0.23	4.11
12	0.26	
13	0.29	
14	0.31	4.14
15	0.34	

Table 13. Additional prices and deductions in € depending on EUROP fat score for bull calves.

	Latest revision	2021*
EUROP fat score	Additional price (+) or deduction (-)	Additional price (+) or deduction (-)
1	-0.27	-0.27
2	-0.03	-0.03
3	0.00	0
4	0.00	0
5	-0.13	-0.13

\* Danish Crown prices week 49 2021.

Table 14. Additional prices and deductions in € depending on EUROP fat score for young bulls.

	Latest revision	2021*
EUROP fat score	Additional price (+) or deduction (-)	Additional price (+) or deduction (-)
1		-0.17
2		-0.11
3		0
4		0
5		-0.13

\* Danish Crown prices week 49 2021.