

Steven Thomson, SRUC - an output of the 2022-27 Strategic Research Programme

Illustration of financial impact of 410 CI eligibility on smaller herds (based on a request by SCF & SG officials)

Based on estimated payment rates published in:

<https://ruralexchange.scot/policy/ssbss-410day-calving-interval/>



2023 Base Year		
Estimated Rate	£105	£151
2023 No. Eligible Dams	Mainland	Islands
1	£105	£151
2	£210	£302
3	£315	£454
4	£420	£605
5	£526	£756
6	£631	£907
7	£736	£1,059
8	£841	£1,210
9	£946	£1,361
10	£1,051	£1,512
11	£1,156	£1,664
12	£1,261	£1,815
13	£1,366	£1,966
14	£1,471	£2,117
15	£1,577	£2,269
16	£1,682	£2,420
17	£1,787	£2,571
18	£1,892	£2,722
19	£1,997	£2,874
20	£2,102	£3,025
21	£2,207	£3,176
22	£2,312	£3,327
23	£2,417	£3,479
24	£2,522	£3,630
25	£2,628	£3,781
26	£2,733	£3,932
27	£2,838	£4,084
28	£2,943	£4,235
29	£3,048	£4,386
30	£3,153	£4,537
31	£3,258	£4,689
32	£3,363	£4,840
33	£3,468	£4,991
34	£3,573	£5,142
35	£3,679	£5,293
36	£3,784	£5,445
37	£3,889	£5,596
38	£3,994	£5,747
39	£4,099	£5,898
40	£4,204	£6,050
41	£4,309	£6,201
42	£4,414	£6,352
43	£4,519	£6,503
44	£4,624	£6,655
45	£4,730	£6,806
46	£4,835	£6,957
47	£4,940	£7,108
48	£5,045	£7,260
49	£5,150	£7,411
50	£5,255	£7,562

Scenario (a) 410 CI - 100% eligible dams					
Estimated Rate	£121	£173			
100% eligible Dams	eligibility %	Mainland	Mainland change	Islands	Island Change
1	100%	£121	£16	£173	£22
2	100%	£242	£32	£346	£44
3	100%	£364	£48	£519	£65
4	100%	£485	£64	£692	£87
5	100%	£606	£81	£865	£109
6	100%	£727	£97	£1,038	£131
7	100%	£849	£113	£1,211	£152
8	100%	£970	£129	£1,384	£174
9	100%	£1,091	£145	£1,557	£196
10	100%	£1,212	£161	£1,730	£218
11	100%	£1,333	£177	£1,903	£239
12	100%	£1,455	£193	£2,076	£261
13	100%	£1,576	£210	£2,249	£283
14	100%	£1,697	£226	£2,422	£305
15	100%	£1,818	£242	£2,595	£326
16	100%	£1,940	£258	£2,768	£348
17	100%	£2,061	£274	£2,941	£370
18	100%	£2,182	£290	£3,114	£392
19	100%	£2,303	£306	£3,287	£414
20	100%	£2,425	£322	£3,460	£435
21	100%	£2,546	£339	£3,633	£457
22	100%	£2,667	£355	£3,806	£479
23	100%	£2,788	£371	£3,979	£501
24	100%	£2,909	£387	£4,152	£522
25	100%	£3,031	£403	£4,325	£544
26	100%	£3,152	£419	£4,498	£566
27	100%	£3,273	£435	£4,671	£588
28	100%	£3,394	£451	£4,844	£609
29	100%	£3,516	£468	£5,017	£631
30	100%	£3,637	£484	£5,190	£653
31	100%	£3,758	£500	£5,363	£675
32	100%	£3,879	£516	£5,536	£696
33	100%	£4,000	£532	£5,709	£718
34	100%	£4,122	£548	£5,882	£740
35	100%	£4,243	£564	£6,055	£762
36	100%	£4,364	£580	£6,228	£783
37	100%	£4,485	£597	£6,401	£805
38	100%	£4,607	£613	£6,574	£827
39	100%	£4,728	£629	£6,747	£849
40	100%	£4,849	£645	£6,920	£871
41	100%	£4,970	£661	£7,093	£892
42	100%	£5,091	£677	£7,266	£914
43	100%	£5,213	£693	£7,439	£936
44	100%	£5,334	£709	£7,612	£958
45	100%	£5,455	£726	£7,785	£979
46	100%	£5,576	£742	£7,958	£1,001
47	100%	£5,698	£758	£8,131	£1,023
48	100%	£5,819	£774	£8,304	£1,045
49	100%	£5,940	£790	£8,477	£1,066
50	100%	£6,061	£806	£8,650	£1,088

Scenario (b) 410 CI: 1 ineligible dams					
Estimated Rate	£121	£173			
410 - eligible dams	eligibility %	Mainland	Mainland change	Islands	Island Change
0	0%	£0	£-105	£0	£-151
1	50%	£121	£-89	£173	£-129
2	67%	£242	£-73	£346	£-108
3	75%	£364	£-57	£519	£-86
4	80%	£485	£-41	£692	£-64
5	83%	£606	£-24	£865	£-42
6	86%	£727	£-8	£1,038	£-21
7	88%	£849	£8	£1,211	£1
8	89%	£970	£24	£1,384	£23
9	90%	£1,091	£40	£1,557	£45
10	91%	£1,212	£56	£1,730	£66
11	92%	£1,333	£72	£1,903	£88
12	92%	£1,455	£88	£2,076	£110
13	93%	£1,576	£105	£2,249	£132
14	93%	£1,697	£121	£2,422	£153
15	94%	£1,818	£137	£2,595	£175
16	94%	£1,940	£153	£2,768	£197
17	94%	£2,061	£169	£2,941	£219
18	95%	£2,182	£185	£3,114	£240
19	95%	£2,303	£201	£3,287	£262
20	95%	£2,425	£217	£3,460	£284
21	95%	£2,546	£233	£3,633	£306
22	96%	£2,667	£250	£3,806	£328
23	96%	£2,788	£266	£3,979	£349
24	96%	£2,909	£282	£4,152	£371
25	96%	£3,031	£298	£4,325	£393
26	96%	£3,152	£314	£4,498	£415
27	96%	£3,273	£330	£4,671	£436
28	97%	£3,394	£346	£4,844	£458
29	97%	£3,516	£362	£5,017	£480
30	97%	£3,637	£379	£5,190	£502
31	97%	£3,758	£395	£5,363	£523
32	97%	£3,879	£411	£5,536	£545
33	97%	£4,000	£427	£5,709	£567
34	97%	£4,122	£443	£5,882	£589
35	97%	£4,243	£459	£6,055	£610
36	97%	£4,364	£475	£6,228	£632
37	97%	£4,485	£491	£6,401	£654
38	97%	£4,607	£508	£6,574	£676
39	98%	£4,728	£524	£6,747	£698
40	98%	£4,849	£540	£6,920	£719
41	98%	£4,970	£556	£7,093	£741
42	98%	£5,091	£572	£7,266	£763
43	98%	£5,213	£588	£7,439	£785
44	98%	£5,334	£604	£7,612	£806
45	98%	£5,455	£620	£7,785	£828
46	98%	£5,576	£637	£7,958	£850
47	98%	£5,698	£653	£8,131	£872
48	98%	£5,819	£669	£8,304	£893
49	98%	£5,940	£685	£8,477	£915

Scenario (c) 410 CI: 2 ineligible dams					
Estimated Rate	£121.23	£173.01			
410 - eligible dams	eligibility %	Mainland	Mainland change	Islands	Island Change
0	0%	£0	£-105	£0	£-151
0	0%	£0	£-210	£0	£-302
1	33%	£121	£-194	£173	£-281
2	50%	£242	£-178	£346	£-259
3	60%	£364	£-162	£519	£-237
4	67%	£485	£-146	£692	£-215
5	71%	£606	£-130	£865	£-194
6	75%	£727	£-113	£1,038	£-172
7	78%	£849	£-97	£1,211	£-150
8	80%	£970	£-81	£1,384	£-128
9	82%	£1,091	£-65	£1,557	£-107
10	83%	£1,212	£-49	£1,730	£-85
11	85%	£1,333	£-33	£1,903	£-63
12	86%	£1,455	£-17	£2,076	£-41
13	87%	£1,576	£-1	£2,249	£-20
14	88%	£1,697	£16	£2,422	£2
15	88%	£1,818	£32	£2,595	£24
16	89%	£1,940	£48	£2,768	£46
17	89%	£2,061	£64	£2,941	£67
18	90%	£2,182	£80	£3,114	£89
19	90%	£2,303	£96	£3,287	£111
20	91%	£2,425	£112	£3,460	£133
21	91%	£2,546	£128	£3,633	£155
22	92%	£2,667	£145	£3,806	£176
23	92%	£2,788	£161	£3,979	£198
24	92%	£2,909	£177	£4,152	£220
25	93%	£3,031	£193	£4,325	£242
26	93%	£3,152	£209	£4,498	£263
27	93%	£3,273	£225	£4,671	£285
28	93%	£3,394	£241	£4,844	£307
29	94%	£3,516	£257	£5,017	£329
30	94%	£3,637	£274	£5,190	£350
31	94%	£3,758	£290	£5,363	£372
32	94%	£3,879	£306	£5,536	£394
33	94%	£4,000	£322	£5,709	£416
34	94%	£4,122	£338	£5,882	£437
35	95%	£4,243	£354	£6,055	£459
36	95%	£4,364	£370	£6,228	£481
37	95%	£4,485	£386	£6,401	£503
38	95%	£4,607	£402	£6,574	£525
39	95%	£4,728	£419	£6,747	£546
40	95%	£4,849	£435	£6,920	£568
41	95%	£4,970	£451	£7,093	£590
42	95%	£5,091	£467	£7,266	£612
43	96%	£5,213	£483	£7,439	£633
44	96%	£5,334	£499	£7,612	£655
45	96%	£5,455	£515	£7,785	£677
46	96%	£5,576	£531	£7,958	£699
47	96%	£5,698	£548	£8,131	£720
48	96%	£5,819	£564	£8,304	£742

Scenario (d) 410 CI: 3 ineligible dams					
Estimated Rate		£121.23		£173.01	
10 - eligible dams	eligibility %	Mainland	Mainland change	Islands	Island Change
0	0%	£0	£-105	£0	£-151
0	0%	£0	£-210	£0	£-302
0	0%	£0	£-315	£0	£-454
1	25%	£121	£-299	£173	£-432
2	40%	£242	£-283	£346	£-410
3	50%	£364	£-267	£519	£-388
4	57%	£485	£-251	£692	£-367
5	63%	£606	£-235	£865	£-345
6	67%	£727	£-219	£1,038	£-323
7	70%	£849	£-202	£1,211	£-301
8	73%	£970	£-186	£1,384	£-280
9	75%	£1,091	£-170	£1,557	£-258
10	77%	£1,212	£-154	£1,730	£-236
11	79%	£1,333	£-138	£1,903	£-214
12	80%	£1,455	£-122	£2,076	£-193
13	81%	£1,576	£-106	£2,249	£-171
14	82%	£1,697	£-90	£2,422	£-149
15	83%	£1,818	£-73	£2,595	£-127
16	84%	£1,940	£-57	£2,768	£-106
17	85%	£2,061	£-41	£2,941	£-84
18	86%	£2,182	£-25	£3,114	£-62
19	86%	£2,303	£-9	£3,287	£-40
20	87%	£2,425	£7	£3,460	£-18
21	88%	£2,546	£23	£3,633	£3
22	88%	£2,667	£39	£3,806	£25
23	88%	£2,788	£56	£3,979	£47
24	89%	£2,909	£72	£4,152	£69
25	89%	£3,031	£88	£4,325	£90
26	90%	£3,152	£104	£4,498	£112
27	90%	£3,273	£120	£4,671	£134
28	90%	£3,394	£136	£4,844	£156
29	91%	£3,516	£152	£5,017	£177
30	91%	£3,637	£168	£5,190	£199
31	91%	£3,758	£185	£5,363	£221
32	91%	£3,879	£201	£5,536	£243
33	92%	£4,000	£217	£5,709	£264
34	92%	£4,122	£233	£5,882	£286
35	92%	£4,243	£249	£6,055	£308
36	92%	£4,364	£265	£6,228	£330
37	93%	£4,485	£281	£6,401	£352
38	93%	£4,607	£297	£6,574	£373
39	93%	£4,728	£314	£6,747	£395
40	93%	£4,849	£330	£6,920	£417
41	93%	£4,970	£346	£7,093	£439
42	93%	£5,091	£362	£7,266	£460
43	93%	£5,213	£378	£7,439	£482
44	94%	£5,334	£394	£7,612	£504
45	94%	£5,455	£410	£7,785	£526
46	94%	£5,576	£426	£7,958	£547
47	94%	£5,698	£443	£8,131	£569



Steven Thomson, SRUC - an output of the 2022-27 Strategic Research Programme

Illustration impact of 410 CI eligibility on smaller herds in 2023 (based on a request by SCF & SG officials)

Based on estimated payment rates published in:

<https://ruralexchange.scot/policy/ssbss-410day-calving-interval/>

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* based on beef animals on CPHs associated with SSBSS claim (extract Jan - Dec 2023)

Number of 410-day ineligible dams on SSBSS Mainland and Island herds of less than 10 dams calved in 2023 (heifers + previously calved cows)

Herd Size	Total ineligible dams	SSBSS Mainland				SSBSS Islands			
		BRNs	% BRNs	Dams calved	Ineligible Dams	BRNs	% BRNs	Dams calved	Ineligible Dams
1-9 dams calved in year	0	346	44%	1,410	0	221	51%	883	0
	1	213	27%	1,068	213	118	27%	574	118
	2	128	16%	661	256	59	14%	299	118
	3	44	6%	258	132	22	5%	135	66
	4	20	3%	125	80	8	2%	48	32
	5	13	2%	89	65	3	1%	20	15
	6	8	1%	62	48		0%		
	7	6	1%	49	42	1	0%	7	7
	8	1	0%	9	8		0%		
	All	779	100%	3,731	844	432	100%	1,966	356