

Experiment 3 (Ukraine, 2003)

Cultivar	Morphotype	Soil_Cs-137_KBq kg-	Soil_Sr-90_KBq kg-	Plant_Cs-137_KBq
		1 (d. wt)	1 (d. wt)	kg-1 (d. wt)
Bor 1	Borecole	0.331	0.142	0.128
Bor 1	Borecole	1.345	0.473	0.432
Bor 1	Borecole	1.887	0.732	0.642
Bor 2	Borecole	0.843	0.342	0.047
Bor 3	Borecole	0.155	0.047	0.036
Bor 3	Borecole	2.752	1.22	0.813
Bor 4	Borecole	0.163	0.079	0.053
Bor 4	Borecole	0.933	0.45	0.196
Bor 4	Borecole	2.051	0.788	0.487
Bor 5	Borecole	3.565	1.216	0.972
Bor 5	Borecole	1.985	0.915	0.478
Bor 5	Borecole	0.262	0.075	0.083
Bor 6	Borecole	0.189	0.133	0.087
Bor 6	Borecole	0.357	0.248	0.079
Bor 6	Borecole	2.865	1.391	0.329
Bro 7	Broccoli	3.72	1.653	0.173
Bro 7	Broccoli	0.62	0.299	0.047
Bro 8	Broccoli	5.674	3.312	0.469
Bro 8	Broccoli	0.208	0.046	0.029
Bro 9	Broccoli	0.569	0.283	0.028
Bro 9	Broccoli	0.887	0.952	0.048
Bro 10	Broccoli	1.792	0.699	0.084
Bro 10	Broccoli	2.106	0.861	0.116
Bro 11	Broccoli	1.434	0.496	0.5
Bro 11	Broccoli	1.471	0.711	0.487
Bro 12	Broccoli	0.165	0.025	0.044
Bro 12	Broccoli	2.207	0.854	0.264
Bro 13	Broccoli	0.199	0.05	0.092
Bro 13	Broccoli	1.379	0.514	0.618
Bro 14	Broccoli	0.248	0.112	0.063
Bro 14	Broccoli	3.812	1.294	0.572
Bro 15	Broccoli	1.098	0.542	0.203
Bro 15	Broccoli	1.753	0.744	0.311
Bro 15	Broccoli	3.743	1.851	0.538
Br 16	Broccoli	1.349	0.534	0.382
Br 16	Broccoli	2.692	1.232	0.515
Br 16	Broccoli	0.152	0.01	0.038
Br Sp 17	Brussels sprout	3.738	1.274	0.638
Br Sp 17	Brussels sprout	5.475	3.157	0.594
Br Sp 18	Brussels sprout	0.986	0.423	0.106
Br Sp 18	Brussels sprout	1.811	1.276	0.207
Br Sp 18	Brussels sprout	2.582	0.92	0.218
Br Sp 19	Brussels sprout	0.479	0.206	0.029
Br Sp 19	Brussels sprout	2.958	1.481	0.164
Br Sp 20	Brussels sprout	0.226	0.022	0.069

Br Sp 20	Brussels sprout	2.777	0.727	0.821
Br Sp 20	Brussels sprout	4.292	2.36	1.063
Br Sp 21	Brussels sprout	1.853	0.879	0.517
Br Sp 21	Brussels sprout	2.989	1.049	0.73
Br Sp 21	Brussels sprout	2.714	1.163	0.683
Br Sp 22	Brussels sprout	1.438	0.93	0.438
Br Sp 22	Brussels sprout	2.745	1.037	0.728
Br Sp 23	Brussels sprout	0.43	0.191	0.063
Br Sp 23	Brussels sprout	4.944	2.794	0.727
Br Sp 23	Brussels sprout	3.522	2.101	0.329
Cab 24	Cabbage	0.656	0.179	0.032
Cab 24	Cabbage	1.427	0.536	0.049
Cab 24	Cabbage	2.501	1.016	0.063
Cab 25	Cabbage	0.152	0.019	0.006
Cab 25	Cabbage	1.73	0.799	0.083
Cab 25	Cabbage	2.566	0.991	0.106
Cab 26	Cabbage	0.51	0.119	0.016
Cab 26	Cabbage	2.13	0.784	0.074
Cab 26	Cabbage	2.053	0.782	0.062
Cab 27	Cabbage	0.429	0.204	0.053
Cab 27	Cabbage	1.94	0.754	0.193
Cab 27	Cabbage	3.256	1.568	0.32
Cab 28	Cabbage	0.4	0.202	0.072
Cab 28	Cabbage	1.795	0.687	0.407
Cab 29	Cabbage	0.831	0.487	0.377
Cab 29	Cabbage	2.669	1.134	0.473
Cab 29	Cabbage	0.255	0.09	0.084
Cab 30	Cabbage	1.922	0.673	0.671
Cab 30	Cabbage	0.707	0.272	0.488
Cab 30	Cabbage	2.086	0.821	0.729
Cab 31	Cabbage	0.331	0.241	0.046
Cab 31	Cabbage	0.562	0.18	0.084
Cab 31	Cabbage	2.657	1.096	0.275
Cab 32	Cabbage	1.976	0.832	0.591
Cab 32	Cabbage	0.33	0.113	0.078
Cab 33	Cabbage	2.31	0.919	0.094
Cab 34	Cabbage	1.6	0.783	0.093
Cab 34	Cabbage	2.703	1.117	0.263
Cab 34	Cabbage	0.17	0.028	0.011
Cab 35	Cabbage	1.392	0.483	0.201
Cab 35	Cabbage	3.069	1.273	0.404
Cab 36	Cabbage	1.553	0.551	0.373
Cab 36	Cabbage	2.979	1.058	0.632
Cab 36	Cabbage	3.178	1.337	0.705
Cab 37	Cabbage	3.087	1.07	0.638
Cab 37	Cabbage	0.354	0.128	0.072
Cab 37	Cabbage	0.916	0.627	0.216
Cau 38	Cauliflower	0.349	0.217	0.018
Cau 38	Cauliflower	2.919	1.237	0.174
Cau 38	Cauliflower	0.934	0.343	0.046

Cau 39	Cauliflower	1.06	0.686	0.057
Cau 39	Cauliflower	2.378	1.1	0.107
Cau 41	Cauliflower	2.809	1.163	0.175
Cau 42	Cauliflower	2.457	1.025	0.209
Cau 42	Cauliflower	0.614	0.217	0.044
Cau 43	Cauliflower	1.768	0.672	0.072
Cau 44	Cauliflower	0.56	0.183	0.021
Cau 46	Cauliflower	0.149	0.05	0.016
Cau 46	Cauliflower	1.672	0.992	0.209
Ca 47	Cauliflower	0.496	0.249	0.039
Cau 48	Cauliflower	0.197	0.012	0.019
Cau 48	Cauliflower	1.094	0.737	0.105
Cau 49	Cauliflower	0.156	0.03	0.014
Ch Ka 50	Chinese kale	2.243	0.911	0.278
Ch Ka 50	Chinese kale	1.711	0.685	0.173
Ch Ka 50	Chinese kale	0.173	0.006	0.016
Ka 51	Kale	2.209	1.025	0.103
Ka 51	Kale	0.807	0.243	0.05
Ka 52	Kale	0.588	0.309	0.184
Ka 52	Kale	2.243	0.878	1.085
Ka 53	Kale	0.15	0.024	0.098
Ka 53	Kale	1.629	0.647	0.835
Ka 53	Kale	3.021	0.99	1.593
Ka 54	Kale	0.102	0.068	0.014
Ka 54	Kale	1.313	0.471	0.163
Ka 55	Kale	3.462	1.462	0.373
Ka 55	Kale	0.102	0.021	0.026
Ka 55	Kale	0.73	0.373	0.108
Ka 56	Kale	3.082	1.29	0.342
Ka 56	Kale	0.583	0.194	0.059
Ko 57	Kohlrabi	0.548	0.172	0.069
Ko 57	Kohlrabi	0.167	0.11	0.02
Ko 58	Kohlrabi	0.426	0.089	0.041
Ko 58	Kohlrabi	1.639	1.263	0.149
Ko 58	Kohlrabi	4.924	2.902	0.385
Ko 59	Kohlrabi	0.323	0.223	0.03
Ko 59	Kohlrabi	2.86	1.246	0.285
Ko 59	Kohlrabi	0.906	0.325	0.097
Ko 60	Kohlrabi	1.752	0.708	0.174
Ko 60	Kohlrabi	2.41	0.861	0.292
Ko 60	Kohlrabi	2.796	1.691	0.381
Ko 61	Kohlrabi	2.764	1.329	0.416
Ko 61	Kohlrabi	2.086	1.294	0.328
Ko 62	Kohlrabi	0.101	0.007	0.013
Ko 62	Kohlrabi	3.412	1.177	0.373
Ko 64	Kohlrabi	2.487	1.087	0.604
Ko 64	Kohlrabi	1.372	1.006	0.369
Ko 65	Kohlrabi	1.019	0.376	0.094
Ko 65	Kohlrabi	3.83	1.803	0.298
Sa Ca 66	Savoy cabbage	0.105	0.014	0.054

Sa Ca 66	Savoy cabbage	1.528	0.579	0.628
Sa Ca 67	Savoy cabbage	3.615	1.912	1.429
Sa Ca 67	Savoy cabbage	1.438	0.619	0.633
Sa Ca 67	Savoy cabbage	1.179	0.536	0.792
Sa Ca 67	Savoy cabbage	2.594	1.083	1.398
Sa Ca 68	Savoy cabbage	1.209	0.599	0.729
Sa Ca 68	Savoy cabbage	2.152	0.827	1.2
Sa Ca 68	Savoy cabbage	0.048	0.02	0.094
Sa Ca 69	Savoy cabbage	0.056	0.029	0.028
Sa Ca 69	Savoy cabbage	2.557	0.916	0.629
Sa Ca 69	Savoy cabbage	2.691	0.96	0.528
Sa Ca 70	Savoy cabbage	0.501	0.207	0.166
Sa Ca 70	Savoy cabbage	2.739	1.098	0.828
Sa Ca 70	Savoy cabbage	0.966	0.835	0.303
Sa Ca 71	Savoy cabbage	1.666	0.652	0.542
Sa Ca 71	Savoy cabbage	2.506	0.916	0.943
Sa Ca 72	Savoy cabbage	5.469	3.213	0.287
Sa Ca 72	Savoy cabbage	1.437	0.508	0.068
Sa Ca 73	Savoy cabbage	1.303	0.537	0.276
Sa Ca 73	Savoy cabbage	2.245	1.009	0.385
Sa Ca 73	Savoy cabbage	1.806	0.706	0.269
Sa Ca 74	Savoy cabbage	0.359	0.193	0.275
Sa Ca 74	Savoy cabbage	2.587	1.025	0.843
Sa Ca 74	Savoy cabbage	0.445	0.214	0.319

Plant_Sr-90_KBq kg- 1 (d. wt)	Cs-137_ concentration_r atio	Sr-90_ concentration_r atio	Plant_dry _weight_ g
1.532	0.39	10.79	10.76
3.531	0.32	7.46	2.07
6.346	0.34	8.66	16.31
4.382	0.06	12.8	6.94
0.452	0.23	9.56	12.67
9.543	0.3	7.82	4.12
2.065	0.33	26.22	1.72
10.373	0.21	23.04	14.99
18.393	0.24	23.34	10.42
14.824	0.27	12.19	5.85
12.934	0.24	14.13	4.46
1.407	0.32	18.72	6.66
2.763	0.46	20.82	3.31
4.296	0.22	17.31	2.63
14.839	0.11	10.67	1.45
14.826	0.05	8.97	6.38
3.725	0.08	12.44	5.22
19.956	0.08	6.03	22.89
0.935	0.14	20.16	3.13
3.265	0.05	11.54	4.86
9.378	0.05	9.85	5.61
6.817	0.05	9.75	8.14
7.482	0.06	8.69	5.4
18.65	0.35	37.59	29
23.943	0.33	33.66	22.21
0.393	0.27	15.88	14.5
8.736	0.12	10.23	15.22
1.65	0.46	33.18	13.28
17.829	0.45	34.66	4.89
3.378	0.25	30.18	1.07
23.618	0.15	18.26	6.37
7.284	0.18	13.44	4.51
8.935	0.18	12	2.32
18.037	0.14	9.74	3.45
6.294	0.28	11.78	0.95
14.284	0.19	11.59	7.66
0.248	0.25	24.45	4.46
17.328	0.17	13.6	11.67
27.896	0.11	8.84	22.61
4.721	0.11	11.16	15.04
13.643	0.11	10.69	4.3
11.299	0.08	12.28	22.47
2.398	0.06	11.62	3.32
16.415	0.06	11.08	17.63
0.345	0.31	15.55	19.99

8.231	0.3	11.32	2.79
19.934	0.25	8.45	1
13.729	0.28	15.63	9.1
17.265	0.24	16.46	2.61
17.903	0.25	15.4	21.85
8.284	0.3	8.91	6.43
9.073	0.27	8.75	7.12
2.04	0.15	10.69	9.99
26.43	0.15	9.46	4.89
26.538	0.09	12.63	6.61
2.836	0.05	15.83	5.04
8.335	0.03	15.56	8.58
14.042	0.03	13.83	7.74
0.284	0.04	14.94	9.81
7.922	0.05	9.91	16.1
9.36	0.04	9.45	1.17
1.833	0.03	15.36	2.36
12.943	0.03	16.51	23.32
13.36	0.03	17.07	18.33
2.15	0.12	10.55	19.43
8.855	0.1	11.74	2.72
13.48	0.1	8.6	21.21
4.173	0.18	20.69	2.47
14.593	0.23	21.25	12.18
4.927	0.45	10.11	10.46
8.933	0.18	7.87	14.23
2.489	0.33	27.52	1.09
17.928	0.35	26.63	15.44
7.094	0.69	26.04	3.64
16.328	0.35	19.89	10.43
4.974	0.14	20.62	3.19
3.963	0.15	22.04	6.96
13.924	0.1	12.71	6.08
15.052	0.3	18.1	1.49
2.592	0.24	22.84	8.12
18.933	0.04	20.6	6.5
12.397	0.06	15.83	1.89
14.387	0.1	12.89	13.06
0.403	0.06	14.16	3.3
10.039	0.14	20.8	10.16
18.307	0.13	14.38	2.51
14.947	0.24	27.12	4.4
21.046	0.21	19.9	5.2
24.803	0.22	18.55	8.18
12.639	0.21	11.81	1.93
2.017	0.2	15.77	7.51
5.724	0.24	9.13	1.62
10.583	0.05	48.68	2.54
39.464	0.06	31.89	3.83
12.783	0.05	37.3	5.89

24.843	0.05	36.24	4.51
36.829	0.05	33.48	0.97
32.574	0.06	28.02	5.17
28.463	0.08	27.76	1.16
8.474	0.07	39.01	3.75
23.383	0.04	34.78	3.04
6.397	0.04	35.01	1.07
2.265	0.11	45.63	6.23
35.126	0.12	35.43	8.44
7.685	0.08	30.81	4.54
0.385	0.09	30.84	9.35
12.763	0.1	17.32	2.79
0.284	0.09	9.33	6.52
18.744	0.12	20.57	14.54
12.382	0.1	18.08	3.8
0.173	0.09	27.06	2.5
12	0.05	11.71	2.68
3.378	0.06	13.88	11.61
10.383	0.31	33.65	1.71
24.032	0.48	27.36	4.09
1.55	0.66	65.38	3.23
25.933	0.51	40.08	4.36
32.041	0.53	32.38	2.54
1.306	0.14	19.17	5.49
9.604	0.12	20.39	1.88
14.925	0.11	10.21	7.18
0.372	0.25	17.56	3.21
4.383	0.15	11.75	16.18
5.389	0.11	4.18	9.93
0.837	0.1	4.3	1.52
1.642	0.13	9.53	9.96
1.053	0.12	9.59	8.76
0.933	0.1	10.51	3.56
12.032	0.09	9.53	1.22
17.933	0.08	6.18	2.56
2.839	0.09	12.72	1.01
14.403	0.1	11.56	1.04
3.723	0.11	11.44	1.24
14.329	0.1	20.23	11.04
16.21	0.12	18.83	11.77
18.622	0.14	11.01	3.35
14.15	0.15	10.64	2.32
14.93	0.16	11.54	28.98
0.075	0.13	11.42	1.94
12.319	0.11	10.47	12.62
10.048	0.24	9.24	10.71
9.843	0.27	9.78	6.05
3.392	0.09	9.01	1.7
16.932	0.08	9.39	10.03
0.219	0.52	15.86	1.91

11.093	0.41	19.16	8.2
23.733	0.4	12.41	1.01
11.428	0.44	18.46	1.15
9.835	0.67	18.36	4.48
16.288	0.54	15.04	4.68
3.825	0.6	6.38	12.51
8	0.56	9.68	1.07
0.728	1.98	35.58	13.4
0.833	0.49	28.71	1.64
15.739	0.25	17.18	3.81
19.033	0.2	19.83	7.87
1.65	0.33	7.98	15.46
7.285	0.3	6.63	29.47
5.928	0.31	7.1	7.86
26.071	0.33	39.97	28.72
31.934	0.38	34.85	4.12
7.362	0.05	2.29	5.06
0.871	0.05	1.71	3.71
6.628	0.21	12.35	12.28
9.469	0.17	9.38	22.73
7.365	0.15	10.44	8.05
5.933	0.77	30.79	10.29
18.735	0.33	18.27	2.66
5.722	0.72	26.69	14.85