

## SUPPLEMENT

Table S1. ANOVA table for total tuber yield

Tukey's studentized range (HSD) test for data1					
Data1= Total Yield					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	28,33499				
Critical value of the studentized range	2,80719				
The difference is minimally significant	1,761				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	31,2808	72	fianna		
B	29,1061	72	irga		
Linear models GLM procedure					
Tukey's studentized range (HSD) test for data1					
Data1= yield					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	28,33499				
Critical value of the studentized range	4,3824				
The difference is minimally significant	5,4984				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Care		

	A	33,849	18	p3	
	A				
B	A	32,059	18	p4	
B	A				
B	A	31,863	18	p8	
B	A				
B	A	31,684	18	p7	
B	A				
B	A	30,843	18	p2	
B	A				
B	A	30,512	18	p6	
B					
B		28,201	18	p5	
	C	22,536	18	p1	
Linear models					
GLM procedure					
Data 1= yield					
Level	Level	N	Data1		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	20,38	4,07	
2007	irga	24	22,21	6,31	
2008	fianna	24	34,02	6,98	
2008	irga	24	35,59	9,59	
2009	fianna	24	39,44	4,92	
2009	irga	24	29,53	3,47	
Level	Level	N	Data1		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	12,02	3,25	

	2007	p2	6	22,45	2,13	
	2007	p3	6	19,92	5,11	
	2007	p4	6	21,85	4,90	
	2007	p5	6	21,02	3,10	
	2007	p6	6	24,13	4,62	
	2007	p7	6	24,41	4,12	
	2007	p8	6	24,54	3,52	
	2008	p1	6	25,32	6,50	
	2008	p2	6	36,11	8,74	
	2008	p3	6	42,59	6,53	
	2008	p4	6	38,46	8,86	
	2008	p5	6	30,18	6,60	
	2008	p6	6	32,21	9,03	
	2008	p7	6	36,78	4,03	
	2008	p8	6	36,78	5,48	
	2009	p1	6	30,27	8,60	
	2009	p2	6	33,97	9,19	
	2009	p3	6	39,03	6,62	
	2009	p4	6	35,87	5,42	
	2009	p5	6	33,40	7,99	
	2009	p6	6	35,20	5,11	
	2009	p7	6	33,87	3,16	
	2009	p8	6	34,27	4,48	
Level	Level		N	Data1		
Cultivar	Care			Mean	Mean	
fianna	p1		9	24,92	11,62	
fianna	p2		9	34,00	9,97	
fianna	p3		9	35,80	11,70	
fianna	p4		9	32,98	8,59	

fianna	p5	9	29,50	9,21	
fianna	p6	9	29,91	8,99	
fianna	p7	9	31,26	7,79	
fianna	p8	9	31,89	8,88	
irga	p1	9	20,16	8,07	
irga	p2	9	27,68	7,89	
irga	p3	9	31,90	12,16	
irga	p4	9	31,14	11,25	
irga	p5	9	26,90	6,81	
irga	p6	9	31,12	6,95	
irga	p7	9	32,11	5,35	
irga	p8	9	31,84	4,79	
Level	Level	Level	N	Data1	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	12,03	3,16
2007	fianna	p2	3	21,68	2,52
2007	fianna	p3	3	20,47	2,32
2007	fianna	p4	3	22,41	0,92
2007	fianna	p5	3	21,83	3,26
2007	fianna	p6	3	21,01	3,24
2007	fianna	p7	3	22,05	4,46
2007	fianna	p8	3	21,54	1,81
2007	irga	p1	3	12,01	4,05
2007	irga	p2	3	23,23	1,78
2007	irga	p3	3	19,37	7,68
2007	irga	p4	3	21,28	7,63
2007	irga	p5	3	20,21	3,38
2007	irga	p6	3	27,24	3,72
2007	irga	p7	3	26,76	2,43

	2007	irga	p8	3	27,55	0,85
	2008	fianna	p1	3	27,39	1,99
	2008	fianna	p2	3	38,13	5,47
	2008	fianna	p3	3	41,99	1,45
	2008	fianna	p4	3	35,99	5,03
	2008	fianna	p5	3	26,40	6,25
	2008	fianna	p6	3	29,91	7,40
	2008	fianna	p7	3	35,73	5,50
	2008	fianna	p8	3	36,65	7,43
	2008	irga	p1	3	23,25	9,42
	2008	irga	p2	3	34,09	12,19
	2008	irga	p3	3	43,20	10,16
	2008	irga	p4	3	40,94	12,34
	2008	irga	p5	3	33,97	5,18
	2008	irga	p6	3	34,51	11,55
	2008	irga	p7	3	37,83	2,66
	2008	irga	p8	3	36,91	4,45
	2009	fianna	p1	3	35,33	10,25
	2009	fianna	p2	3	42,20	2,69
	2009	fianna	p3	3	44,93	2,16
	2009	fianna	p4	3	40,53	1,50
	2009	fianna	p5	3	40,27	3,58
	2009	fianna	p6	3	38,80	4,53
	2009	fianna	p7	3	36,00	1,39
	2009	fianna	p8	3	37,47	3,90
	2009	irga	p1	3	25,20	1,74
	2009	irga	p2	3	25,73	0,61
	2009	irga	p3	3	33,13	0,64
	2009	irga	p4	3	31,20	2,43

2009	irga	p5	3	26,53	2,27
2009	irga	p6	3	31,60	2,43
2009	irga	p7	3	31,73	3,06
2009	irga	p8	3	31,07	2,05

Table S2. ANOVA table for comercial tuber yield

2. Tukey's studentized range (HSD) test for data2					
Data2 = commercial yield					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ..					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	28,46503				
Critical value of the studentized range	3,36669				
The difference is minimally significant	2,5926				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	32,931	48	2009		
A					
A	32,694	48	2008		
B	19,194	48	2007		
Data2= commercial yield					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ..					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	28,46503				

Critical value of the studentized range	2,80719				
The difference is minimally significant	1,7651				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	29,5401	72	fianna		
B	27,0058	72	irga		
Linear models GLM procedure					
Tukey's studentized range (HSD) test for data2					
Data2= commercial yield					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ...					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	28,46503				
Critical value of the studentized range	4,3824				
The difference is minimally significant	5,511				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Care		
A	32,064	18	p3		
A					
A	30,107	18	p4		
A					
A	29,921	18	p7		
A					
A	29,653	18	p8		
A					
A	29,034	18	p2		

A					
A	28,708	18	p6		
A					
A	26,696	18	p5		
B	19,999	18	p1		
Linear models					
GLM procedure					
Data2 = commercial yield					
Level	Level	N	data2		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	17,9704167	4,44897886	
2007	irga	24	20,4166667	6,30706758	
2008	fianna	24	32,4441667	7,04793767	
2008	irga	24	32,94375	9,49986078	
2009	fianna	24	38,2058333	5,08349753	
2009	irga	24	27,6570833	3,86531452	
Level	Level	N	data2		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	8,5016667	2,32973317	
2007	p2	6	21,125	2,18522081	
2007	p3	6	18,245	4,56801817	
2007	p4	6	19,385	4,93787707	
2007	p5	6	19,3916667	3,28008791	
2007	p6	6	22,1583333	4,37285452	
2007	p7	6	22,5016667	3,43598263	
2007	p8	6	22,24	3,68945524	
2008	p1	6	23,0183333	6,71056307	
2008	p2	6	34,055	8,30218465	



2008	p3	6	40,4066667	6,57748787	
2008	p4	6	36,1283333	8,72120729	
2008	p5	6	28,3866667	6,60965859	
2008	p6	6	30,1833333	8,74704445	
2008	p7	6	34,86	4,38412135	
2008	p8	6	34,5133333	5,65724197	
2009	p1	6	28,4783333	9,26304576	
2009	p2	6	31,9233333	9,84319393	
2009	p3	6	37,5416667	7,50813803	
2009	p4	6	34,8083333	5,21294319	
2009	p5	6	32,31	7,9962091	
2009	p6	6	33,7833333	5,00676609	
2009	p7	6	32,4016667	3,56207477	
2009	p8	6	32,205	5,44751962	
Level	Level	N	data2		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	22,3122222	12,9015869	
fianna	p2	9	32,3755556	9,9055239	
fianna	p3	9	34,3666667	11,9995833	
fianna	p4	9	31,0188889	9,5216522	
fianna	p5	9	27,9933333	9,5685683	
fianna	p6	9	28,2288889	8,9136517	
fianna	p7	9	29,8733333	8,0487763	
fianna	p8	9	30,1522222	9,4603406	
irga	p1	9	17,6866667	8,1597564	
irga	p2	9	25,6933333	7,4475315	
irga	p3	9	29,7622222	11,7186036	
irga	p4	9	29,1955556	10,8267644	
irga	p5	9	25,3988889	6,6666267	

irga	p6	9	29,1877778	6,9708424	
irga	p7	9	29,9688889	5,1700398	
irga	p8	9	29,1533333	4,5622637	
Level	Level	Level	N	data2	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	7,5833333	1,7141276
2007	fianna	p2	3	20,0633333	2,4354945
2007	fianna	p3	3	18,67	0,7594077
2007	fianna	p4	3	19,1466667	1,1036455
2007	fianna	p5	3	19,6533333	3,2700051
2007	fianna	p6	3	19,22	2,5817049
2007	fianna	p7	3	20,27	3,173216
2007	fianna	p8	3	19,1566667	1,2967781
2007	irga	p1	3	9,42	2,846208
2007	irga	p2	3	22,1866667	1,6201646
2007	irga	p3	3	17,82	7,1448163
2007	irga	p4	3	19,6233333	7,7180395
2007	irga	p5	3	19,13	3,9998875
2007	irga	p6	3	25,0966667	3,9035924
2007	irga	p7	3	24,7333333	2,1224121
2007	irga	p8	3	25,3233333	1,9564594
2008	fianna	p1	3	24,9933333	2,0087392
2008	fianna	p2	3	36,3	5,0671392
2008	fianna	p3	3	40,2833333	2,2393377
2008	fianna	p4	3	34,7066667	5,0313451
2008	fianna	p5	3	25,2233333	6,0903311
2008	fianna	p6	3	28,1466667	6,7648824
2008	fianna	p7	3	34,5633333	6,2100429
2008	fianna	p8	3	35,3366667	7,6911464

2008	irga	p1	3	21,0433333	9,8408452
2008	irga	p2	3	31,81	11,4682039
2008	irga	p3	3	40,53	10,1537235
2008	irga	p4	3	37,55	12,6004286
2008	irga	p5	3	31,55	6,4889753
2008	irga	p6	3	32,22	11,5355667
2008	irga	p7	3	35,1566667	3,0368789
2008	irga	p8	3	33,69	4,3386173
2009	fianna	p1	3	34,36	10,2427682
2009	fianna	p2	3	40,7633333	2,202211
2009	fianna	p3	3	44,1466667	2,1926316
2009	fianna	p4	3	39,2033333	1,9527502
2009	fianna	p5	3	39,1033333	4,1778025
2009	fianna	p6	3	37,32	4,4340952
2009	fianna	p7	3	34,7866667	1,7192537
2009	fianna	p8	3	35,9633333	4,9831951
2009	irga	p1	3	22,5966667	2,4111685
2009	irga	p2	3	23,0833333	1,7130772
2009	irga	p3	3	30,9366667	2,2901164
2009	irga	p4	3	30,4133333	2,4850822
2009	irga	p5	3	25,5166667	1,9865129
2009	irga	p6	3	30,2466667	2,3418013
2009	irga	p7	3	30,0166667	3,4205896
2009	irga	p8	3	28,4466667	2,6422024

Table S3. ANOVA table for herbicide damage - 7 days after herbicide application

3.Tukey's studentized range (HSD) test for data3

Data3 = herbicide damage_7					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ..					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,395833				
Critical value of the studentized range	4,3824				
The difference is minimally significant	0,6499				
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	4,6111	18	p5	
	A				
B	A	4,1111	18	p7	
B					
B		3,9444	18	p8	
B					
B		3,6111	18	p6	
	C	2	18	p4	
	D	1,0556	18	p3	
	E	0	18	p1	
	E				
	E	0	18	p2	
Linear models					
GLM procedure					
Data3=herbicide damage_7					
Level	Level	N	Data3		

Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	1,875	1,59653157	
2007	irga	24	3,75	3,16571305	
2008	fianna	24	0,875	0,61237244	
2008	irga	24	1,41666667	1,01795476	
2009	fianna	24	2,125	1,84891272	
2009	irga	24	4,45833333	3,40050082	
Level	Level	N	Data3		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	0	0	
2007	p2	6	0	0	
2007	p3	6	1	0	
2007	p4	6	1,5	0,54772256	
2007	p5	6	5,5	2,42899156	
2007	p6	6	4,66666667	2,1602469	
2007	p7	6	5,16666667	2,04124145	
2007	p8	6	4,66666667	1,63299316	
2008	p1	6	0	0	
2008	p2	6	0	0	
2008	p3	6	1	0	
2008	p4	6	1,33333333	0,51639778	
2008	p5	6	2	0,89442719	
2008	p6	6	1,5	0,54772256	
2008	p7	6	1,5	0,54772256	
2008	p8	6	1,83333333	0,75277265	
2009	p1	6	0	0	
2009	p2	6	0	0	
2009	p3	6	1,16666667	0,40824829	
2009	p4	6	3,16666667	2,63944439	

2009	p5	6	6,33333333	1,63299316	
2009	p6	6	4,66666667	2,65832027	
2009	p7	6	5,66666667	2,25092574	
2009	p8	6	5,33333333	1,86189867	
Level	Level	N	Data3		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	0	0	
fianna	p2	9	0	0	
fianna	p3	9	1	0	
fianna	p4	9	1,22222222	0,44095855	
fianna	p5	9	3,22222222	1,71593836	
fianna	p6	9	2,11111111	1,36422546	
fianna	p7	9	2,66666667	1,32287566	
fianna	p8	9	2,77777778	1,30170828	
irga	p1	9	0	0	
irga	p2	9	0	0	
irga	p3	9	1,11111111	0,33333333	
irga	p4	9	2,77777778	2,16666667	
irga	p5	9	6	2,54950976	
irga	p6	9	5,11111111	2,3687784	
irga	p7	9	5,55555556	2,69773568	
irga	p8	9	5,11111111	2,14734979	
Level	Level	Level	N	Data3	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	0	0
2007	fianna	p2	3	0	0
2007	fianna	p3	3	1	0
2007	fianna	p4	3	1	0
2007	fianna	p5	3	3,33333333	0,57735027

2007	fianna	p6	3	3	1,73205081
2007	fianna	p7	3	3,33333333	0,57735027
2007	fianna	p8	3	3,33333333	1,15470054
2007	irga	p1	3	0	0
2007	irga	p2	3	0	0
2007	irga	p3	3	1	0
2007	irga	p4	3	2	0
2007	irga	p5	3	7,66666667	0,57735027
2007	irga	p6	3	6,33333333	0,57735027
2007	irga	p7	3	7	0
2007	irga	p8	3	6	0
2008	fianna	p1	3	0	0
2008	fianna	p2	3	0	0
2008	fianna	p3	3	1	0
2008	fianna	p4	3	1,33333333	0,57735027
2008	fianna	p5	3	1,33333333	0,57735027
2008	fianna	p6	3	1	0
2008	fianna	p7	3	1	0
2008	fianna	p8	3	1,33333333	0,57735027
2008	irga	p1	3	0	0
2008	irga	p2	3	0	0
2008	irga	p3	3	1	0
2008	irga	p4	3	1,33333333	0,57735027
2008	irga	p5	3	2,66666667	0,57735027
2008	irga	p6	3	2	0
2008	irga	p7	3	2	0
2008	irga	p8	3	2,33333333	0,57735027
2009	fianna	p1	3	0	0
2009	fianna	p2	3	0	0

2009	fianna	p3	3	1	0
2009	fianna	p4	3	1,33333333	0,57735027
2009	fianna	p5	3	5	1
2009	fianna	p6	3	2,33333333	1,15470054
2009	fianna	p7	3	3,66666667	0,57735027
2009	fianna	p8	3	3,66666667	0,57735027
2009	irga	p1	3	0	0
2009	irga	p2	3	0	0
2009	irga	p3	3	1,33333333	0,57735027
2009	irga	p4	3	5	2,64575131
2009	irga	p5	3	7,66666667	0,57735027
2009	irga	p6	3	7	0
2009	irga	p7	3	7,66666667	0,57735027
2009	irga	p8	3	7	0

Table S4. ANOVA table for herbicide damage - 14 days after herbicide application

4. Tukey's studentized range (HSD) test for data4					
Data4 = herbicide damage_14					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,291667				
Critical value of the studentized range	3,36669				
The difference is minimally significant	0,2624				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		



A	2,6875	48	2009		
B	1,6667	48	2007		
C	1,1042	48	2008		
Linear models GLM procedure					
4. Tukey's studentized range (HSD) test for data4					
Data4=herbicide damage_14					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,291667				
Critical value of the studentized range	2,80719				
The difference is minimally significant	0,1787				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	2,5	72	irga		
B	1,13889	72	fianna		
Modele liniowe					
Procedura GLM					
4. Tukey's studentized range (HSD) test for data4					

Features 4 = herbicide damage_14					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,291667				
Critical value of the studentized range	4,3824				
The difference is minimally significant	0,5579				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Care		
A	3,1667	18	p5		
A					
A	3	18	p6		
A					
A	2,9444	18	p8		
A					
A	2,7778	18	p7		
B	1,6667	18	p4		
C	1	18	p3		
D	0	18	p1		
D					
D	0	18	p2		
Linear models					
GLM procedure					
Data4=herbicide damage_14					

Level	Level		data4		
Years	Cultivar	N	Mean	Stand. Dev.	
2007	fianna	24	1,08333333	0,77553161	
2007	irga	24	2,25	1,82375628	
2008	fianna	24	0,875	0,61237244	
2008	irga	24	1,33333333	0,96308682	
2009	fianna	24	1,45833333	1,3824731	
2009	irga	24	3,91666667	3,09159684	
Level	Level		data4		
Years	Care	N	Mean	Stand. Dev.	
2007	p1	6	0	0	
2007	p2	6	0	0	
2007	p3	6	1	0	
2007	p4	6	1,33333333	0,51639778	
2007	p5	6	3,5	1,64316767	
2007	p6	6	2,33333333	1,21106014	
2007	p7	6	2,66666667	1,21106014	
2007	p8	6	2,5	1,22474487	
2008	p1	6	0	0	
2008	p2	6	0	0	
2008	p3	6	1	0	
2008	p4	6	1,16666667	0,40824829	
2008	p5	6	2	0,89442719	
2008	p6	6	1,5	0,54772256	
2008	p7	6	1,5	0,54772256	
2008	p8	6	1,66666667	0,51639778	
2009	p1	6	0	0	
2009	p2	6	0	0	
2009	p3	6	1	0	

2009	p4	6	2,5	2,34520788	
2009	p5	6	4	3,28633535	
2009	p6	6	5,16666667	1,47196014	
2009	p7	6	4,16666667	2,786874	
2009	p8	6	4,66666667	1,86189867	
Level	Level	N	Data 4		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	0	0	
fianna	p2	9	0	0	
fianna	p3	9	1	0	
fianna	p4	9	1,11111111	0,33333333	
fianna	p5	9	1,44444444	0,52704628	
fianna	p6	9	2,11111111	1,53659074	
fianna	p7	9	1,44444444	0,52704628	
fianna	p8	9	2	0,8660254	
irga	p1	9	0	0	
irga	p2	9	0	0	
irga	p3	9	1	0	
irga	p4	9	2,22222222	1,92209377	
irga	p5	9	4,88888889	1,90029238	
irga	p6	9	3,88888889	1,96497102	
irga	p7	9	4,11111111	2,08832735	
irga	p8	9	3,88888889	2,02758751	
Level	Level	Level	N	Data 4	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	0	0
2007	fianna	p2	3	0	0
2007	fianna	p3	3	1	0

2007	fianna	p4	3	1	0
2007	fianna	p5	3	2	0
2007	fianna	p6	3	1,33333333	0,57735027
2007	fianna	p7	3	1,66666667	0,57735027
2007	fianna	p8	3	1,66666667	0,57735027
2007	irga	p1	3	0	0
2007	irga	p2	3	0	0
2007	irga	p3	3	1	0
2007	irga	p4	3	1,66666667	0,57735027
2007	irga	p5	3	5	0
2007	irga	p6	3	3,33333333	0,57735027
2007	irga	p7	3	3,66666667	0,57735027
2007	irga	p8	3	3,33333333	1,15470054
2008	fianna	p1	3	0	0
2008	fianna	p2	3	0	0
2008	fianna	p3	3	1	0
2008	fianna	p4	3	1,33333333	0,57735027
2008	fianna	p5	3	1,33333333	0,57735027
2008	fianna	p6	3	1	0
2008	fianna	p7	3	1	0
2008	fianna	p8	3	1,33333333	0,57735027
2008	irga	p1	3	0	0
2008	irga	p2	3	0	0
2008	irga	p3	3	1	0
2008	irga	p4	3	1	0
2008	irga	p5	3	2,66666667	0,57735027
2008	irga	p6	3	2	0
2008	irga	p7	3	2	0
2008	irga	p8	3	2	0

2009	fianna	p1	3	0	0
2009	fianna	p2	3	0	0
2009	fianna	p3	3	1	0
2009	fianna	p4	3	1	0
2009	fianna	p5	3	1	0
2009	fianna	p6	3	4	1
2009	fianna	p7	3	1,66666667	0,57735027
2009	fianna	p8	3	3	0
2009	irga	p1	3	0	0
2009	irga	p2	3	0	0
2009	irga	p3	3	1	0
2009	irga	p4	3	4	2,64575131
2009	irga	p5	3	7	0
2009	irga	p6	3	6,33333333	0,57735027
2009	irga	p7	3	6,66666667	0,57735027
2009	irga	p8	3	6,33333333	0,57735027

Table S5. ANOVA table for herbicide damage - 21 days after herbicide application

5. Tukey's studentized range (HSD) test for data5					
Data5=herbicide damage_21					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,354167				
Critical value of the studentized range	3,36669				
The difference is minimally significant	0,2892				

Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	2,1042	48	2009		
B	1,1667	48	2007		
B					
B	1,0417	48	2008		
Linear models					
GLM procedure					
5. Tukey's studentized range (HSD) test for data5					
Data5=herbicide damage_21					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,354167				
Critical value of the studentized range	2,80719				
The difference is minimally significant	0,1969				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	1,81944	72	irga		
B	1,05556	72	fianna		
Linear models					
GLM procedure					
5. Tukey's studentized range (HSD) test for data5					
cechy4=herbicide damage_21					

Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,354167				
Critical value of the studentized range	4,3824				
The difference is minimally significant	0,6147				
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	2,4444	18	p5	
	A				
B	A	2,1111	18	p8	
B	A				
B	A	2,0556	18	p6	
B	A				
B	A	1,8889	18	p7	
B					
B	C	1,7778	18	p4	
	C				
	C	1,2222	18	p3	
	D	0	18	p1	
	D				
	D	0	18	p2	
Linear models GLM procedure					
Data5=herbicide damage_21					
Level	Level	N	Data5		
Years	Cultivar		Mean	Stand. Dev.	



2007	fianna	24	1,125	0,89987922	
2007	irga	24	1,20833333	0,88362724	
2008	fianna	24	0,875	0,61237244	
2008	irga	24	1,20833333	0,83297094	
2009	fianna	24	1,16666667	0,86811473	
2009	irga	24	3,04166667	2,4579802	
Level	Level	N	Data5		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	0	0	
2007	p2	6	0	0	
2007	p3	6	1,5	0,83666003	
2007	p4	6	2	0,63245553	
2007	p5	6	1,5	0,54772256	
2007	p6	6	1,5	0,83666003	
2007	p7	6	1,33333333	0,51639778	
2007	p8	6	1,5	0,54772256	
2008	p1	6	0	0	
2008	p2	6	0	0	
2008	p3	6	1	0	
2008	p4	6	1,33333333	0,51639778	
2008	p5	6	1,66666667	0,51639778	
2008	p6	6	1,5	0,54772256	
2008	p7	6	1,16666667	0,40824829	
2008	p8	6	1,66666667	0,51639778	
2009	p1	6	0	0	
2009	p2	6	0	0	
2009	p3	6	1,16666667	0,40824829	
2009	p4	6	2	1,54919334	
2009	p5	6	4,16666667	2,40138849	

2009	p6	6	3,16666667	2,04124145	
2009	p7	6	3,16666667	2,13697606	
2009	p8	6	3,16666667	1,32916014	
Level	Level	N	Data5		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	0	0	
fianna	p2	9	0	0	
fianna	p3	9	1,33333333	0,70710678	
fianna	p4	9	1,44444444	0,72648316	
fianna	p5	9	1,55555556	0,72648316	
fianna	p6	9	1,22222222	0,44095855	
fianna	p7	9	1,22222222	0,44095855	
fianna	p8	9	1,66666667	0,5	
irga	p1	9	0	0	
irga	p2	9	0	0	
irga	p3	9	1,11111111	0,33333333	
irga	p4	9	2,11111111	1,16666667	
irga	p5	9	3,33333333	2,23606798	
irga	p6	9	2,88888889	1,69148193	
irga	p7	9	2,55555556	1,94365063	
irga	p8	9	2,55555556	1,42400062	
Level	Level	Level	N	Data5	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	0	0
2007	fianna	p2	3	0	0
2007	fianna	p3	3	1,66666667	1,15470054
2007	fianna	p4	3	2	1
2007	fianna	p5	3	1	0
2007	fianna	p6	3	1,33333333	0,57735027

2007	fianna	p7	3	1,33333333	0,57735027
2007	fianna	p8	3	1,66666667	0,57735027
2007	irga	p1	3	0	0
2007	irga	p2	3	0	0
2007	irga	p3	3	1,33333333	0,57735027
2007	irga	p4	3	2	0
2007	irga	p5	3	2	0
2007	irga	p6	3	1,66666667	1,15470054
2007	irga	p7	3	1,33333333	0,57735027
2007	irga	p8	3	1,33333333	0,57735027
2008	fianna	p1	3	0	0
2008	fianna	p2	3	0	0
2008	fianna	p3	3	1	0
2008	fianna	p4	3	1,33333333	0,57735027
2008	fianna	p5	3	1,33333333	0,57735027
2008	fianna	p6	3	1	0
2008	fianna	p7	3	1	0
2008	fianna	p8	3	1,33333333	0,57735027
2008	irga	p1	3	0	0
2008	irga	p2	3	0	0
2008	irga	p3	3	1	0
2008	irga	p4	3	1,33333333	0,57735027
2008	irga	p5	3	2	0
2008	irga	p6	3	2	0
2008	irga	p7	3	1,33333333	0,57735027
2008	irga	p8	3	2	0
2009	fianna	p1	3	0	0
2009	fianna	p2	3	0	0
2009	fianna	p3	3	1,33333333	0,57735027

2009	fianna	p4	3	1	0
2009	fianna	p5	3	2,33333333	0,57735027
2009	fianna	p6	3	1,33333333	0,57735027
2009	fianna	p7	3	1,33333333	0,57735027
2009	fianna	p8	3	2	0
2009	irga	p1	3	0	0
2009	irga	p2	3	0	0
2009	irga	p3	3	1	0
2009	irga	p4	3	3	1,73205081
2009	irga	p5	3	6	2
2009	irga	p6	3	5	0
2009	irga	p7	3	5	1
2009	irga	p8	3	4,33333333	0,57735027

Table S6. ANOVA table for herbicide damage - 28 days after herbicide application

6. Tukey's studentized range (HSD) test for data6					
Data 6=herbicide damage_28					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,263889				
Critical value of the studentized range	2,80719				
The difference is minimally significant	0,1699				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	1,75	72	irga		

B	0,94444	72	fianna		
Linear models GLM procedure					
6. Tukey's studentized range (HSD) test for data6					
Data6=herbicide damage_28					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,263889				
Critical value of the studentized range	4,3824				
The difference is minimally significant	0,5306				
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	2,3889	18	p5	
	A				
B	A	1,9444	18	p8	
B	A				
B	A	1,8889	18	p6	
B					
B		1,7778	18	p7	
B					
B	C	1,5556	18	p4	
	C				
	C	1,2222	18	p3	
	D	0	18	p1	

	D				
	D	0	18	p2	
Linear models GLM procedure					
Data6=herbicide damage_28					
Level	Level		Data6		
Years	Cultivar		Mean	Standard Dev.	
2007	fianna	24	0,79166667	0,50897738	
2007	irga	24	1	0,72231512	
2008	fianna	24	0,875	0,61237244	
2008	irga	24	1,20833333	0,83297094	
2009	fianna	24	1,16666667	0,86811473	
2009	irga	24	3,04166667	2,4579802	
Level	Level		Data6		
Years	Care		Mean	Standard Dev.	
2007	p1	6	0	0	
2007	p2	6	0	0	
2007	p3	6	1,5	0,54772256	
2007	p4	6	1,33333333	0,51639778	
2007	p5	6	1,33333333	0,51639778	
2007	p6	6	1	0	
2007	p7	6	1	0	
2007	p8	6	1	0	
2008	p1	6	0	0	
2008	p2	6	0	0	
2008	p3	6	1	0	
2008	p4	6	1,33333333	0,51639778	

2008	p5	6	1,66666667	0,51639778	
2008	p6	6	1,5	0,54772256	
2008	p7	6	1,16666667	0,40824829	
2008	p8	6	1,66666667	0,51639778	
2009	p1	6	0	0	
2009	p2	6	0	0	
2009	p3	6	1,16666667	0,40824829	
2009	p4	6	2	1,54919334	
2009	p5	6	4,16666667	2,40138849	
2009	p6	6	3,16666667	2,04124145	
2009	p7	6	3,16666667	2,13697606	
2009	p8	6	3,16666667	1,32916014	
Level	Level	N	Data6		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	0	0	
fianna	p2	9	0	0	
fianna	p3	9	1,22222222	0,44095855	
fianna	p4	9	1,11111111	0,33333333	
fianna	p5	9	1,55555556	0,72648316	
fianna	p6	9	1,11111111	0,33333333	
fianna	p7	9	1,11111111	0,33333333	
fianna	p8	9	1,44444444	0,52704628	
irga	p1	9	0	0	
irga	p2	9	0	0	
irga	p3	9	1,22222222	0,44095855	
irga	p4	9	2	1,22474487	
irga	p5	9	3,22222222	2,33333333	
irga	p6	9	2,66666667	1,80277564	
irga	p7	9	2,44444444	2,00693243	

irga	p8	9	2,44444444	1,50923086	
Level	Level	Level	N	Data6	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	0	0
2007	fianna	p2	3	0	0
2007	fianna	p3	3	1,33333333	0,57735027
2007	fianna	p4	3	1	0
2007	fianna	p5	3	1	0
2007	fianna	p6	3	1	0
2007	fianna	p7	3	1	0
2007	fianna	p8	3	1	0
2007	irga	p1	3	0	0
2007	irga	p2	3	0	0
2007	irga	p3	3	1,66666667	0,57735027
2007	irga	p4	3	1,66666667	0,57735027
2007	irga	p5	3	1,66666667	0,57735027
2007	irga	p6	3	1	0
2007	irga	p7	3	1	0
2007	irga	p8	3	1	0
2008	fianna	p1	3	0	0
2008	fianna	p2	3	0	0
2008	fianna	p3	3	1	0
2008	fianna	p4	3	1,33333333	0,57735027
2008	fianna	p5	3	1,33333333	0,57735027
2008	fianna	p6	3	1	0
2008	fianna	p7	3	1	0
2008	fianna	p8	3	1,33333333	0,57735027
2008	irga	p1	3	0	0
2008	irga	p2	3	0	0



2008	irga	p3	3	1	0
2008	irga	p4	3	1,33333333	0,57735027
2008	irga	p5	3	2	0
2008	irga	p6	3	2	0
2008	irga	p7	3	1,33333333	0,57735027
2008	irga	p8	3	2	0
2009	fianna	p1	3	0	0
2009	fianna	p2	3	0	0
2009	fianna	p3	3	1,33333333	0,57735027
2009	fianna	p4	3	1	0
2009	fianna	p5	3	2,33333333	0,57735027
2009	fianna	p6	3	1,33333333	0,57735027
2009	fianna	p7	3	1,33333333	0,57735027
2009	fianna	p8	3	2	0
2009	irga	p1	3	0	0
2009	irga	p2	3	0	0
2009	irga	p3	3	1	0
2009	irga	p4	3	3	1,73205081
2009	irga	p5	3	6	2
2009	irga	p6	3	5	0
2009	irga	p7	3	5	1
2009	irga	p8	3	4,33333333	0,57735027

Table S7. ANOVA table for herbicide damage - 35 days after herbicide application

7. Tukey's studentized range (HSD) test for data7
Data7=herbicide damage_35
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.

Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,097222				
Critical value of the studentized range	3,36669				
The difference is minimally significant	0,1515				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	1,02083	48	2009		
B	0,83333	48	2007		
B					
B	0,75	48	2008		
Linear models					
GLM procedure					
7. Tukey's studentized range (HSD) test for data7					
Data7=herbicide damage_35					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,097222				
Critical value of the studentized range	2,80719				
The difference is minimally significant	0,1032				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	0,97222	72	irga		
B	0,76389	72	fianna		

Linear models GLM procedure					
7. Tukey's studentized range (HSD) test for data7					
Data7=herbicide damage_35					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,097222				
Critical value of the studentized range	4,3824				
The difference is minimally significant	0,3221				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Care		
A	1,2222	18	p8		
A					
A	1,1667	18	p5		
A					
A	1,1667	18	p3		
A					
A	1,1667	18	p7		
A					
A	1,1111	18	p6		
A					
A	1,1111	18	p4		
B	0	18	p1		
B					
B	0	18	p2		

Linear models GLM procedure					
Data7=herbicide damage_35					
Level	Level	N	Data7		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	0,79166667	0,50897738	
2007	irga	24	0,875	0,61237244	
2008	fianna	24	0,75	0,44232587	
2008	irga	24	0,75	0,44232587	
2009	fianna	24	0,75	0,44232587	
2009	irga	24	1,29166667	0,99909379	
Level	Level	N	Data7		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	0	0	
2007	p2	6	0	0	
2007	p3	6	1,33333333	0,51639778	
2007	p4	6	1,16666667	0,40824829	
2007	p5	6	1,16666667	0,40824829	
2007	p6	6	1	0	
2007	p7	6	1	0	
2007	p8	6	1	0	
2008	p1	6	0	0	
2008	p2	6	0	0	
2008	p3	6	1	0	
2008	p4	6	1	0	
2008	p5	6	1	0	
2008	p6	6	1	0	
2008	p7	6	1	0	
2008	p8	6	1	0	

2009	p1	6	0	0	
2009	p2	6	0	0	
2009	p3	6	1,16666667	0,40824829	
2009	p4	6	1,16666667	0,40824829	
2009	p5	6	1,33333333	0,51639778	
2009	p6	6	1,33333333	0,81649658	
2009	p7	6	1,5	0,83666003	
2009	p8	6	1,66666667	0,81649658	
Level	Level	N	Data7		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	0	0	
fianna	p2	9	0	0	
fianna	p3	9	1	0	
fianna	p4	9	1	0	
fianna	p5	9	1,11111111	0,33333333	
fianna	p6	9	1	0	
fianna	p7	9	1	0	
fianna	p8	9	1	0	
irga	p1	9	0	0	
irga	p2	9	0	0	
irga	p3	9	1,33333333	0,5	
irga	p4	9	1,22222222	0,44095855	
irga	p5	9	1,22222222	0,44095855	
irga	p6	9	1,22222222	0,66666667	
irga	p7	9	1,33333333	0,70710678	
irga	p8	9	1,44444444	0,72648316	
Level	Level	Level	N	Data7	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	0	0

2007	fianna	p2	3	0	0
2007	fianna	p3	3	1	0
2007	fianna	p4	3	1	0
2007	fianna	p5	3	1,33333333	0,57735027
2007	fianna	p6	3	1	0
2007	fianna	p7	3	1	0
2007	fianna	p8	3	1	0
2007	irga	p1	3	0	0
2007	irga	p2	3	0	0
2007	irga	p3	3	1,66666667	0,57735027
2007	irga	p4	3	1,33333333	0,57735027
2007	irga	p5	3	1	0
2007	irga	p6	3	1	0
2007	irga	p7	3	1	0
2007	irga	p8	3	1	0
2008	fianna	p1	3	0	0
2008	fianna	p2	3	0	0
2008	fianna	p3	3	1	0
2008	fianna	p4	3	1	0
2008	fianna	p5	3	1	0
2008	fianna	p6	3	1	0
2008	fianna	p7	3	1	0
2008	fianna	p8	3	1	0
2008	irga	p1	3	0	0
2008	irga	p2	3	0	0
2008	irga	p3	3	1	0
2008	irga	p4	3	1	0
2008	irga	p5	3	1	0
2008	irga	p6	3	1	0

2008	irga	p7	3	1	0
2008	irga	p8	3	1	0
2009	fianna	p1	3	0	0
2009	fianna	p2	3	0	0
2009	fianna	p3	3	1	0
2009	fianna	p4	3	1	0
2009	fianna	p5	3	1	0
2009	fianna	p6	3	1	0
2009	fianna	p7	3	1	0
2009	fianna	p8	3	1	0
2009	irga	p1	3	0	0
2009	irga	p2	3	0	0
2009	irga	p3	3	1,33333333	0,57735027
2009	irga	p4	3	1,33333333	0,57735027
2009	irga	p5	3	1,66666667	0,57735027
2009	irga	p6	3	1,66666667	1,15470054
2009	irga	p7	3	2	1
2009	irga	p8	3	2,33333333	0,57735027

Table S8. ANOVA table for herbicide damage - 42 days after herbicide application

8. Tukey's studentized range (HSD) test for data8					
Data8=herbicide damage_42					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ..					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,041667				
Critical value of the studentized range	3,36669				
The difference is minimally significant	0,0992				

Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	0,79167	48	2007		
A					
A	0,79167	48	2008		
A					
A	0,79167	48	2009		
Linear models					
GLM procedure					
8. Tukey's studentized range (HSD) test for data 8					
Data8=herbicide damage_42					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,041667				
Critical value of the studentized range	2,80719				
The difference is minimally significant	0,0675				
Średnie z tą samą literą nie					
różnią się istotnie.					
Grouping Tukey	Mean	N	Cultivar		
A	0,80556	72	fianna		
A					
A	0,77778	72	irga		
Modele liniowe					
Procedura GLM					
8. Tukey's studentized range (HSD) test for data8					



Data8=herbicide damage_42					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	0,041667				
Critical value of the studentized range	4,3824				
The difference is minimally significant	0,2108				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Care		
A	1	18	p5		
A					
A	1	18	p6		
A					
A	1	18	p3		
A					
A	1	18	p4		
A					
A	1	18	p7		
A					
A	1	18	p8		
B	0,16667	18	p1		
B					
B	0,16667	18	p2		
Linear models GLM procedure					
Data8=herbicide damage_42					
Level	Level	N	Data8		

Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	0,75	0,44232587	
2007	irga	24	0,83333333	0,38069349	
2008	fianna	24	0,83333333	0,38069349	
2008	irga	24	0,75	0,44232587	
2009	fianna	24	0,83333333	0,38069349	
Level	irga	24	0,75	0,44232587	
Years	Level	N	Data8		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	0,16666667	0,40824829	
2007	p2	6	0,16666667	0,40824829	
2007	p3	6	1	0	
2007	p4	6	1	0	
2007	p5	6	1	0	
2007	p6	6	1	0	
2007	p7	6	1	0	
2007	p8	6	1	0	
2008	p1	6	0,16666667	0,40824829	
2008	p2	6	0,16666667	0,40824829	
2008	p3	6	1	0	
2008	p4	6	1	0	
2008	p5	6	1	0	
2008	p6	6	1	0	
2008	p7	6	1	0	
2008	p8	6	1	0	
2009	p1	6	0,16666667	0,40824829	
2009	p2	6	0,16666667	0,40824829	
2009	p3	6	1	0	
2009	p4	6	1	0	

2009	p5	6	1	0	
2009	p6	6	1	0	
2009	p7	6	1	0	
2009	p8	6	1	0	
Level	Level	N	Data8		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	0,22222222	0,44095855	
fianna	p2	9	0,22222222	0,44095855	
fianna	p3	9	1	0	
fianna	p4	9	1	0	
fianna	p5	9	1	0	
fianna	p6	9	1	0	
fianna	p7	9	1	0	
fianna	p8	9	1	0	
irga	p1	9	0,11111111	0,33333333	
irga	p2	9	0,11111111	0,33333333	
irga	p3	9	1	0	
irga	p4	9	1	0	
irga	p5	9	1	0	
irga	p6	9	1	0	
irga	p7	9	1	0	
irga	p8	9	1	0	
Level	Level	Level	N	Data6	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	0	0
2007	fianna	p2	3	0	0
2007	fianna	p3	3	1	0
2007	fianna	p4	3	1	0
2007	fianna	p5	3	1	0

2007	fianna	p6	3	1	0
2007	fianna	p7	3	1	0
2007	fianna	p8	3	1	0
2007	irga	p1	3	0,33333333	0,57735027
2007	irga	p2	3	0,33333333	0,57735027
2007	irga	p3	3	1	0
2007	irga	p4	3	1	0
2007	irga	p5	3	1	0
2007	irga	p6	3	1	0
2007	irga	p7	3	1	0
2007	irga	p8	3	1	0
2008	fianna	p1	3	0,33333333	0,57735027
2008	fianna	p2	3	0,33333333	0,57735027
2008	fianna	p3	3	1	0
2008	fianna	p4	3	1	0
2008	fianna	p5	3	1	0
2008	fianna	p6	3	1	0
2008	fianna	p7	3	1	0
2008	fianna	p8	3	1	0
2008	irga	p1	3	0	0
2008	irga	p2	3	0	0
2008	irga	p3	3	1	0
2008	irga	p4	3	1	0
2008	irga	p5	3	1	0
2008	irga	p6	3	1	0
2008	irga	p7	3	1	0
2008	irga	p8	3	1	0
2009	fianna	p1	3	0,33333333	0,57735027
2009	fianna	p2	3	0,33333333	0,57735027

2009	fianna	p3	3	1	0
2009	fianna	p4	3	1	0
2009	fianna	p5	3	1	0
2009	fianna	p6	3	1	0
2009	fianna	p7	3	1	0
2009	fianna	p8	3	1	0
2009	irga	p1	3	0	0
2009	irga	p2	3	0	0
2009	irga	p3	3	1	0
2009	irga	p4	3	1	0
2009	irga	p5	3	1	0
2009	irga	p6	3	1	0
2009	irga	p7	3	1	0
2009	irga	p8	3	1	0

Table S9. Table Analysis of variance ANOVA of number of monocotyledonous weeds before short circuit of potato rows

9. Tukey's studentized range (HSD) test for data9					
Data9=Number of monocotyledonous weeds before short circuit					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	10,875				
Critical value of the studentized range	3,36669				
The difference is minimally significant	1,6025				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		

A	10,1875	48	2008		
B	6,8958	48	2007		
C	3,4375	48	2009		
Linear models GLM procedure					
9. Tukey's studentized range (HSD) test for data9					
Data9=Number of monocotyledonous weeds before short circuit					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	10,875				
Critical value of the studentized range	2,80719				
The difference is minimally significant	1,091				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	7,4722	72	irga		
B	6,2083	72	fianna		
Linear models GLM procedure					
9. Tukey's studentized range (HSD) test for data9					
Data9=Number of monocotyledonous weeds before short circuit					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	10,875				

Critical value of the studentized range	4,3824				
The difference is minimally significant	3,4064				
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	15,889	18	p1	
	B	7,167	18	p2	
	B				
C	B	6,778	18	p6	
C	B				
C	B	6,444	18	p5	
C	B				
C	B	5,944	18	p3	
C	B				
C	B	5	18	p7	
C	B				
C	B	3,778	18	p4	
C					
C		3,722	18	p8	
Linear models GLM procedure					
Data9=Number of monocotyledonous weeds before short circuit					
Level	Level	N	Data9		
years	Care		Mean	Stand. Dev.	
2007	fianna	24	6,2916667	5,22934169	
2007	irga	24	7,5	3,85610752	
2008	fianna	24	9,5833333	8,79187702	
2008	irga	24	10,7916667	7,92891882	
2009	fianna	24	2,75	2,21162934	
2009	irga	24	4,125	4,78505372	

Level	Level	N	Data9		
years	care		Mean	Stand. Dev.	
2007	p1	6	15,3333333	4,0824829	
2007	p2	6	2,8333333	1,94079022	
2007	p3	6	9	2,44948974	
2007	p4	6	6,3333333	2,87518115	
2007	p5	6	4,8333333	1,94079022	
2007	p6	6	6,8333333	2,99443929	
2007	p7	6	5,1666667	4,57893729	
2007	p8	6	4,8333333	2,13697606	
2008	p1	6	26,8333333	6,5243135	
2008	p2	6	10,3333333	4,45720391	
2008	p3	6	4	2,28035085	
2008	p4	6	1	1,26491106	
2008	p5	6	13,1666667	4,16733328	
2008	p6	6	11,5	3,61939221	
2008	p7	6	9,1666667	4,21505239	
2008	p8	6	5,5	3,27108545	
2009	p1	6	5,5	4,59347363	
2009	p2	6	8,3333333	6,05530071	
2009	p3	6	4,8333333	1,94079022	
2009	p4	6	4	2,19089023	
2009	p5	6	1,3333333	0,81649658	
2009	p6	6	2	1,67332005	
2009	p7	6	0,6666667	0,81649658	
2009	p8	6	0,8333333	0,40824829	
Level	Level	N	Data9		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	16,7777778	11,155467	



fianna	p2	9	4,8888889	4,044887	
fianna	p3	9	5,5555556	3,4318767	
fianna	p4	9	3,6666667	2,7386128	
fianna	p5	9	5,2222222	4,5215533	
fianna	p6	9	5,5555556	4,1566546	
fianna	p7	9	4	4,9749372	
fianna	p8	9	4	3,8078866	
irga	p1	9	15	9,7467943	
irga	p2	9	9,4444444	5,6813535	
irga	p3	9	6,3333333	2,8284271	
irga	p4	9	3,8888889	3,5158372	
irga	p5	9	7,6666667	6,726812	
irga	p6	9	8	5,3619026	
irga	p7	9	6	4,9749372	
irga	p8	9	3,4444444	2,1278576	
Level	Level	Level	N	Data9	
years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	16,6666667	4,163332
2007	fianna	p2	3	1,6666667	2,081666
2007	fianna	p3	3	8,3333333	3,51188458
2007	fianna	p4	3	5,3333333	3,51188458
2007	fianna	p5	3	3,6666667	1,52752523
2007	fianna	p6	3	7	3,60555128
2007	fianna	p7	3	2,6666667	3,05505046
2007	fianna	p8	3	5	3
2007	irga	p1	3	14	4,35889894
2007	irga	p2	3	4	1
2007	irga	p3	3	9,6666667	1,15470054
2007	irga	p4	3	7,3333333	2,30940108

2007	irga	p5	3	6	1,73205081
2007	irga	p6	3	6,6666667	3,05505046
2007	irga	p7	3	7,6666667	4,93288286
2007	irga	p8	3	4,6666667	1,52752523
2008	fianna	p1	3	28,6666667	7,57187779
2008	fianna	p2	3	8,3333333	5,03322296
2008	fianna	p3	3	4,3333333	3,21455025
2008	fianna	p4	3	1,3333333	1,52752523
2008	fianna	p5	3	10,3333333	4,04145188
2008	fianna	p6	3	8,6666667	2,51661148
2008	fianna	p7	3	8,6666667	6,11010093
2008	fianna	p8	3	6,3333333	4,72581563
2008	irga	p1	3	25	6,244998
2008	irga	p2	3	12,3333333	3,51188458
2008	irga	p3	3	3,6666667	1,52752523
2008	irga	p4	3	0,6666667	1,15470054
2008	irga	p5	3	16	1,73205081
2008	irga	p6	3	14,3333333	1,52752523
2008	irga	p7	3	9,6666667	2,51661148
2008	irga	p8	3	4,6666667	1,52752523
2009	fianna	p1	3	5	1,73205081
2009	fianna	p2	3	4,6666667	1,52752523
2009	fianna	p3	3	4	2,64575131
2009	fianna	p4	3	4,3333333	1,52752523
2009	fianna	p5	3	1,6666667	1,15470054
2009	fianna	p6	3	1	1
2009	fianna	p7	3	0,6666667	0,57735027
2009	fianna	p8	3	0,6666667	0,57735027
2009	irga	p1	3	6	7

2009	irga	p2	3	12	7
2009	irga	p3	3	5,6666667	0,57735027
2009	irga	p4	3	3,6666667	3,05505046
2009	irga	p5	3	1	0
2009	irga	p6	3	3	1,73205081
2009	irga	p7	3	0,6666667	1,15470054
2009	irga	p8	3	1	0

Table S10. Table Analysis of variance ANOVA of number of dicotyledonous weeds before short circuit of potato rows

10. Tukey's studentized range (HSD) test for data10					
Data10= Number of dicotyledonous weeds before short circuit of potato rows					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	14,59028				
Critical value of the studentized range	3,36669				
The difference is minimally significant	1,8562				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	11,75	48	2009		
B	2,3542	48	2007		
B					
B	1,6458	48	2008		
Linear models GLM procedure					

10. Tukey's studentized range (HSD) test for data10					
Data10= Number of dicotyledonous weeds before short circuit of potato rows					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	14,59028				
Critical value of the studentized range	2,80719				
The difference is minimally significant	1,2637				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	5,375	72	fianna		
A					
A	5,125	72	irga		
Linear models GLM procedure					
10. Tukey's studentized range (HSD) test for data10					
Data10= Number of dicotyledonous weeds before short circuit of potato rows					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	14,59028				
Critical value of the studentized range	4,3824				
The difference is minimally significant	3,9456				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Care		
A	17,389	18	p1		

B	9,556	18	p2		
C	4,556	18	p3		
C					
C	3,056	18	p6		
C					
C	2,222	18	p7		
C					
C	2,056	18	p4		
C					
C	1,833	18	p5		
C					
C	1,333	18	p8		
Linear models GLM procedure					
Data10= Number of dicotyledonous weeds before short circuit of potato rows					
Level	Level	N	Data10		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	3,4166667	3,2291696	
2007	irga	24	1,2916667	1,9219367	
2008	fianna	24	2,1666667	3,088079	
2008	irga	24	1,125	1,8252457	
2009	fianna	24	10,5416667	12,3216994	
2009	irga	24	12,9583333	15,7465777	
Level	Level	N	Data10		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	6,3333333	4,2739521	
2007	p2	6	0,5	0,83666	
2007	p3	6	2	2,607681	
2007	p4	6	1,1666667	1,9407902	

2007	p5	6	3,6666667	2,2509257	
2007	p6	6	2,5	2,0736441	
2007	p7	6	2	1,8973666	
2007	p8	6	0,6666667	1,6329932	
2008	p1	6	7	3,7416574	
2008	p2	6	2,1666667	0,7527727	
2008	p3	6	0	0	
2008	p4	6	0	0	
2008	p5	6	1	0,8944272	
2008	p6	6	1,1666667	1,3291601	
2008	p7	6	1,1666667	0,7527727	
2008	p8	6	0,6666667	0,8164966	
2009	p1	6	38,8333333	12,8594971	
2009	p2	6	26	7,2387844	
2009	p3	6	11,6666667	5,8878406	
2009	p4	6	5	3,3466401	
2009	p5	6	0,8333333	0,7527727	
2009	p6	6	5,5	5,7532599	
2009	p7	6	3,5	1,7606817	
2009	p8	6	2,6666667	1,8618987	
Level	Level	N	Data10		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	18,1111111	14,2517056	
fianna	p2	9	8,1111111	10,2157286	
fianna	p3	9	4,2222222	5,0194068	
fianna	p4	9	2,1111111	2,8037673	
fianna	p5	9	2,2222222	1,9220938	
fianna	p6	9	4,2222222	4,9441323	
fianna	p7	9	2,3333333	1,4142136	

fianna	p8	9	1,6666667	1,6583124	
irga	p1	9	16,6666667	20,8985645	
irga	p2	9	11	15,1575064	
irga	p3	9	4,8888889	7,6720995	
irga	p4	9	2	3,4278273	
irga	p5	9	1,4444444	1,9436506	
irga	p6	9	1,8888889	2,0883273	
irga	p7	9	2,1111111	2,1473498	
irga	p8	9	1	1,8027756	
Level	Level	Level	N	Data10	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	10	1
2007	fianna	p2	3	1	1
2007	fianna	p3	3	3,6666667	2,8867513
2007	fianna	p4	3	2	2,6457513
2007	fianna	p5	3	4,3333333	1,5275252
2007	fianna	p6	3	2,3333333	1,5275252
2007	fianna	p7	3	2,6666667	2,3094011
2007	fianna	p8	3	1,3333333	2,3094011
2007	irga	p1	3	2,6666667	2,081666
2007	irga	p2	3	0	0
2007	irga	p3	3	0,3333333	0,5773503
2007	irga	p4	3	0,3333333	0,5773503
2007	irga	p5	3	3	3
2007	irga	p6	3	2,6666667	2,8867513
2007	irga	p7	3	1,3333333	1,5275252
2007	irga	p8	3	0	0
2008	fianna	p1	3	9	4,3588989
2008	fianna	p2	3	2	1

2008	fianna	p3	3	0	0
2008	fianna	p4	3	0	0
2008	fianna	p5	3	1,3333333	1,1547005
2008	fianna	p6	3	2,3333333	0,5773503
2008	fianna	p7	3	1,3333333	0,5773503
2008	fianna	p8	3	1,3333333	0,5773503
2008	irga	p1	3	5	2
2008	irga	p2	3	2,3333333	0,5773503
2008	irga	p3	3	0	0
2008	irga	p4	3	0	0
2008	irga	p5	3	0,6666667	0,5773503
2008	irga	p6	3	0	0
2008	irga	p7	3	1	1
2008	irga	p8	3	0	0
2009	fianna	p1	3	35,3333333	11,1504858
2009	fianna	p2	3	21,3333333	4,6188022
2009	fianna	p3	3	9	5,5677644
2009	fianna	p4	3	4,3333333	3,2145503
2009	fianna	p5	3	1	1
2009	fianna	p6	3	8	7,9372539
2009	fianna	p7	3	3	0
2009	fianna	p8	3	2,3333333	2,081666
2009	irga	p1	3	42,3333333	15,8850034
2009	irga	p2	3	30,6666667	6,6583281
2009	irga	p3	3	14,3333333	5,8594653
2009	irga	p4	3	5,6666667	4,0414519
2009	irga	p5	3	0,6666667	0,5773503
2009	irga	p6	3	3	1
2009	irga	p7	3	4	2,6457513



2009	irga	p8	3	3	2
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Table S11. Table Analysis of variance ANOVA of number of monocotyledonous and dicotyledonous weeds before short circuit of potato rows

11. Tukey's studentized range (HSD) test for data11					
Data11=Number of monocotyledonous and dicotyledonous weeds before short circuit of potato rows					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	29,22222				
Critical value of the studentized range	3,36669				
The difference is minimally significant	2,6269				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	15,188	48	2009		
B	11,833	48	2008		
B					
B	9,229	48	2007		
Linear models GLM procedure					
11. Tukey's studentized range (HSD) test for data11					
Data11= Number of monocotyledonous and dicotyledonous weeds before short circuit of potato rows					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	29,22222				
Critical value of the studentized range	2,80719				

The difference is minimally significant	1,7884				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	12,5972	72	irga		
A					
A	11,5694	72	fianna		
Linear models GLM procedure					
11. Tukey's studentized range (HSD) test for data11					
Data11= Number of monocotyledonous and dicotyledonous weeds before short circuit of potato rows					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	29,22222				
Critical value of the studentized range	4,3824				
The difference is minimally significant	5,5838				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Care		
A	33,222	18	p1		
B	16,722	18	p2		
C	10,5	18	p3		
C					
C	9,833	18	p6		
C					
C	8,278	18	p5		
C					
C	7,222	18	p7		

C					
C	5,833	18	p4		
C					
C	5,056	18	p8		
Linear models GLM procedure					
Data11= Number of monocotyledonous and dicotyledonous weeds before short circuit of potato rows					
Level	Level	N	Data11		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	9,6666667	7,2989974	
2007	irga	24	8,7916667	4,8452502	
2008	fianna	24	11,75	11,5051973	
2008	irga	24	11,9166667	9,361887	
2009	fianna	24	13,2916667	13,6269527	
2009	irga	24	17,0833333	19,1468391	
Level	Level	N	Data11		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	21,5	7,0356236	
2007	p2	6	3,3333333	1,8618987	
2007	p3	6	11	2	
2007	p4	6	7,5	1,6431677	
2007	p5	6	8,5	2,9495762	
2007	p6	6	9,3333333	3,3862467	
2007	p7	6	7,1666667	4,4907312	
2007	p8	6	5,5	1,6431677	
2008	p1	6	33,8333333	9,2394084	
2008	p2	6	12,5	4,929503	
2008	p3	6	4	2,2803509	
2008	p4	6	1	1,2649111	
2008	p5	6	14,1666667	3,5449495	

2008	p6	6	12,6666667	2,8047579	
2008	p7	6	10,3333333	4,0824829	
2008	p8	6	6,1666667	3,7638633	
2009	p1	6	44,3333333	15,1084965	
2009	p2	6	34,3333333	11,7075474	
2009	p3	6	16,5	7,1484264	
2009	p4	6	9	5,138093	
2009	p5	6	2,1666667	1,1690452	
2009	p6	6	7,5	5,8906706	
2009	p7	6	4,1666667	1,1690452	
2009	p8	6	3,5	1,8708287	
Level	Level	N	Data11		
Care	Care		Mean	Stand. Dev.	
fianna	p1	9	34,7777778	9,743944	
fianna	p2	9	13	10,8857705	
fianna	p3	9	9,7777778	6,0161819	
fianna	p4	9	5,7777778	4,2360883	
fianna	p5	9	7,4444444	4,3043905	
fianna	p6	9	9,7777778	5,3098441	
fianna	p7	9	6,3333333	4,2720019	
fianna	p8	9	5,6666667	3,5355339	
irga	p1	9	31,6666667	17,958285	
irga	p2	9	20,4444444	18,2695861	
irga	p3	9	11,2222222	7,6937926	
irga	p4	9	5,8888889	5,3255151	
irga	p5	9	9,1111111	6,9362173	
irga	p6	9	9,8888889	3,982601	
irga	p7	9	8,1111111	4,2557151	
irga	p8	9	4,4444444	1,5092309	

Level	Level	Level	N	Data11	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	26,3333333	4,0414519
2007	fianna	p2	3	2,6666667	2,5166115
2007	fianna	p3	3	12	2
2007	fianna	p4	3	7,3333333	1,5275252
2007	fianna	p5	3	8	0
2007	fianna	p6	3	9,3333333	4,9328829
2007	fianna	p7	3	5,3333333	1,1547005
2007	fianna	p8	3	6,3333333	1,5275252
2007	irga	p1	3	16,6666667	6,1101009
2007	irga	p2	3	4	1
2007	irga	p3	3	10	1,7320508
2007	irga	p4	3	7,6666667	2,081666
2007	irga	p5	3	9	4,5825757
2007	irga	p6	3	9,3333333	2,081666
2007	irga	p7	3	9	6,244998
2007	irga	p8	3	4,6666667	1,5275252
2008	fianna	p1	3	37,6666667	10,40833
2008	fianna	p2	3	10,3333333	5,5075705
2008	fianna	p3	3	4,3333333	3,2145503
2008	fianna	p4	3	1,3333333	1,5275252
2008	fianna	p5	3	11,6666667	3,2145503
2008	fianna	p6	3	11	3
2008	fianna	p7	3	10	6,244998
2008	fianna	p8	3	7,6666667	5,1316014
2008	irga	p1	3	30	7,8102497
2008	irga	p2	3	14,6666667	4,0414519
2008	irga	p3	3	3,6666667	1,5275252

2008	irga	p4	3	0,6666667	1,1547005
2008	irga	p5	3	16,6666667	1,5275252
2008	irga	p6	3	14,3333333	1,5275252
2008	irga	p7	3	10,6666667	1,5275252
2008	irga	p8	3	4,6666667	1,5275252
2009	fianna	p1	3	40,3333333	9,4516313
2009	fianna	p2	3	26	3,6055513
2009	fianna	p3	3	13	7,9372539
2009	fianna	p4	3	8,6666667	4,6188022
2009	fianna	p5	3	2,6666667	1,5275252
2009	fianna	p6	3	9	8,7177979
2009	fianna	p7	3	3,6666667	0,5773503
2009	fianna	p8	3	3	2
2009	irga	p1	3	48,3333333	20,81666
2009	irga	p2	3	42,6666667	11,0151411
2009	irga	p3	3	20	5,2915026
2009	irga	p4	3	9,3333333	6,6583281
2009	irga	p5	3	1,6666667	0,5773503
2009	irga	p6	3	6	2
2009	irga	p7	3	4,6666667	1,5275252
2009	irga	p8	3	4	2

Table S12. ANOVA table of monocotyledonous weeds before potato harvest

12. Tukey's studentized range (HSD) test for data12
Data12=The number of monocotyledonous weeds before potato harvest
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ

Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	17,5625				
Critical value of the studentized range	3,36669				
The difference is minimally significant	2,0365				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	12,5208	48	2008		
B	7,8958	48	2007		
B					
B	6,2292	48	2009		
Linear models GLM procedure					
12. Tukey's studentized range (HSD) test for data12					
Data12=The number of monocotyledonous weeds before potato harvest					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	17,5625				
Critical value of the studentized range	2,80719				
The difference is minimally significant	1,3864				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	9,8194	72	irga		
B	7,9444	72	fianna		
Modele liniowe					
12. Tukey's studentized range (HSD) test for data12					

Data12=The number of monocotyledonous weeds before potato harvest					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	17,5625				
Critical value of the studentized range	4,3824				
The difference is minimally significant	4,3288				
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	18,056	18	p1	
	B	10,444	18	p2	
	B				
	B	9	18	p3	
	B				
C	B	8,167	18	p5	
C	B				
C	B	8	18	p6	
C	B				
C	B	6,611	18	p4	
C	B				
C	B	6,556	18	p7	
C					
C		4,222	18	p8	
Linear models GLM procedure					
Data12=The number of monocotyledonous weeds before potato harvest					
Level	Level	N	Data12		
Years	Cultivar		Mean	Stand. Dev.	



2007	fianna	24	7,375	3,28120471	
2007	irga	24	8,4166667	4,41259725	
2008	fianna	24	12,2083333	9,69974974	
2008	irga	24	12,8333333	9,10168005	
2009	fianna	24	4,25	4,2656362	
2009	irga	24	8,2083333	8,5362611	
Level	Level	N	Data12		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	14,5	4,4609416	
2007	p2	6	8,1666667	2,786874	
2007	p3	6	7,8333333	1,8348479	
2007	p4	6	8,5	1,5165751	
2007	p5	6	7,6666667	3,6147845	
2007	p6	6	6	2,7568098	
2007	p7	6	5,5	1,7606817	
2007	p8	6	5	3,2249031	
2008	p1	6	30,8333333	6,2102067	
2008	p2	6	12,5	3,0166206	
2008	p3	6	5,3333333	3,4448028	
2008	p4	6	1,8333333	1,4719601	
2008	p5	6	15	6,0663004	
2008	p6	6	15	4,0496913	
2008	p7	6	13	5,2915026	
2008	p8	6	6,6666667	3,7771241	
2009	p1	6	8,8333333	3,1251667	
2009	p2	6	10,6666667	3,0110906	
2009	p3	6	13,8333333	10,1472492	
2009	p4	6	9,5	10,559356	
2009	p5	6	1,8333333	1,9407902	

2009	p6	6	3	2,1908902	
2009	p7	6	1,1666667	0,7527727	
2009	p8	6	1	0,8944272	
Level	Level	N	Data12		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	17,1111111	12,323194	
fianna	p2	9	9,8888889	3,9193253	
fianna	p3	9	7,2222222	2,9907264	
fianna	p4	9	5,4444444	4,772607	
fianna	p5	9	7,1111111	6,3333333	
fianna	p6	9	6,4444444	5,1747249	
fianna	p7	9	5,8888889	5,7106139	
fianna	p8	9	4,4444444	4,8505441	
irga	p1	9	19	9,1923882	
irga	p2	9	11	2,6925824	
irga	p3	9	10,7777778	9,2975505	
irga	p4	9	7,7777778	8,5261037	
irga	p5	9	9,2222222	7,4962954	
irga	p6	9	9,5555556	6,6541549	
irga	p7	9	7,2222222	6,3201617	
irga	p8	9	4	2,236068	
Level	Level	Level	N	Data12	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	11	2
2007	fianna	p2	3	6,3333333	2,3094011
2007	fianna	p3	3	8,6666667	1,5275252
2007	fianna	p4	3	9	1
2007	fianna	p5	3	7,6666667	4,7258156
2007	fianna	p6	3	6	3,4641016

2007	fianna	p7	3	5,6666667	2,3094011
2007	fianna	p8	3	4,6666667	5,033223
2007	irga	p1	3	18	3
2007	irga	p2	3	10	2
2007	irga	p3	3	7	2
2007	irga	p4	3	8	2
2007	irga	p5	3	7,6666667	3,2145503
2007	irga	p6	3	6	2,6457513
2007	irga	p7	3	5,3333333	1,5275252
2007	irga	p8	3	5,3333333	0,5773503
2008	fianna	p1	3	32,6666667	5,8594653
2008	fianna	p2	3	14	1,7320508
2008	fianna	p3	3	6	5,1961524
2008	fianna	p4	3	1,3333333	1,5275252
2008	fianna	p5	3	12,6666667	5,8594653
2008	fianna	p6	3	12	2,6457513
2008	fianna	p7	3	11	7
2008	fianna	p8	3	8	5,2915026
2008	irga	p1	3	29	7,2111026
2008	irga	p2	3	11	3,6055513
2008	irga	p3	3	4,6666667	1,1547005
2008	irga	p4	3	2,3333333	1,5275252
2008	irga	p5	3	17,3333333	6,4291005
2008	irga	p6	3	18	2,6457513
2008	irga	p7	3	15	3
2008	irga	p8	3	5,3333333	1,5275252
2009	fianna	p1	3	7,6666667	4,0414519
2009	fianna	p2	3	9,3333333	2,8867513
2009	fianna	p3	3	7	1

2009	fianna	p4	3	6	6,5574385
2009	fianna	p5	3	1	1
2009	fianna	p6	3	1,3333333	1,5275252
2009	fianna	p7	3	1	1
2009	fianna	p8	3	0,6666667	0,5773503
2009	irga	p1	3	10	2
2009	irga	p2	3	12	3
2009	irga	p3	3	20,6666667	10,7857931
2009	irga	p4	3	13	14,106736
2009	irga	p5	3	2,6666667	2,5166115
2009	irga	p6	3	4,6666667	1,1547005
2009	irga	p7	3	1,3333333	0,5773503
2009	irga	p8	3	1,3333333	1,1547005

Table S13. ANOVA table of broadleaf weeds before potato harvest

13. Tukey's studentized range (HSD) test for data13					
Data13=The number of dicotyledonous weeds before potato harvest					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	23,38194				
Critical value of the studentized range	3,36669				
The difference is minimally significant	2,3498				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	19,1875	48	2009		

B	3,0417	48	2008		
B					
B	2,7083	48	2007		
Linear models GLM procedure					
13. Tukey's studentized range (HSD) test for data13					
Data13=The number of dicotyledonous weeds before potato harvest					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	23,38194				
Critical value of the studentized range	2,80719				
The difference is minimally significant	1,5997				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	9,25	72	irga		
B	7,375	72	fianna		
Linear models GLM procedure					
13. Tukey's studentized range (HSD) test for data13					
Data13=The number of dicotyledonous weeds before potato harvest					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	23,38194				
Critical value of the studentized range	4,3824				

The difference is minimally significant		4,9948			
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	21,444	18	p1	
	B	13,444	18	p2	
	B				
C	B	10,167	18	p3	
C					
C	D	5,278	18	p6	
	D				
	D	5,167	18	p7	
	D				
	D	4,556	18	p4	
	D				
	D	3,278	18	p5	
	D				
	D	3,167	18	p8	
Linear models GLM procedure					
Data13=The number of dicotyledonous weeds before potato harvest					
Level	Level	N	Data13		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	3,0416667	1,8528278	
2007	irga	24	2,375	2,4283202	
2008	fianna	24	3,625	3,2277668	
2008	irga	24	2,4583333	2,5191297	
2009	fianna	24	15,4583333	13,9376848	
2009	irga	24	22,9166667	21,8988121	
Level	Level	N	Data13		

Years	Care		Mean	Stand. Dev.	
2007	p1	6	3,6666667	1,9663842	
2007	p2	6	1,1666667	0,7527727	
2007	p3	6	2,6666667	1,8618987	
2007	p4	6	1,5	1,5165751	
2007	p5	6	5	2,1908902	
2007	p6	6	3,1666667	2,228602	
2007	p7	6	3,3333333	2,1602469	
2007	p8	6	1,1666667	1,9407902	
2008	p1	6	8,8333333	1,8348479	
2008	p2	6	4,1666667	2,1369761	
2008	p3	6	0,3333333	0,5163978	
2008	p4	6	0,3333333	0,5163978	
2008	p5	6	2,8333333	2,1369761	
2008	p6	6	3	2,0976177	
2008	p7	6	2,1666667	0,7527727	
2008	p8	6	2,6666667	1,3662601	
2009	p1	6	51,8333333	16,3880037	
2009	p2	6	35	13,6674797	
2009	p3	6	27,5	3,9874804	
2009	p4	6	11,8333333	11,6175155	
2009	p5	6	2	3,0331502	
2009	p6	6	9,6666667	8,6641022	
2009	p7	6	10	2,4494897	
2009	p8	6	5,6666667	5,0859283	
Level	Level	N	Data13		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	17,8888889	16,6316298	
fianna	p2	9	10,6666667	12,5499004	

fianna	p3	9	9,5555556	11,5770367	
fianna	p4	9	3,6666667	6,1032778	
fianna	p5	9	2,8888889	2,0275875	
fianna	p6	9	6,1111111	7,2705647	
fianna	p7	9	4,8888889	3,6893239	
fianna	p8	9	3,3333333	3,122499	
irga	p1	9	25	30,2696217	
irga	p2	9	16,2222222	21,7070137	
irga	p3	9	10,7777778	14,7459976	
irga	p4	9	5,4444444	10,345423	
irga	p5	9	3,6666667	3,2787193	
irga	p6	9	4,4444444	4,4752405	
irga	p7	9	5,4444444	4,4752405	
irga	p8	9	3	4,2130749	
Level	Level	Level	N	Data13	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	4,3333333	2,081666
2007	fianna	p2	3	1,6666667	0,5773503
2007	fianna	p3	3	4	1
2007	fianna	p4	3	1,3333333	1,1547005
2007	fianna	p5	3	3,3333333	1,5275252
2007	fianna	p6	3	4,3333333	1,1547005
2007	fianna	p7	3	3,3333333	2,5166115
2007	fianna	p8	3	2	2,6457513
2007	irga	p1	3	3	2
2007	irga	p2	3	0,6666667	0,5773503
2007	irga	p3	3	1,3333333	1,5275252
2007	irga	p4	3	1,6666667	2,081666
2007	irga	p5	3	6,6666667	1,1547005



2007	irga	p6	3	2	2,6457513
2007	irga	p7	3	3,3333333	2,3094011
2007	irga	p8	3	0,3333333	0,5773503
2008	fianna	p1	3	10	1,7320508
2008	fianna	p2	3	4,3333333	2,081666
2008	fianna	p3	3	0	0
2008	fianna	p4	3	0,3333333	0,5773503
2008	fianna	p5	3	4,3333333	2,081666
2008	fianna	p6	3	4,6666667	0,5773503
2008	fianna	p7	3	2,3333333	0,5773503
2008	fianna	p8	3	3	2
2008	irga	p1	3	7,6666667	1,1547005
2008	irga	p2	3	4	2,6457513
2008	irga	p3	3	0,6666667	0,5773503
2008	irga	p4	3	0,3333333	0,5773503
2008	irga	p5	3	1,3333333	0,5773503
2008	irga	p6	3	1,3333333	1,5275252
2008	irga	p7	3	2	1
2008	irga	p8	3	2,3333333	0,5773503
2009	fianna	p1	3	39,3333333	6,350853
2009	fianna	p2	3	26	9,539392
2009	fianna	p3	3	24,6666667	3,0550505
2009	fianna	p4	3	9,3333333	8,6216781
2009	fianna	p5	3	1	1
2009	fianna	p6	3	9,3333333	13,6503968
2009	fianna	p7	3	9	3
2009	fianna	p8	3	5	4,5825757
2009	irga	p1	3	64,3333333	12,7410099
2009	irga	p2	3	44	11,5325626

2009	irga	p3	3	30,3333333	2,5166115
2009	irga	p4	3	14,3333333	15,6311655
2009	irga	p5	3	3	4,3588989
2009	irga	p6	3	10	1
2009	irga	p7	3	11	1,7320508
2009	irga	p8	3	6,3333333	6,5064071

Table S14. Table of variance analysis of ANOVA of number of monocotyledonous and dicotyledonous weeds before harvesting

14. Tukey's studentized range (HSD) test for data14					
Data14=Number of monocotyledonous and dicotyledonous weeds before harvesting					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	43,63889				
Critical value of the studentized range	2,80719				
The difference is minimally significant	2,1855				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	19,014	72	irga		
B	15,306	72	fianna		
Linear models GLM procedure					
14. Tukey's studentized range (HSD) test for data14					
Data14=Number of monocotyledonous and dicotyledonous weeds before harvesting					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					

Alpha		0,05			
Degrees of freedom of error		96			
Mean square error		43,63889			
Critical value of the studentized range		4,3824			
The difference is minimally significant		6,8236			
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	39,5	18	p1	
	B	23,944	18	p2	
	B				
C	B	19,222	18	p3	
C					
C	D	13,278	18	p6	
	D				
	D	11,556	18	p7	
	D				
	D	11,444	18	p5	
	D				
	D	10,833	18	p4	
	D				
	D	7,5	18	p8	
Linear models GLM procedure					
Data14=Number of monocotyledonous and dicotyledonous weeds before harvesting					
Level	Level	N	Data14		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	10,4166667	3,7056557	
2007	irga	24	10,75	4,8297088	
2008	fianna	24	15,7916667	12,4655322	

2008	irga	24	15,25	10,6658741	
2009	fianna	24	19,7083333	17,1476432	
2009	irga	24	31,0416667	26,6775906	
Level	Level	N	Data14		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	18,1666667	4,3550737	
2007	p2	6	9,5	2,5884358	
2007	p3	6	10,6666667	2,5819889	
2007	p4	6	9,1666667	2,228602	
2007	p5	6	12,6666667	3,1411251	
2007	p6	6	9,1666667	2,4013885	
2007	p7	6	8,8333333	3,060501	
2007	p8	6	6,5	2,0736441	
2008	p1	6	39,6666667	5,9553897	
2008	p2	6	16,6666667	2,9439203	
2008	p3	6	5,6666667	3,4448028	
2008	p4	6	2	1,7888544	
2008	p5	6	17,8333333	5,419102	
2008	p6	6	18	2,9664794	
2008	p7	6	15	5,0990195	
2008	p8	6	9,3333333	4,2739521	
2009	p1	6	60,6666667	17,2588142	
2009	p2	6	45,6666667	15,2665211	
2009	p3	6	41,3333333	12,1600439	
2009	p4	6	21,3333333	18,9173642	
2009	p5	6	3,8333333	4,833908	
2009	p6	6	12,6666667	9,8725208	
2009	p7	6	10,8333333	2,1369761	
2009	p8	6	6,6666667	5,8537737	

Level	Level	N	Data14		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	35	15,7241852	
fianna	p2	9	20,5555556	12,6995188	
fianna	p3	9	16,7777778	11,997685	
fianna	p4	9	9	9,7851929	
fianna	p5	9	10	7,2801099	
fianna	p6	9	12,5555556	8,4721767	
fianna	p7	9	10,7777778	4,8933061	
fianna	p8	9	7,7777778	4,867694	
irga	p1	9	44	24,5916653	
irga	p2	9	27,3333333	22,7651049	
irga	p3	9	21,6666667	22,4944438	
irga	p4	9	12,6666667	16,3935963	
irga	p5	9	12,8888889	7,5240356	
irga	p6	9	14	5,1720402	
irga	p7	9	12,3333333	3,8078866	
irga	p8	9	7,2222222	3,929942	
Level	Level	Level	Data14		
Years	Cultivar	Care	N	Mean	Stand. Dev.
2007	fianna	p1	3	15,3333333	4,0414519
2007	fianna	p2	3	8	2,6457513
2007	fianna	p3	3	12,6666667	1,5275252
2007	fianna	p4	3	10,3333333	2,081666
2007	fianna	p5	3	11	3,4641016
2007	fianna	p6	3	10,3333333	3,0550505
2007	fianna	p7	3	9	4,5825757
2007	fianna	p8	3	6,6666667	2,8867513
2007	irga	p1	3	21	2,6457513

2007	irga	p2	3	11	1,7320508
2007	irga	p3	3	8,6666667	1,5275252
2007	irga	p4	3	8	2
2007	irga	p5	3	14,3333333	2,081666
2007	irga	p6	3	8	1
2007	irga	p7	3	8,6666667	1,5275252
2007	irga	p8	3	6,3333333	1,5275252
2008	fianna	p1	3	42,6666667	4,9328829
2008	fianna	p2	3	18,3333333	3,5118846
2008	fianna	p3	3	6	5,1961524
2008	fianna	p4	3	1,3333333	1,5275252
2008	fianna	p5	3	17	5
2008	fianna	p6	3	16,6666667	3,2145503
2008	fianna	p7	3	13,3333333	7,2341781
2008	fianna	p8	3	11	6
2008	irga	p1	3	36,6666667	6,1101009
2008	irga	p2	3	15	1
2008	irga	p3	3	5,3333333	1,5275252
2008	irga	p4	3	2,6666667	2,081666
2008	irga	p5	3	18,6666667	6,8068593
2008	irga	p6	3	19,3333333	2,5166115
2008	irga	p7	3	16,6666667	2,081666
2008	irga	p8	3	7,6666667	1,1547005
2009	fianna	p1	3	47	8
2009	fianna	p2	3	35,3333333	7,3711148
2009	fianna	p3	3	31,6666667	3,7859389
2009	fianna	p4	3	15,3333333	15,011107
2009	fianna	p5	3	2	2
2009	fianna	p6	3	10,6666667	15,1437556

2009	fianna	p7	3	10	2,6457513
2009	fianna	p8	3	5,6666667	5,1316014
2009	irga	p1	3	74,3333333	10,9696551
2009	irga	p2	3	56	14,4222051
2009	irga	p3	3	51	8,660254
2009	irga	p4	3	27,3333333	23,6924742
2009	irga	p5	3	5,6666667	6,6583281
2009	irga	p6	3	14,6666667	1,5275252
2009	irga	p7	3	11,6666667	1,5275252
2009	irga	p8	3	7,6666667	7,5055535

Table S15. Table of variance analysis ANOVA of fresh weeds mass

15. Tukey's studentized range (HSD) test for data 15					
Data15= Fresh weed mass					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	13628,99				
Critical value of the studentized range	3,36669				
The difference is minimally significant	56,73				
Medium with the same letter do not differ significantly					
Grupowanie Tukey	Mean	N	Years		
A	295,31	48	2008		
A					
A	276,67	48	2007		

B	190,31	48	2009		
Linear models GLM procedure					
15. Tukey's studentized range (HSD) test for data15					
Data15 = Fresh weed mass					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	13628,99				
Critical value of the studentized range	2,80719				
The difference is minimally significant	38,622				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	286,74	72	irga		
B	221,46	72	fianna		
Linear models GLM procedure					
15. Tukey's studentized range (HSD) test for data15					
Data15= Fresh weed mass					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	13628,99				
Critical value of the studentized range	4,3824				
The difference is minimally significant	120,59				
Medium with the same letter do not differ significantly					



Grouping Tukey			Mean	N	Care
	A		576,94	18	p1
	B		321,11	18	p2
	B				
C	B		260,56	18	p5
C	B				
C	B	D	231,67	18	p3
C	B	D			
C	B	D	227,5	18	p6
C		D			
C		D	161,11	18	p8
C		D			
C		D	142,5	18	p7
		D			
		D	111,39	18	p4
Linear models GLM procedure					
Data15= Fresh weed mass					
Level	Level	N	Data15		
Years	Cultivar		Mean	Stand. Dev.	
2007	fianna	24	270,208333	135,626398	
2007	irga	24	283,125	138,452727	
2008	fianna	24	279,791667	189,447017	
2008	irga	24	310,833333	277,980554	
2009	fianna	24	114,375	137,345269	
2009	irga	24	266,25	265,039989	
Level	Level	N	Data15		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	514,166667	121,054395	

2007	p2	6	228,333333	70,545494	
2007	p3	6	349,166667	100,767885	
2007	p4	6	196,666667	29,439203	
2007	p5	6	301,666667	84,950966	
2007	p6	6	241,666667	103,569622	
2007	p7	6	157,5	92,07334	
2007	p8	6	224,166667	95,25842	
2008	p1	6	739,166667	272,073826	
2008	p2	6	305	46,368092	
2008	p3	6	125,833333	63,120256	
2008	p4	6	50,833333	25,96472	
2008	p5	6	434,166667	124,555878	
2008	p6	6	330,833333	137,091818	
2008	p7	6	172,5	60,724789	
2008	p8	6	204,166667	92,758647	
2009	p1	6	477,5	304,97131	
2009	p2	6	430	262,373779	
2009	p3	6	220	162,111073	
2009	p4	6	86,666667	86,17811	
2009	p5	6	45,833333	74,324738	
2009	p6	6	110	99,247166	
2009	p7	6	97,5	56,013391	
2009	p8	6	55	65,115282	
Level	Level	N	Data15		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	455	145,580734	
fianna	p2	9	252,222222	76,285283	
fianna	p3	9	215,555556	154,706263	
fianna	p4	9	96,111111	68,773986	

fianna	p5	9	292,222222	225,403958	
fianna	p6	9	212,222222	177,800997	
fianna	p7	9	101,666667	56,844085	
fianna	p8	9	146,666667	111,383347	
irga	p1	9	698,888889	298,347299	
irga	p2	9	390	215,696546	
irga	p3	9	247,777778	140,00248	
irga	p4	9	126,666667	94,934188	
irga	p5	9	228,888889	151,81769	
irga	p6	9	242,777778	104,794773	
irga	p7	9	183,333333	70,311806	
irga	p8	9	175,555556	116,7916	
Level	Poziom	Level	N	Data15	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	465	93,407708
2007	fianna	p2	3	180	13,228757
2007	fianna	p3	3	406,666667	63,70505
2007	fianna	p4	3	180	13,228757
2007	fianna	p5	3	363,333333	12,583057
2007	fianna	p6	3	236,666667	83,26664
2007	fianna	p7	3	80	30
2007	fianna	p8	3	250	107,587174
2007	irga	p1	3	563,333333	143,730071
2007	irga	p2	3	276,666667	72,514366
2007	irga	p3	3	291,666667	106,8098
2007	irga	p4	3	213,333333	34,034296
2007	irga	p5	3	240	80,467385
2007	irga	p6	3	246,666667	140,742081
2007	irga	p7	3	235	47,69696

2007	irga	p8	3	198,333333	95,437589
2008	fianna	p1	3	556,666667	63,50853
2008	fianna	p2	3	300	39,051248
2008	fianna	p3	3	138,333333	85,049005
2008	fianna	p4	3	58,333333	18,929694
2008	fianna	p5	3	496,666667	136,59551
2008	fianna	p6	3	366,666667	183,325757
2008	fianna	p7	3	163,333333	53,463383
2008	fianna	p8	3	158,333333	30,550505
2008	irga	p1	3	921,666667	284,795248
2008	irga	p2	3	310	61,441029
2008	irga	p3	3	113,333333	47,521925
2008	irga	p4	3	43,333333	34,034296
2008	irga	p5	3	371,666667	91,696965
2008	irga	p6	3	295	97,596106
2008	irga	p7	3	181,666667	78,155827
2008	irga	p8	3	250	119,478031
2009	fianna	p1	3	343,333333	194,057552
2009	fianna	p2	3	276,666667	97,125349
2009	fianna	p3	3	101,666667	35,472994
2009	fianna	p4	3	50	50
2009	fianna	p5	3	16,666667	15,275252
2009	fianna	p6	3	33,333333	35,118846
2009	fianna	p7	3	61,666667	18,929694
2009	fianna	p8	3	31,666667	32,532035
2009	irga	p1	3	611,666667	375,310982
2009	irga	p2	3	583,333333	303,534732
2009	irga	p3	3	338,333333	149,777613
2009	irga	p4	3	123,333333	109,696551

2009	irga	p5	3	75	105
2009	irga	p6	3	186,666667	75,883683
2009	irga	p7	3	133,333333	60,277138
2009	irga	p8	3	78,333333	88,92881

Table S16. Table of variance analysis ANOVA of dry weed mass

16. Tukey's studentized range (HSD) test for data16					
Data16=Dry weed mass					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	2380,845				
Critical value of the studentized range	3,36669				
The difference is minimally significant	23,711				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Years		
A	132,256	48	2008		
A					
A	114,063	48	2007		
B	62,167	48	2009		
Linear models GLM procedure					
16. Tukey's studentized range (HSD) test for data16					
Data16=Dry weed mass					

Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	2380,845				
Critical value of the studentized range	2,80719				
The difference is minimally significant	16,143				
Medium with the same letter do not differ significantly					
Grouping Tukey	Mean	N	Cultivar		
A	116,963	72	irga		
B	88,694	72	fianna		
Linear models GLM procedure					
16. Tukey's studentized range (HSD) test for data16					
Data16=Dry weed mass					
Note: This test checks the Type I error of the experimental group, but generally has a higher Type II error than REGWQ.					
Alpha	0,05				
Degrees of freedom of error	96				
Mean square error	2380,845				
Critical value of the studentized range	4,3824				
The difference is minimally significant	50,401				
Medium with the same letter do not differ significantly					
Grouping Tukey		Mean	N	Care	
	A	236,75	18	p1	
	B	142,75	18	p2	
	B				

C	B	94,5	18	p6	
C					
C		90,11	18	p5	
C					
C		76,67	18	p3	
C					
C		63,14	18	p7	
C					
C		62,86	18	p8	
C					
C		55,85	18	p4	
Linear models GLM procedure					
Data16=Dry weed mass					
Level	Level	N	Data16		
Years	Cultivar		Średnia	Stand. Dev.	
2007	fianna	24	102,708333	55,462074	
2007	irga	24	125,416667	44,279661	
2008	fianna	24	122,333333	82,595224	
2008	irga	24	142,179167	118,579659	
2009	fianna	24	41,041667	66,373436	
2009	irga	24	83,291667	92,854364	
Level	Level	N	Data16		
Years	Care		Mean	Stand. Dev.	
2007	p1	6	182,5	46,98404	
2007	p2	6	145	37,013511	
2007	p3	6	114,166667	41,643327	
2007	p4	6	111,666667	31,570028	
2007	p5	6	98,333333	36,423436	
2007	p6	6	117,5	39,717754	

2007	p7	6	74,166667	41,523086	
2007	p8	6	69,166667	45,322915	
2008	p1	6	344,166667	91,837719	
2008	p2	6	146,333333	35,522763	
2008	p3	6	55,166667	14,593377	
2008	p4	6	28,383333	16,878438	
2008	p5	6	161	30,958036	
2008	p6	6	132,166667	53,458083	
2008	p7	6	85,833333	44,436096	
2008	p8	6	105	48,476799	
2009	p1	6	183,583333	128,755744	
2009	p2	6	136,916667	91,334778	
2009	p3	6	60,666667	44,301994	
2009	p4	6	27,5	29,790938	
2009	p5	6	11	24,027068	
2009	p6	6	33,833333	34,030379	
2009	p7	6	29,416667	18,467313	
2009	p8	6	14,416667	19,873139	
Level	Level	N	Data16		
Cultivar	Care		Mean	Stand. Dev.	
fianna	p1	9	201,277778	94,268603	
fianna	p2	9	134,166667	42,244822	
fianna	p3	9	57	28,827071	
fianna	p4	9	56,777778	56,001736	
fianna	p5	9	79,666667	71,830095	
fianna	p6	9	95,222222	75,999223	
fianna	p7	9	43,222222	36,144771	
fianna	p8	9	42,222222	35,79465	
irga	p1	9	272,222222	135,187627	



irga	p2	9	151,333333	70,33669	
irga	p3	9	96,333333	48,329598	
irga	p4	9	54,922222	41,506077	
irga	p5	9	100,555556	69,982339	
irga	p6	9	93,777778	44,0448	
irga	p7	9	83,055556	40,697393	
irga	p8	9	83,5	62,301685	
Level	Level	Level	N	Data16	
Years	Cultivar	Care		Mean	Stand. Dev.
2007	fianna	p1	3	171,666667	54,848276
2007	fianna	p2	3	158,333333	11,547005
2007	fianna	p3	3	88,333333	15,275252
2007	fianna	p4	3	123,333333	44,814432
2007	fianna	p5	3	80	30
2007	fianna	p6	3	123,333333	42,524503
2007	fianna	p7	3	40	20
2007	fianna	p8	3	36,666667	17,559423
2007	irga	p1	3	193,333333	46,457866
2007	irga	p2	3	131,666667	52,519838
2007	irga	p3	3	140	45,825757
2007	irga	p4	3	100	8,660254
2007	irga	p5	3	116,666667	37,527767
2007	irga	p6	3	111,666667	45,092498
2007	irga	p7	3	108,333333	20,207259
2007	irga	p8	3	101,666667	40,722639
2008	fianna	p1	3	281,666667	33,291641
2008	fianna	p2	3	145,333333	37,287174
2008	fianna	p3	3	56	15,099669
2008	fianna	p4	3	32	5,291503

2008	fianna	p5	3	157,666667	37,501111
2008	fianna	p6	3	150	70
2008	fianna	p7	3	72,666667	49,409851
2008	fianna	p8	3	83,333333	15,275252
2008	irga	p1	3	406,666667	90,875373
2008	irga	p2	3	147,333333	41,968242
2008	irga	p3	3	54,333333	17,387735
2008	irga	p4	3	24,766667	25,396128
2008	irga	p5	3	164,333333	30,92464
2008	irga	p6	3	114,333333	35,92121
2008	irga	p7	3	99	44,440972
2008	irga	p8	3	126,666667	65,064071
2009	fianna	p1	3	150,5	128,659434
2009	fianna	p2	3	98,833333	51,759862
2009	fianna	p3	3	26,666667	2,886751
2009	fianna	p4	3	15	18,027756
2009	fianna	p5	3	1,333333	1,258306
2009	fianna	p6	3	12,333333	20,076935
2009	fianna	p7	3	17	6,082763
2009	fianna	p8	3	6,666667	10,275375
2009	irga	p1	3	216,666667	146,997732
2009	irga	p2	3	175	117,57976
2009	irga	p3	3	94,666667	37,819748
2009	irga	p4	3	40	37,749172
2009	irga	p5	3	20,666667	34,078341
2009	irga	p6	3	55,333333	33,246554
2009	irga	p7	3	41,833333	18,790512
2009	irga	p8	3	22,166667	26,487418