

Ajustement de manova**Spécification de la réponse**

Construire les combinaisons linéaires entre les réponses

☐ Tests univariés également☐ Tester également chaque colonne séparément

Nombre d'observations 200

Degrés de liberté de l'erreur 81

Estimations des coefficients

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)
Constante	38,0383036	83,6651032	100,882012	123,789611	138,52
Bloc[B1]	0,65447421	-6,6906587	0,08479365	4,13594444	-1,16
Bloc[B2]	-1,1455258	-1,9608968	4,73030952	-3,0335794	8,1253
Bloc[B3]	-6,8806647	-10,941075	-10,236179	-5,6594722	-7,777
Bloc[B4]	-11,473304	-0,0020675	-9,1345119	1,73719444	-3,594
Bloc[B5]	-2,0483036	4,55045238	3,25465476	-0,0223889	6,1571
Bloc[B6]	6,56919643	5,85198016	11,066877	12,1315	2,1007
Bloc[B7]	10,4596131	5,93878571	3,77187698	5,56181746	5,1139
Bloc[B8]	5,79056548	3,44174206	3,86620238	-7,3936984	-6,594
Bloc[B9]	-5,0333036	-7,3798254	-14,145345	-14,390167	-8,746
Trt[B]	1,70319246	-6,6252302	-8,4246825	-8,3852778	-10,56
Strain[All]	-1,3155258	31,0400357	22,8679881	27,7934444	33,827
Strain[Esp]	1,29614087	-6,5053413	-7,3967143	-9,1560595	-3,843
Strain[Fra]	-10,571498	-16,153179	-21,46729	-20,524373	-20,69
Strain[Gre]	-2,9696925	-9,2873254	-6,4275675	-6,1548889	-9,675
Strain[Inv1]	11,762252	9,11378571	8,46854365	4,51191667	-0,061
Strain[Inv2]	-17,797331	-28,264687	-23,41229	-25,315683	-30,43
Strain[Ita1]	-0,7565179	2,06906349	7,43521032	5,97691667	3,4271
Strain[Ita2]	11,7216964	12,9086468	13,4304881	12,8478889	17,930
Strain[Tur]	9,75608135	16,2624365	17,706877	23,5404286	21,727
Bloc[B1]*Trt[B]	4,67958532	3,5696746	7,02482143	9,80194444	6,6868
Bloc[B2]*Trt[B]	5,64958532	5,65943651	4,66700397	3,70130952	4,4073
Bloc[B3]*Trt[B]	5,92333532	3,86370238	-1,3372619	1,21652778	-0,540
Bloc[B4]*Trt[B]	-3,3459702	-11,08729	-5,6289286	-2,9645833	-6,907
Bloc[B5]*Trt[B]	8,42680754	14,7896746	13,2446825	11,1836111	7,6658
Bloc[B6]*Trt[B]	-5,4756925	-4,0076865	-7,0264286	-8,4036111	-6,447
Bloc[B7]*Trt[B]	-1,3508313	-0,3319921	2,24857143	2,31003968	9,11
Bloc[B8]*Trt[B]	-2,9965456	-4,0979246	-2,9915476	-6,7699206	-1,462
Bloc[B9]*Trt[B]	-13,912637	-6,6317143	-8,2144841	-9,6508333	-14,86
Bloc[B1]*Strain[All]	12,2671925	9,10774206	15,8985397	34,5143333	24,371
Bloc[B1]*Strain[Esp]	-33,838919	-5,3691032	15,502131	3,1638373	-11,71
Bloc[B1]*Strain[Fra]	2,62872024	-0,9712659	-1,2995159	7,19881746	-6,305
Bloc[B1]*Strain[Gre]	-1,3230853	-0,537119	-20,439238	-12,720667	-10,27
Bloc[B1]*Strain[Inv1]	27,4949702	26,2617698	28,7646508	23,3125278	31,260
Bloc[B1]*Strain[Inv2]	4,29344246	6,69024206	3,35798413	13,290127	12,275
Bloc[B1]*Strain[Ita1]	1,46374008	-26,043508	-13,718683	-48,858028	-43,75
Bloc[B1]*Strain[Ita2]	-15,464474	-1,2330913	-4,6472937	-12,373444	6,51

th, 5)	Moyenne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11)
0597	149,051716	164,706446	192,306038	219,572869	264,193544	290,5
9625	-0,8485218	-1,9349187	-4,1010377	-16,539536	-15,517016	-2,38
5516	3,69383929	2,1190496	-6,0930417	-10,613127	-9,4606071	-11,7
3234	-4,619256	-9,7319821	-15,592784	-6,7775714	-12,777234	-9,78
9028	-7,6399107	-7,520752	-5,9124266	-9,4253492	-8,3878095	-11,5
8056	-1,3183829	0,45035913	-1,5413155	15,9156032	14,6116944	12,30
9167	-2,2353274	9,18147024	20,5782679	22,9847698	7,38895635	-1,9
8611	9,54911706	20,0728591	22,9070972	14,7459008	15,4711786	3,394
2282	8,25925595	-2,4778353	-5,3922282	-7,6968968	4,00002778	4,546
5694	-6,476756	-10,003788	-1,8840933	-4,9262024	-3,3040794	-0,99
1403	-10,057978	-11,024942	-16,197907	-18,209992	-22,276238	-24,0
4583	29,1059226	32,130498	22,658129	8,61226984	-3,5951905	3,413
6726	1,0212004	-3,5283909	1,62437897	-4,1141984	5,09437302	4,85
5915	-22,432113	-19,954462	-23,601355	-21,651202	-32,190448	-39,5
5972	-8,7196329	-4,9672798	1,63852579	13,8209603	20,681	20,61
0139	-1,0184028	0,56008135	9,10350595	14,8014365	11,6976071	19,41
9129	-34,670784	-29,840454	-25,319946	-21,600131	-24,978623	-24,1
8056	1,41381944	0,8662123	-4,8953631	-5,6231667	-5,0800516	0,327
6528	20,0332837	16,7423036	12,449875	9,62010714	25,6627857	26,48
5972	22,919871	18,4681567	22,1071369	19,4453849	28,6192143	27,95
1944	4,20672817	2,61869246	2,83624008	7,45999206	9,55387698	9,219
5516	7,01353373	10,225994	13,0809028	11,7419563	5,47584127	-3,91
3234	-0,2395615	3,81440675	1,78782738	-4,7416548	-8,9902302	-5,68
3472	-9,0202163	-4,9315853	3,43818452	5,60306746	4,70197222	0,838
4722	14,3513115	13,751748	14,3715179	10,5837421	14,8856032	19,3
2083	-5,7856329	-7,4071409	-14,877788	-12,952369	-14,966262	-14,3
4875	7,49325595	4,71869246	5,424375	5,48487302	7,56596032	8,027
2282	-8,122994	-6,1603353	-9,6538393	-2,3693135	-1,9921349	9,301
9569	-12,172062	-18,207399	-10,312927	-16,501119	-21,497075	-26,6
5694	21,1186607	50,0146409	38,0924266	52,4877302	44,2297738	43,49
2855	-2,4577282	8,79575198	3,95950992	4,48086508	-6,5542341	-9,86
0575	0,27891865	-16,267065	-16,703645	-18,632131	-12,536079	-21,0
5375	-15,183562	-20,504248	-10,643526	-23,554294	-2,7241944	-13,2
0417	21,5152083	22,2183909	48,6442718	45,5763413	29,877254	28,72
6567	14,8550893	25,9564266	14,4399464	-1,1832024	-8,2854048	-8,12
0375	-39,122569	-40,532185	-46,759637	-62,471278	-78,102032	-47,9
8375	6,81352183	-4,9138313	-6,4993194	-6,5034405	43,2162421	73,81

th, 11)	Moyenne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
23774	327,858099	353,547276	375,722627
72063	-4,3696071	1,87937103	-6,6759008
43893	1,03263492	7,8703631	2,08838492
01825	-14,74302	-16,953347	-26,532667
83873	-6,8865913	-5,8828313	7,90598413
59286	1,87771429	13,2406012	11,4958651
42246	6,69578968	6,17897421	6,16181746
28175	8,76529365	0,96643452	-0,0385794
64286	-7,3037937	-7,7764425	-22,661794
86746	4,31229762	-4,5063829	7,66689683
31837	-26,527901	-25,256113	-26,976353
44841	2,35940079	3,89855754	-2,0556825
23373	-0,974627	-2,3408274	6,95201587
61631	-47,259766	-42,226879	-48,911317
99167	26,3448373	20,1293115	26,6971944
30119	17,246504	19,2232798	11,6959643
85877	-22,233298	-36,588625	-30,968698
31746	0,86815079	5,36224802	5,87570635
14444	30,2925159	33,7381806	31,8327897
70992	27,6412262	38,4295099	33,5073333
79365	10,6888929	11,8810933	20,9433571
60595	4,59530159	12,9259742	11,3495873
87381	-2,365631	7,43504167	1,3099246
40476	-3,0761468	-8,4083313	1,16274206
14873	17,5559365	15,3984345	11,9704008
64135	-6,6282103	-10,622637	-6,0617024
11508	8,13546032	-0,1604544	1,61206746
97619	4,49192857	2,97694643	-0,4944802
51397	-35,292813	-42,877994	-52,722456
44286	34,5798849	48,0692401	51,2145119
66825	-3,402754	-22,830264	-7,1487421
24937	-26,478726	-1,1497679	-14,535409
34262	-30,14444	-36,367069	-40,666143
95873	29,752504	4,21257341	11,0305238
84683	10,2198056	23,2619782	10,1886389
40671	-56,887	-52,131752	-54,086718
05595	89.9856587	72.368506	63.4038175

Ajustement de manova**Estimations des coefficients**

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)
Bloc[B1]*Strain[Tur]	11,6066964	3,68534127	-5,8403492	-9,104873	3,5825
Bloc[B2]*Strain[All]	-18,710585	22,1446468	32,7308016	25,3560794	25,721
Bloc[B2]*Strain[Esp]	14,8110813	-2,4988651	-6,6156071	-2,5499722	-16,7
Bloc[B2]*Strain[Fra]	-6,3212798	10,8989722	9,15496825	4,91834127	3,549
Bloc[B2]*Strain[Gre]	1,12691468	1,18311905	4,01524603	8,24885714	11,779
Bloc[B2]*Strain[Inv1]	-22,60503	-28,467992	-29,480865	-26,056837	-27,0
Bloc[B2]*Strain[Inv2]	23,9045536	7,58825794	4,02219048	3,30965079	1,3556
Bloc[B2]*Strain[Ita1]	-9,3251488	-6,5121587	-23,430865	-24,960726	-24,
Bloc[B2]*Strain[Ita2]	-5,2144742	-8,1628532	4,74469048	15,6460794	27,760
Bloc[B2]*Strain[Tur]	16,1297123	19,9476429	24,4308016	25,3678254	36,526
Bloc[B3]*Strain[All]	-0,4421131	-5,6140635	4,33062302	2,57086111	3,8459
Bloc[B3]*Strain[Esp]	3,12677579	0,20909127	6,72726984	-13,129635	-8,749
Bloc[B3]*Strain[Fra]	-4,3361409	-8,0708492	-2,9285437	2,59423413	0,7526
Bloc[B3]*Strain[Gre]	-20,587946	-7,9867024	5,03173413	13,27475	7,8823
Bloc[B3]*Strain[Inv1]	-8,3643353	4,56218651	2,98562302	9,38294444	-8,332
Bloc[B3]*Strain[Inv2]	9,91747024	3,74065873	-2,5960437	-16,014456	5,3744
Bloc[B3]*Strain[Ita1]	7,61137897	7,01940873	10,6689563	5,58044444	-3,032
Bloc[B3]*Strain[Ita2]	25,2206647	34,1173254	11,4736786	35,2219722	21,876
Bloc[B3]*Strain[Tur]	-18,91372	-32,836464	-44,00271	-38,070567	-41,07
Bloc[B4]*Strain[All]	-28,266141	-7,7752937	-11,18771	-14,531361	-20,30
Bloc[B4]*Strain[Esp]	15,7610813	5,82008333	-4,5896746	10,641754	18,217
Bloc[B4]*Strain[Fra]	19,256498	-8,567	-11,219099	-18,169099	-7,15
Bloc[B4]*Strain[Gre]	-41,934196	-41,186821	-28,886599	-41,316361	-33,98
Bloc[B4]*Strain[Inv1]	-9,777252	-8,6268214	5,88395635	2,51127778	11,385
Bloc[B4]*Strain[Inv2]	18,4837202	15,3669286	22,3953452	25,0472103	26,660
Bloc[B4]*Strain[Ita1]	-12,208482	19,1179008	9,91728968	6,84627778	9,34
Bloc[B4]*Strain[Ita2]	17,0133036	6,62831746	10,8220119	31,4753056	8,7436
Bloc[B4]*Strain[Tur]	11,1164187	18,3745278	1,19562302	6,25776587	5,1342
Bloc[B5]*Strain[All]	2,02552579	13,1444087	-26,704655	-16,510667	-9,355
Bloc[B5]*Strain[Esp]	3,97497024	-6,6046587	-5,2732857	-2,544496	-2,445
Bloc[B5]*Strain[Fra]	2,28149802	8,33762302	12,130623	11,0071508	19,218
Bloc[B5]*Strain[Gre]	19,7796925	10,7106587	13,3520119	17,8543333	-3,39
Bloc[B5]*Strain[Inv1]	5,29774802	15,9206587	-4,4274325	-9,3958056	-11,87
Bloc[B5]*Strain[Inv2]	-0,9426687	-1,200869	0,42562302	-0,8015397	-9,588
Bloc[B5]*Strain[Ita1]	-9,3334821	-5,6901746	11,0059008	20,7780833	32,972
Bloc[B5]*Strain[Ita2]	-12,211696	-4,9242024	3,78284524	-19,515111	1,8415
Bloc[B5]*Strain[Tur]	-19,807192	-29,761325	-19,96021	-14,535429	-29,02
Bloc[B6]*Strain[All]	-23,369752	-32,76823	-12,45021	-10,803444	-11,91
Bloc[B6]*Strain[Esp]	-5,6036409	-0,8617421	-24,752175	-27,915052	-26,67
Bloc[B6]*Strain[Fra]	-8,836002	-0,1139048	-10,581599	-10,896738	-0,925
Bloc[B6]*Strain[Gre]	7,70108135	-2,2353135	-9,4102103	-14,299556	-16,32
Bloc[B6]*Strain[Inv1]	21,1413591	10,3469087	24,6714563	26,3169722	28,48
Bloc[B6]*Strain[Inv2]	-2,3101687	23,3476032	30,8634008	26,9945714	32,067
Bloc[B6]*Strain[Ita1]	13,6490179	8,20274206	6,72145635	8,54086111	7,1903

th, 5)	Moyenne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11)
4167	-3,278621	-13,500796	-9,0954702	-3,0509405	9,76675794	-3,93
0337	48,3596329	41,0051171	49,3122083	41,716877	33,862254	52,46
5228	-29,366756	-40,747105	-29,731819	-33,706655	-37,938421	-22,6
9623	-4,8634425	-1,2210337	-3,8116409	-13,00854	8,0075119	1,
6448	2,02407738	-17,108216	-18,751522	-14,030702	3,33606349	13,07
9605	-21,860486	-12,785577	-16,379002	-30,411179	-32,530544	-28,3
7659	10,5502282	18,7871806	30,7194504	47,8917778	60,1290198	57,23
1898	-19,831597	-29,436153	-26,317633	-16,425464	-17,902885	-21,4
8948	21,1461607	29,2697004	15,299629	22,1701508	12,5042778	-19,5
4504	39,956002	38,1134901	38,0727242	28,344873	39,0692778	25,2
3452	2,95050595	2,7450377	16,9230615	-4,2797897	-9,1100079	-14,3
6012	-12,116161	-26,546073	-19,187633	5,85282937	20,1809841	19,24
4087	-7,3003472	1,77999802	-5,3118988	-9,7440952	-8,1258611	-22,
2341	-4,1128274	0,24281548	33,2148869	34,372631	37,7749127	45,28
2599	-2,4015575	-21,147046	-3,4810456	-24,013401	-33,813917	-28,1
2659	3,2240377	-2,2768671	-10,15045	-20,059452	-16,966258	-18,8
9544	-6,3462798	1,90932341	-15,225034	9,97786905	-4,5362579	-27,2
0734	28,084256	37,7332321	28,486871	29,5679286	38,3375714	42,30
0871	-21,902331	-14,342621	-46,120391	-45,390683	-46,385524	-39,5
8708	-26,562173	-21,210637	-35,557296	-50,35979	-58,843877	-65,
9782	20,879494	16,9051964	50,7861766	44,0000119	41,7373929	18,86
2002	2,28697421	-7,2090099	-23,875589	-19,596317	-11,448619	-10,3
8986	-38,11995	-35,935081	-57,526581	-59,335147	-53,614512	-40,1
3194	5,45659722	3,85422421	12,6028829	10,2510437	21,2466587	47,84
6567	21,6423115	11,2325377	18,3443909	20,2317778	14,5423333	15,80
7125	15,174375	19,3703155	23,1295298	46,4613611	20,3671746	29,77
5278	10,6049107	-8,827998	14,8565139	7,53237302	16,4814802	13,32
0833	8,13499008	17,7294821	13,7436964	15,000746	16,5020357	3,863
2361	-14,689256	-19,587304	-16,872851	-20,650742	-24,610048	-22,2
2163	-5,5100893	-5,661748	-1,6335456	-7,9520516	-19,432944	-33,
1369	14,6487798	20,9976567	22,2866329	23,4127302	32,8852103	39,53
6625	12,1362996	29,0729742	24,421752	39,2905675	23,0923333	25,44
7875	-20,248264	-19,25022	-34,846006	-47,760742	-49,456813	-54,4
6488	-3,4125496	-17,766351	-8,2447758	-13,516119	2,12338492	-7,72
8194	33,9861806	30,2769821	13,9306409	18,5458056	21,0748135	40,58
6944	5,93338294	-11,399109	-13,614597	-8,3085794	5,68197619	-11,1
2042	-32,214315	-18,519407	-1,8218591	5,28280952	-18,65223	-9,73
5514	17,8901885	5,60658532	-11,217435	-10,757409	2,85019048	-10,0
7716	-23,437589	-15,859526	-26,958685	-9,7934405	-12,726873	-13,9
4742	-7,0342758	-17,733454	-15,18295	4,99356349	-8,6920516	16,98
9125	-11,8412	-23,120637	-15,417276	-53,38971	-43,835722	-49,0
9625	19,1186806	6,32977976	-7,1600337	21,3798135	21,0921151	32,25
7401	17,9543948	51,6025377	42,4356409	51,2591587	66,1294563	73,98
1944	7,76423611	5,50698214	22,3110575	14,9544167	19,9475516	9,352

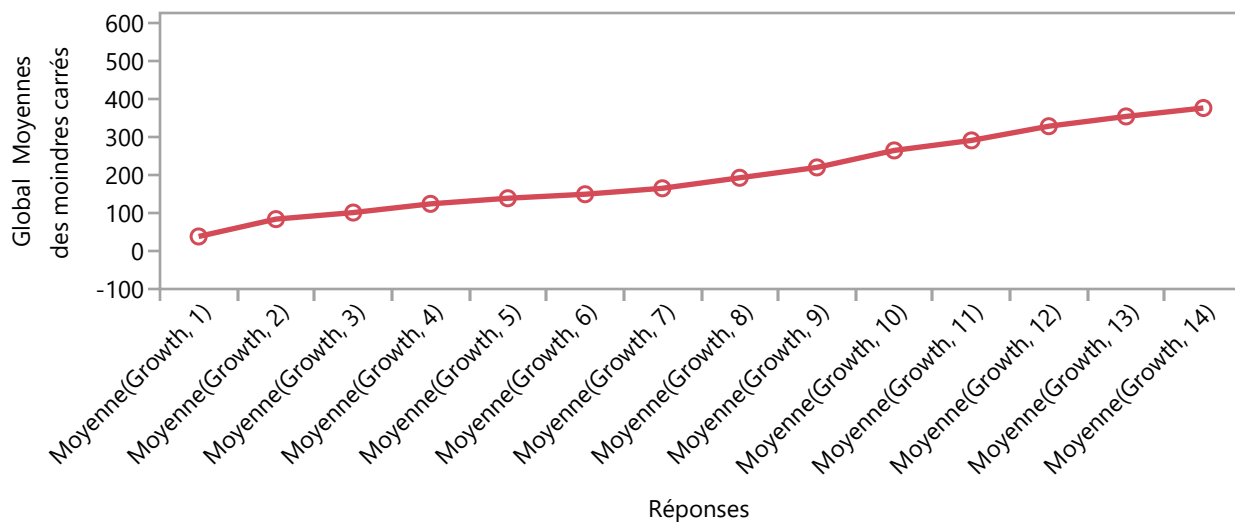
th, 11)	Moyenne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
11667	-5,5547183	22,8795575	10,7959405
77817	30,8248651	36,9213036	53,5196706
76663	-28,221663	-53,814312	-58,588028
98175	13,6690317	4,49257341	28,6169722
24246	0,56998413	-6,5191726	-19,09154
92893	-36,703905	8,30908135	-16,056976
37738	40,9272857	42,0195972	41,5201865
32198	-19,730313	-10,751315	-25,429575
11325	9,73817857	25,9584663	23,977627
55877	45,6466111	64,7195179	89,0316548
18151	-7,5578135	-2,5924861	-9,9176111
15714	-13,302952	-27,498935	-45,241976
43196	-6,2553135	-16,11705	3,42135714
09365	58,5956389	56,6100933	60,5017341
06603	-33,561583	-64,817208	-45,085925
64857	-31,15321	-22,991018	-44,964119
04242	-36,649897	-22,006177	-51,882333
27421	36,0090714	64,4803909	69,8433214
22913	-15,593806	-34,548438	-35,159794
26446	-44,914242	-69,751891	-44,372929
60952	38,9947857	64,7097163	53,556873
72714	-3,0284087	-2,1708988	-0,9728492
98706	-41,46079	-54,865978	-58,088306
70873	31,520877	25,8178313	23,9004246
29206	30,3812341	23,6408472	-2,7249921
56389	36,924627	43,3661647	48,6028254
86548	-13,164024	-17,952625	-1,8058452
31746	-8,717496	19,3965218	11,2831032
43151	-41,545214	-42,786435	-50,31281
04454	-25,923687	1,52437897	0,48663492
19286	52,6739524	51,839002	57,9928254
32381	10,4622063	-25,852903	-26,715687
70492	-53,543429	-15,905601	-29,614456
71587	-13,152516	-10,761752	-23,549794
74246	46,2960357	33,3720972	53,7613571
61147	1,92167063	-28,314946	-15,206837
68016	8,78407143	0,72150198	-9,2869365
94976	-27,88829	-8,6623075	-29,178762
83865	-31,129262	-26,635423	-22,93646
01032	-9,094123	-3,699371	-6,073127
18111	-66,465393	-77,99445	-60,906639
54603	89,5162738	86,9838036	81,4195913
76825	87,9294087	78,049875	60,434254
26587	1,11684921	-0,7329425	-8,7657063

Ajustement de manova**Estimations des coefficients**

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)
Bloc[B6]*Strain[Ita2]	11,3458036	-3,8382302	-3,329377	-6,719	-10,97
Bloc[B6]*Strain[Tur]	-4,5635813	-4,8795198	-2,8557659	-5,9115397	-17,79
Bloc[B7]*Strain[All]	23,9676091	20,6060754	-1,321877	-4,694873	10,837
Bloc[B7]*Strain[Esp]	-3,1607242	-18,131881	-4,2280079	-8,0064802	1,5438
Bloc[B7]*Strain[Fra]	12,5069147	30,1770675	38,9967341	37,5785	26,689
Bloc[B7]*Strain[Gre]	14,7717758	14,027881	25,5625675	22,9590159	19,124
Bloc[B7]*Strain[Inv1]	-6,0101687	-12,467675	-19,972433	-34,263345	-24,72
Bloc[B7]*Strain[Inv2]	-22,363085	-24,714202	-27,604099	-17,52146	-27,54
Bloc[B7]*Strain[Ita1]	8,67110119	13,6145476	14,1234008	15,7591548	15,413
Bloc[B7]*Strain[Ita2]	6,9428869	1,72496429	1,05312302	7,41318254	5,1597
Bloc[B7]*Strain[Tur]	-16,103998	-9,8663254	-7,0607659	-4,1418571	-3,762
Bloc[B8]*Strain[All]	35,9477679	4,87673016	12,9004643	9,56342063	10,915
Bloc[B8]*Strain[Esp]	8,25554563	33,4516706	29,5111984	30,416496	29,065
Bloc[B8]*Strain[Fra]	-5,657371	-19,153667	-25,880925	-29,72154	-25,43
Bloc[B8]*Strain[Gre]	-8,5341766	2,14298016	-0,8456468	3,64647619	-6,313
Bloc[B8]*Strain[Inv1]	-8,441121	-1,220631	1,58324206	22,1921706	22,584
Bloc[B8]*Strain[Inv2]	-3,714871	-16,881048	-8,1414802	-11,413563	-15,74
Bloc[B8]*Strain[Ita1]	9,12050595	-1,3259087	3,2165754	4,67717063	13,446
Bloc[B8]*Strain[Ita2]	-20,038065	-35,052992	-28,428702	-39,631302	-38,63
Bloc[B8]*Strain[Tur]	-23,08495	-4,3192817	-8,1050913	-9,0863413	-9,303
Bloc[B9]*Strain[All]	-47,339474	-58,525313	-63,654655	-81,042889	-92,40
Bloc[B9]*Strain[Esp]	-6,4511409	-1,5132698	3,23921429	21,9066151	28,294
Bloc[B9]*Strain[Fra]	5,28872024	12,8290119	12,5084008	13,0527063	19,677
Bloc[B9]*Strain[Gre]	43,1146925	30,8631587	28,1909008	26,7332222	37,584
Bloc[B9]*Strain[Inv1]	-9,9894742	-26,260175	-29,171877	-34,748861	-37,05
Bloc[B9]*Strain[Inv2]	-9,4576687	-4,1205913	-9,274377	-2,2337619	-9,934
Bloc[B9]*Strain[Ita1]	-9,5484821	-3,2793413	-7,634377	-0,7388611	-2,726
Bloc[B9]*Strain[Ita2]	-10,976696	9,0560754	10,9828452	5,15266667	-0,754
Bloc[B9]*Strain[Tur]	42,2889187	30,7022857	43,3453452	42,860127	42,942
Trt[B]*Strain[All]	-3,3415258	-0,2818532	-3,9886508	-4,3372222	-5,879
Trt[B]*Strain[Esp]	5,79014087	6,9583254	11,1452579	9,86660714	8,1627
Trt[B]*Strain[Fra]	1,86250198	2,10715476	2,61718254	1,61607143	-2,661
Trt[B]*Strain[Gre]	-2,5645813	-7,6369921	-8,010873	-8,95	-5,473
Trt[B]*Strain[Inv1]	1,9573631	-4,045881	1,2052381	3,25680556	7,8809
Trt[B]*Strain[Inv2]	1,06000198	3,88009127	3,09329365	1,83253968	0,6884
Trt[B]*Strain[Ita1]	2,78859325	-0,3706032	-0,3825397	2,98847222	2,2269
Trt[B]*Strain[Ita2]	-3,5831925	1,49898016	5,85718254	-0,0272222	-0,987
Trt[B]*Strain[Tur]	-5,2988075	-3,626119	-11,22754	-11,509127	-10,59

th, 5)	Moyenne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11)
7042	-7,5371726	4,55727976	16,3283194	-4,702746	-24,957786	-27,6
8986	-20,28626	-19,606073	3,55855754	6,59697619	-15,001714	-30,2
9583	-16,156756	-19,709804	-22,615708	-4,5921508	6,70269048	-5,2
1151	-11,544256	1,30602976	0,33748611	-25,467071	-33,646595	-35,5
1091	52,6257242	83,1362679	73,1826647	78,7935437	69,7646151	74,60
3472	32,3910218	48,2435298	21,0261171	12,9977698	2,74177778	14,68
3569	-17,282431	-1,2893869	-17,916641	-18,031317	-12,384552	-35,
5454	-21,53005	-42,805518	-22,643188	-9,3019722	-27,952766	-42,1
2361	6,52284722	1,60448214	22,4322282	-1,0384603	34,431996	37,3
6389	6,25338294	-14,946609	-21,61301	-1,088877	-34,602508	-4
1806	-24,670704	-34,397462	-29,220272	-27,964155	-7,6339365	3,324
6171	-0,7196726	9,43533532	14,8058393	16,7506468	7,71987302	16,44
7163	34,721994	46,9581131	32,5784782	18,7757262	118,349556	144,5
0454	-29,728859	-43,724149	-40,373565	-37,502548	-53,847567	-59,1
2718	9,50866071	4,35116865	6,59052183	61,1816389	1,2587619	-31,1
6448	21,7074306	21,8113075	15,4993512	16,4948135	26,0213214	38,52
8351	-5,7624107	-12,443712	-24,593863	-40,420286	-57,231615	-58,7
4504	5,57520833	20,0551766	37,0315536	20,5471944	31,7642579	25,52
2022	-42,219256	-28,383415	-31,185113	-48,174651	-45,827786	-41,0
9663	-4,8308433	-22,646768	-39,120946	-35,521357	-55,412786	-58,9
1486	-90,380883	-94,383157	-84,480073	-73,958937	-58,333163	-73,2
6448	31,0788393	13,9007321	6,72867659	22,5675317	-22,608837	-33,2
4425	2,28493056	4,87402579	38,8905218	15,137869	26,2065397	21,47
9028	34,178006	32,1423988	28,7450853	22,2934841	56,5366786	71,09
0514	-27,835923	-18,629407	-22,447673	-22,703659	-42,842627	-57,0
8988	-19,154177	-16,112204	-32,201998	-30,396536	-50,060841	-33,3
2083	3,30407738	-1,8617282	-15,46547	1,59316667	21,7794762	30,45
6806	-8,608244	2,5550377	2,42818056	9,33322619	0,94775	-1,00
8194	45,3496131	56,673629	55,8764742	43,8690595	62,7413214	61,55
4306	-3,1988274	3,94299802	-1,8345933	-2,8337579	-1,8281865	-2,4
7183	8,39283929	10,5091091	12,3899901	13,986996	14,7160992	14,98
6925	-6,6279742	-11,334185	-5,5251885	-1,3850079	-8,1462222	-7,54
5972	-4,0099385	-4,5658909	-8,9508631	-8,5239563	-12,39144	-11,9
8611	6,57129167	4,05147024	-3,8203274	-8,4970913	-1,8984841	-0,07
2659	-1,117756	-4,0190655	-0,1171131	-7,148381	-2,3410635	2,09
5833	-0,0820417	5,62315675	9,74080357	11,2563611	6,66084127	8,30
3472	-1,4070218	0,78369246	-0,7361806	1,35630159	0,90923413	-6,46
4847	-7,8471012	-13,512677	-11,186696	-12,206198	-12,602115	-12,8

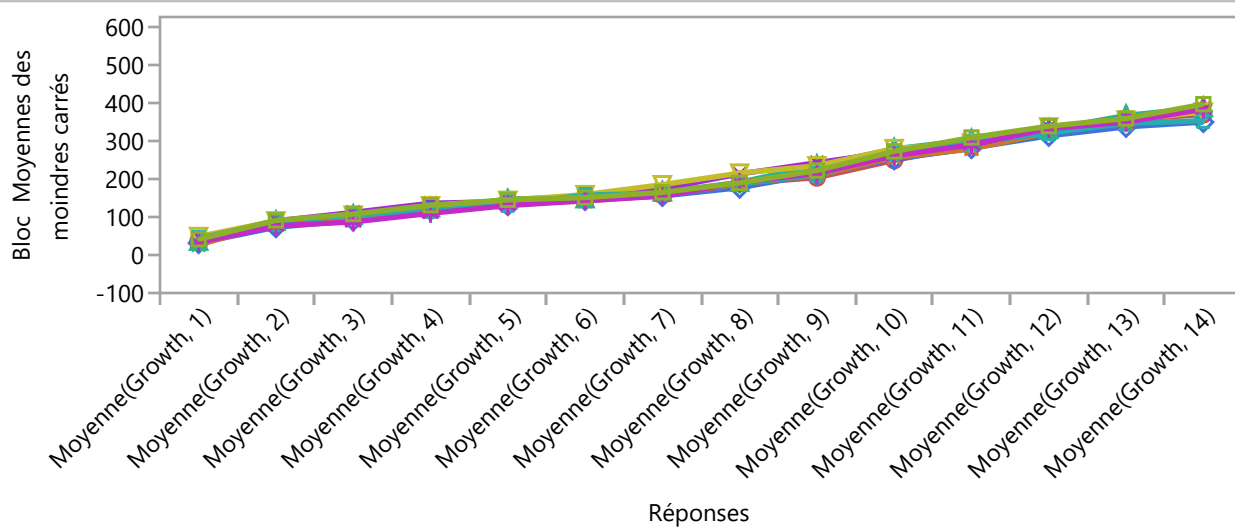
th, 11)	Moyenne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
75472	-26,296405	-38,651931	-40,517234
88627	-47,245115	-50,30576	-25,541778
81504	-0,5994603	-17,945601	-28,133921
95393	-26,411266	-13,685383	-29,523563
46865	65,8308175	77,6742798	86,1189365
70278	26,7531984	60,5315813	65,8092341
85329	-57,44073	-69,405046	-47,08279
82179	-24,606762	-42,758419	-40,482016
54627	49,7473452	27,4462639	44,9569127
5,8245	4,04659127	23,3856091	30,0706627
84524	-34,764619	-44,087665	-58,591381
94683	57,2279603	43,5347758	66,5115159
89746	127,891155	142,582494	179,312151
64341	-52,988984	-75,393954	-73,016183
90333	-27,399143	-18,033478	-7,0580278
90714	39,0491905	23,3558869	33,2432024
55373	-73,101563	-51,129431	-55,164357
44881	1,4219881	-11,899748	-43,880984
18528	-64,513488	-51,509014	-51,743623
77516	-43,606643	-50,21701	-60,512611
44103	-97,729798	-80,35195	-81,233841
14937	-7,2416032	-22,975065	-36,74154
54206	19,189369	28,6859861	13,0273492
06984	49,027623	56,1512242	63,8418532
54778	-63,922456	-40,297506	-29,702155
89222	-42,487099	-62,002268	-72,526381
86944	63,2558968	67,7801925	82,9514365
65437	-7,6573571	-5,1290734	9,25685317
53016	58,250877	53,3295972	40,2781429
33996	-15,67071	-10,243887	-4,6292024
87817	11,6430397	8,44589484	-6,7318611
93532	-6,9426548	-17,45349	-23,706782
28917	-5,3769405	-0,5572996	8,01395238
24881	5,67528175	6,6361131	10,7296667
75119	7,5249246	-3,3430139	0,37361508
87619	21,9127619	19,9600813	11,1546865
07222	-1,8948175	2,48406944	0,94093651
51456	-26,136385	-16,773768	-10,360909

Ajustement de manova**Moyennes des moindres carrés****Grandes moyennes**

Grandes moyennes

Moyenne(Growth, 1) Moyenne(Growth, 2) Moyenne(Growth, 3) Moyenne(Growth, 4) Moyenne(Growth, 5) Moyenne(Growth, 6) Moyenne(Growth, 7) Moyenne(Growth, 8) Moyenne(Growth, 9) Moyenne(Growth, 10) Moyenne(Growth, 11) Moyenne(Growth, 12) Moyenne(Growth, 13) Moyenne(Growth, 14)




38,0383036 83,6651032 100,882012 123,789611 138,520597 149

Bloc

rowth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11)	Moyenne(G
,051716	164,706446	192,306038	219,572869	264,193544	290,523774	3;

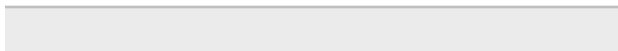
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Bloc

-  B1
-  B2
-  B3
-  B4
-  B5
-  B6
-  B7
-  B8
-  B9
-  B10



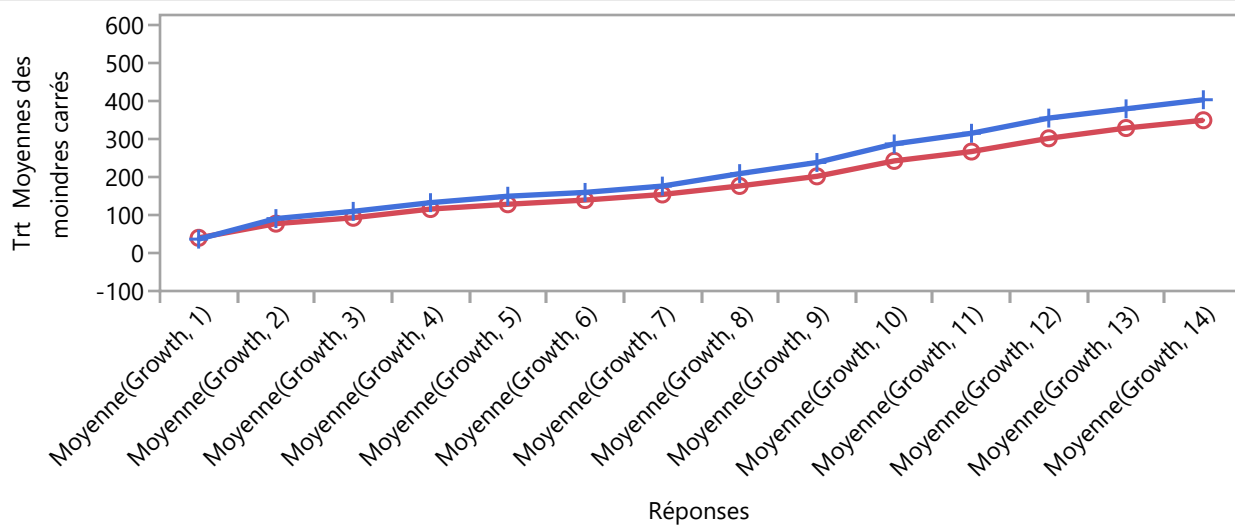
rowth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
27,858099	353,547276	375,722627



Ajustement de manova**Moyennes des moindres carrés****Bloc**

Bloc

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)	Moyenne(Growth, 6)
B1	38,6927778	76,9744444	100,966806	127,925556	137,350972	144,905933
B2	36,8927778	81,7042063	105,612321	120,756032	146,645952	153,743274
B3	31,1576389	72,7240278	90,6458333	118,130139	130,743274	144,905933
B4	26,565	83,6630357	91,7475	125,526806	134,925694	144,905933
B5	35,99	88,2155556	104,136667	123,767222	144,677778	153,743274
B6	44,6075	89,5170833	111,948889	135,921111	140,621389	153,743274
B7	48,4979167	89,6038889	104,653889	129,351429	143,634583	153,743274
B8	43,828869	87,1068452	104,748214	116,395913	131,926369	144,905933
B9	33,005	76,2852778	86,7366667	109,399444	129,774028	144,905933
B10	41,1455556	90,8566667	107,623333	130,72246	144,905933	153,743274

Trt

Trt

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)	Moyenne(Growth, 6)
B	39,741496	77,039873	92,4573294	115,404333	127,959194	144,905933
C	36,3351111	90,2903333	109,306694	132,174889	149,082	153,743274

Mean(Growth, 6)	Mean(Growth, 7)	Mean(Growth, 8)	Mean(Growth, 9)	Mean(Growth, 10)	Mean(Growth, 11)	Mean
148,203194	162,771528	188,205	203,033333	248,676528	288,136567	
152,745556	166,825496	186,212996	208,959742	254,732937	278,779881	
144,43246	154,974464	176,713254	212,795298	251,41631	280,743591	
141,411806	157,185694	186,393611	210,14752	255,805734	278,939901	
147,733333	165,156806	190,764722	235,488472	278,805238	302,829702	
146,816389	173,887917	212,884306	242,557639	271,5825	288,581528	
158,600833	184,779306	215,213135	234,31877	279,664722	293,918056	
157,310972	162,228611	186,91381	211,875972	268,193571	295,070417	
142,57496	154,702659	190,421944	214,646667	260,889464	289,525099	
150,687659	164,551984	189,337599	221,905278	272,168433	308,712996	

Trt

○ — B
 + — C

Mean(Growth, 6)	Mean(Growth, 7)	Mean(Growth, 8)	Mean(Growth, 9)	Mean(Growth, 10)	Mean(Growth, 11)	Mean
138,993738	153,681504	176,108131	201,362877	241,917306	266,491937	
139,109694	175,731389	208,503944	237,782861	286,469782	314,555611	



ie(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
323,488492	355,426647	369,046726
328,890734	361,417639	377,811012
313,115079	336,593929	349,18996
320,971508	347,664444	383,628611
329,735813	366,787877	387,218492
334,553889	359,72625	381,884444
336,623393	354,51371	375,684048
320,554306	345,770833	353,060833
332,170397	349,040893	383,389524
338,477381	358,530536	396,312619



(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
301,330198	328,291163	348,746274
354,386	378,803389	402,69898

Strain



e(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11)	Moyen
178,157639	196,836944	214,964167	228,185139	260,598353	293,937222	
150,072917	161,178056	193,930417	215,458671	269,287917	295,376111	
126,619603	144,751984	168,704683	197,921667	232,003095	250,962143	
140,332083	159,739167	193,944563	233,393829	284,874544	311,14369	
148,033313	165,266528	201,409544	234,374306	275,891151	309,936786	
114,380933	134,865992	166,986091	197,972738	239,214921	266,337897	
150,465536	165,572659	187,410675	213,949702	259,113492	290,851091	
169,085	181,44875	204,755913	229,192976	289,856329	317,005218	
171,971587	183,174603	214,413175	239,018254	292,812758	318,480873	
141,398552	154,229782	176,541151	206,261409	238,282877	251,206706	



ne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
330,2175	357,445833	373,666944
326,883472	351,206448	382,674643
280,598333	311,320397	326,81131
354,202937	373,676587	402,419821
345,104603	372,770556	387,418591
305,624802	316,958651	344,753929
328,72625	358,909524	381,598333
358,150615	387,285456	407,555417
355,499325	391,976786	409,22996
293,573155	313,92252	341,097321

Ajustement de manova**Moyennes des moindres carrés****Bloc*Trt**

Bloc*Trt

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)	Moyen
B1,B	45,0755556	73,9188889	99,5669444	129,342222	133,476389	
B1,C	32,31	80,03	102,366667	126,508889	141,225556	
B2,B	44,2455556	80,7384127	101,854643	116,072063	140,491905	
B2,C	29,54	82,67	109,37	125,44	152,8	
B3,B	38,7841667	69,9625	80,8838889	110,961389	119,641548	
B3,C	23,5311111	75,4855556	100,407778	125,298889	141,845	
B4,B	24,9222222	65,9505159	77,6938889	114,176944	117,456944	
B4,C	28,2077778	101,375556	105,801111	136,876667	152,394444	
B5,B	46,12	96,38	108,956667	126,565556	141,782222	
B5,C	25,86	80,0511111	99,3166667	120,968889	147,573333	
B6,B	40,835	78,8841667	96,4977778	119,132222	123,612778	
B6,C	48,38	100,15	127,4	152,71	157,63	
B7,B	48,8502778	82,6466667	98,4777778	123,27619	142,188056	
B7,C	48,1455556	96,5611111	110,83	135,426667	145,081111	
B8,B	42,5355159	76,3836905	93,3319841	101,240714	119,902738	
B8,C	45,1222222	97,83	116,164444	131,551111	143,95	
B9,B	20,7955556	63,0283333	70,0975	91,3633333	104,343056	
B9,C	45,2144444	89,5422222	103,375833	127,435556	155,205	
B10,B	45,2511111	82,5055556	97,2122222	121,912698	136,69631	
B10,C	37,04	99,2077778	118,034444	139,532222	153,115556	

ne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11)	Moye
142,351944	154,365278	174,843333	192,283333	235,954167	273,324524	
154,054444	171,177778	201,566667	213,783333	261,398889	302,948611	
149,701111	166,026548	183,095992	202,491706	237,93254	250,831984	
155,79	167,624444	189,33	215,427778	271,533333	306,727778	
134,134921	147,763929	162,303175	189,843651	220,149841	251,023016	
154,73	162,185	191,123333	235,746944	282,682778	310,464167	
122,333611	141,229167	173,633889	197,540595	238,231468	255,746468	
160,49	173,142222	199,153333	222,754444	273,38	302,133333	
152,026667	167,883611	188,938333	227,862222	271,414603	298,112738	
143,44	162,43	192,591111	243,114722	286,195873	307,546667	
130,972778	155,455833	181,808611	211,395278	234,34	250,185556	
162,66	192,32	243,96	273,72	308,825	326,9775	
156,036111	178,473056	204,439603	221,593651	264,954444	277,913333	
161,165556	191,085556	225,986667	247,043889	294,375	309,922778	
139,13	145,043333	161,062063	191,296667	243,925198	280,340556	
175,491944	179,413889	212,765556	232,455278	292,461944	309,800278	
120,344921	125,470317	163,911111	179,935556	217,116151	238,841865	
164,805	183,935	216,932778	249,357778	304,662778	340,208333	
142,905317	155,103968	167,045198	199,386111	255,154643	288,599325	
158,47	174	211,63	244,424444	289,182222	328,826667	



nne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
307,649484	342,051627	363,01373
339,3275	368,801667	375,079722
306,958135	349,0875	362,184246
350,823333	373,747778	393,437778
284,221548	318,772857	323,523532
342,008611	354,415	374,856389
291,36746	314	357,815
350,575556	381,328889	409,442222
320,763849	356,930198	372,21254
338,707778	376,645556	402,224444
301,397778	323,8475	348,846389
367,71	395,605	414,9225
318,230952	329,097143	350,319762
355,015833	379,930278	401,048333
298,518333	323,491667	325,59
342,590278	368,05	380,531667
270,349683	280,906786	303,690714
393,991111	417,175	463,088333
313,844762	344,726349	380,266825
363,11	372,334722	412,358413

Ajustement de manova**Moyennes des moindres carrés****Bloc*Strain**

Bloc*Strain

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)	Moy
B1,All	49,6444444	117,122222	139,733333	190,233333	195,55	
B1,Esp	6,15	65,1	109,072222	121,933333	121,794444	
B1,Fra	30,75	59,85	78,2	114,6	110,35	
B1,Gre	34,4	67,15	74,1	109,05	117,4	
B1,Inv1	77,95	112,35	138,2	155,75	168,55	
B1,Inv2	25,1888889	55,4	80,9125	115,9	119,1875	
B1,Ita1	39,4	53	94,6833333	85,0444444	97,0277778	
B1,Ita2	34,95	88,65	109,75	128,4	161,8	
B1,Tur	60,0555556	96,9222222	112,833333	142,361111	162,661111	
B1,Wor	28,4388889	54,2	72,1833333	115,983333	119,188889	
B2,All	16,8666667	134,888889	161,211111	173,905556	206,194444	
B2,Esp	53	72,7	91,6	109,05	126,05	
B2,Fra	20	76,45	93,3	105,15	129,5	
B2,Gre	35,05	73,6	103,2	122,85	148,75	
B2,Inv1	26,05	62,35	84,6	99,2111111	119,488889	
B2,Inv2	43	61,0277778	86,2222222	98,75	117,5625	
B2,Ita1	26,8111111	77,2611111	89,6166667	101,772222	125,883333	
B2,Ita2	43,4	86,45	123,7875	149,25	192,3375	
B2,Tur	62,7785714	117,914286	147,75	169,664286	204,9	
B2,Wor	41,9714286	54,4	74,8357143	77,9571429	95,7928571	
B3,All	29,4	98,15	117,844444	148,494444	168,416667	
B3,Esp	35,5805556	66,4277778	89,9763889	95,8444444	118,15	
B3,Fra	16,25	48,5	66,25	100,2	110,8	
B3,Gre	7,6	55,45	89,25	125,25	128,95	
B3,Inv1	34,5555556	86,4	102,1	132,025	122,35	
B3,Inv2	23,2777778	48,2	64,6375	76,8	105,678571	
B3,Ita1	38,0125	81,8125	108,75	129,6875	131,1375	
B3,Ita2	68,1	119,75	115,55	166,2	170,55	
B3,Tur	22	56,15	64,35	103,6	111,4	
B3,Wor	36,8	66,4	87,75	103,2	140	
B4,All	-3,0166667	106,927778	103,427778	138,788889	148,444444	
B4,Esp	43,6222222	82,9777778	79,7611111	127,0125	149,3	
B4,Fra	35,25	58,9428571	59,0611111	86,8333333	107,077778	
B4,Gre	-18,338889	33,1888889	56,4333333	78,0555556	91,2611111	
B4,Inv1	28,55	84,15	106,1	132,55	146,25	
B4,Inv2	27,2513889	70,7652778	90,7305556	125,258333	131,147222	
B4,Ita1	13,6	104,85	109,1	138,35	147,7	
B4,Ita2	55,3	103,2	116	169,85	161,6	
B4,Tur	47,4375	118,3	110,65	155,325	161,7875	
B4,Wor	35,9944444	73,3277778	86,2111111	103,244444	104,688889	
B5,All	36,7	132,4	100,3	135,05	169,15	
B5,Esp	41,2611111	75,1055556	91,4666667	112,066667	138,388889	

enne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11) Mc
198,427778	244,916667	248,955556	264,133333	289,311111	335,044444
146,766667	168,038889	193,788889	203,4	247,216667	283,122222
126,05	126,55	147,9	162,75	203,95	227,55
124,3	137,3	179,2	193,3	266,633333	295,522222
168,7	185,55	245,952778	263,411111	290,251389	336,279167
128,3875	158,8875	177,325	180,25	215,4125	255,822222
110,494444	123,105556	136,55	134,938889	165,494444	240,523214
175,05	174,6	194,155556	206,15	317,555556	388,428571
167,844444	167,738889	201,216667	219,427778	287,0625	312,1625
136,011111	141,027778	157,005556	202,572222	203,877778	206,911111
230,211111	239,961111	258,183333	259,288889	285	334,661111
124,4	122,55	158,105556	171,138889	221,888889	260,955556
125,45	145,65	158,8	174,3	230,55	241,2
146,05	144,75	169,1	208,75	278,75	312,472222
129,866667	154,6	178,9375	193,35	233,9	269,8
128,625	155,772222	191,6125	235,251389	289,883333	311,827778
134,327778	138,255556	155	186,911111	231,75	257,675
193,925	212,8375	213,9625	240,75	292,9	285,75
215,621429	223,407143	246,392857	256,75	322,421429	331,992857
98,9785714	130,471429	132,035714	163,107143	160,285714	181,464286
176,488889	189,85	216,294444	217,127778	238,711111	269,838889
133,3375	124,9	159,15	214,533929	276,691667	304,8375
114,7	136,8	147,8	181,4	211,1	218,75
131,6	150,25	211,566667	260,988889	309,872222	346,644444
141,0125	134,3875	182,335714	203,583333	229,3	272,05
112,985714	122,857143	141,242857	171,135714	209,471429	237,692857
139,5	157,75	156,592857	217,15	241,8	253,866667
192,55	209,45	217,65	251,983333	315,416667	349,527778
145,45	159,1	152,7	186,85	233,65	269,177778
156,7	164,4	181,8	223,2	248,15	285,05
143,955556	168,105556	173,494444	168,4	193,366667	217,088889
163,3125	170,5625	238,804167	250,033333	302,6375	302,658333
121,266667	130,022222	138,916667	168,9	212,166667	229,005556
94,5722222	116,283333	130,505556	164,633333	222,872222	259,361111
145,85	161,6	208,1	235,2	288,75	346,2
128,383333	138,577778	179,418056	208,779167	245,369444	270,556944
158	177,422222	204,627778	250,985714	271,092857	309,042857
172,05	165,1	213,7	227,3	297,95	318,75
172,466667	193,383333	222,244444	244,593651	300,926984	310,760317
114,261111	150,8	154,125	182,65	222,925	225,975
162,15	177,7	196,55	223,45	250,6	284
143,244444	155,966667	190,755556	223,422222	264,466667	274,6375

Moyenne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
360,427778	407,394444	418,205556
319,111111	330,255556	368,85
249,75	312,05	305,6
319,688889	339,188889	355,077778
370,4875	378,8625	391,773214
311,475	342,1	348,266667
267,469643	308,657143	320,835714
443,766667	461,533333	464,283333
345,575	416,735714	413,35
247,133333	257,488889	304,225
362,075	402,2375	429,275
299,694444	305,2625	326,175
295,3	323,683333	357,516667
355,805556	375,027778	385,416667
309,433333	388,95	373,45
347,584722	366,848611	388,3625
310,028571	356,028571	358,257143
368,921429	421,114286	433,621429
402,178571	464,566667	500,35
237,885714	210,457143	225,685714
307,916667	337,9	337,216667
298,8375	306,754167	310,9
259,6	278,25	303,7
398,055556	413,333333	436,388889
296,8	291	315,8
259,728571	277,014286	273,257143
277,333333	319,95	303,183333
379,416667	434,8125	450,866071
325,1625	340,475	347,5375
328,3	366,45	413,05
278,416667	281,811111	337,2
358,991667	410,033333	444,1375
270,683333	303,266667	333,744444
305,855556	312,927778	352,2375
369,738889	392,705556	419,225
329,119444	334,716667	349,934921
358,764286	396,392857	438,107143
338,1	363,45	413,655556
339,895238	405,490476	428,419048
260,15	275,85	319,625
290,55	327,9	334,85
302,8375	365,971429	394,657143

Ajustement de manova**Moyennes des moindres carrés****Bloc*Strain**

Bloc*Strain

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)	Moy
B5,Fra	27,7	80,4	94,8	114,25	143,2	
B5,Gre	52,8	89,6388889	111,061111	135,466667	131,605556	
B5,Inv1	53,05	113,25	108,177778	118,883333	132,738889	
B5,Inv2	17,25	58,75	81,15	97,65	104,65	
B5,Ita1	25,9	84,5944444	122,577778	150,522222	181,077778	
B5,Ita2	35,5	96,2	121,35	117,1	164,45	
B5,Tur	25,9388889	74,7166667	101,883333	132,772222	137,383333	
B5,Wor	43,8	77,1	108,6	123,911111	144,133333	
B6,All	19,9222222	87,7888889	122,366667	152,911111	162,533333	
B6,Esp	40,3	82,15	79,8	98,85	110,1	
B6,Fra	25,2	73,25	79,9	104,5	119	
B6,Gre	49,3388889	77,9944444	96,1111111	115,466667	114,616667	
B6,Inv1	77,5111111	108,977778	145,088889	166,75	169,05	
B6,Inv2	24,5	84,6	119,4	137,6	142,25	
B6,Ita1	57,5	99,7888889	126,105556	150,438889	151,238889	
B6,Ita2	67,675	98,5875	122,05	142,05	147,575	
B6,Tur	49,8	100,9	126,8	153,55	144,55	
B6,Wor	34,3277778	81,1333333	101,866667	137,094444	145,3	
B7,All	71,15	141,25	126,2	152,45	188,3	
B7,Esp	46,6333333	64,9666667	93,0291667	112,188889	141,334722	
B7,Fra	50,4333333	103,627778	122,183333	146,405556	149,627778	
B7,Gre	60,3	94,3444444	123,788889	146,155556	153,083333	
B7,Inv1	54,25	86,25	93,15	99,6	118,85	
B7,Inv2	8,3375	36,625	53,6375	86,5142857	85,65	
B7,Ita1	56,4125	105,2875	126,2125	151,0875	162,475	
B7,Ita2	67,1625	104,2375	119,1375	149,6125	166,725	
B7,Tur	42,15	96	115,3	148,75	161,6	
B7,Wor	28,15	63,45	73,9	100,75	108,7	
B8,All	78,4611111	123,023611	140,516667	153,752778	176,669444	
B8,Esp	53,3805556	114,053175	126,862698	137,656349	157,148413	
B8,Fra	27,6	51,8	57,4	66,15	85,8	
B8,Gre	32,325	79,9625	97,475	113,8875	115,9375	
B8,Inv1	47,15	95	114,8	143,1	154,45	
B8,Inv2	22,3166667	41,9611111	73,1944444	79,6666667	85,7388889	
B8,Ita1	52,1928571	87,85	115,4	127,05	148,8	
B8,Ita2	35,5125	64,9625	89,75	89,6125	111,225	
B8,Tur	30,5	99,05	114,35	130,85	144,35	
B8,Wor	58,85	113,405556	117,733333	122,233333	139,144444	
B9,All	-15,65	48,8	45,95	56,15	71,2	
B9,Esp	27,85	68,2666667	82,5791667	122,15	154,225	
B9,Fra	27,7222222	72,9611111	77,7777778	101,927778	128,755556	
B9,Gre	73,15	97,8611111	108,5	129,977778	157,683333	

enne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11) Mc
139,95	166,2	189,45	237,25	279,5	302,8
151,15	189,2625	216,825	288,6	322,578571	348,892857
126,466667	146,466667	165,022222	202,529167	241,046032	267,772222
109,65	117,55	157,2	200,372222	255,95	270,916667
183,133333	196,3	199,8	248,411111	294,8	343,744444
173,7	170,5	189,6	236,8	310,15	318,15
138,438889	165,105556	211,05	260,216667	288,772222	321,05
149,45	166,516667	191,394444	233,833333	280,188889	296,333333
193,8125	211,625	224,325	240,4125	270,8375	281,9
124,4	154,5	187,55	228,65	263,95	279,45
117,35	136,2	174,1	225,9	230,7	266
126,255556	145,8	199,105556	202,988889	248,427778	260,183333
164,916667	180,777778	214,827778	278,738889	304,372222	340,25
130,1	195,65	230	272,216667	312,733333	338,383333
155,994444	180,261111	230,3	251,888889	286,45	298,261111
159,3125	195,1875	241,6625	247,475	272,2875	287,3875
149,45	172,75	238,55	268,6	285,2	286,25
146,572222	166,127778	188,422222	208,705556	240,866667	247,75
171,55	197,2	215,255556	238,338889	282,772222	292,05
148,077778	182,556944	217,175	204,7375	251,1125	263,175
188,794444	247,961111	264,794444	291,461111	317,238889	328,961111
182,272222	228,055556	237,877778	261,1375	303,0875	329,225
140,3	184,05	206,4	231,088889	278,977778	277,477778
102,4	112,133333	167,25	203,416667	226,733333	227,55
166,5375	187,25	232,75	227,657143	309,016667	331,6
184,8875	186,575	206,05	242,85	270,725	313,575
156,85	168,85	208,1	225,8	300,65	325,2
144,338889	153,161111	196,478571	216,7	256,333333	250,366667
185,697222	203,794444	224,377778	237,238889	272,318254	314,933333
193,054167	205,658333	221,116667	226,5375	391,6375	444,5125
105,15	98,55	122,938889	152,722222	182,155556	196,344444
158,1	161,6125	195,142857	286,878571	290,133333	284,5
178	184,6	211,516667	243,172222	305,9125	353,0125
116,877778	119,944444	137	149,855556	185,983333	212,129167
164,3	183,15	219,05	226,8	294,877778	320,922222
135,125	150,5875	168,178571	173,321429	248,028571	280,533333
175,4	158,05	169,9	195,8	241,4	264,05
161,405556	156,338889	199,916667	226,433333	269,488889	279,766667
81,3	92,45	128,6	149,3	198,961111	219,694444
174,675	165,075	198,775	233,1	243,375	261,1625
122,427778	139,622222	205,711111	208,133333	254,905556	271,438889
168,033333	181,877778	220,805556	250,761111	338,107143	381,235714

Moyenne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
335,15	376,4	396,3
366,542857	361,064286	387,2
293,438889	370,105556	369,3
294,35	319,4375	332,7
376,9	405,522222	446,855556
361,95	372,211111	403,844444
366,161111	405,938889	411,438889
309,477778	363,327778	395,038889
309,025	354,9625	350,65
302,45	330,75	365,9
278,2	313,8	326,9
294,433333	301,861111	347,675
441,316667	465,933333	475
400,25	401,1875	411,35
336,538889	364,355556	378,994444
338,55	354,8125	373,2
314,95	347,85	389,85
329,825	361,75	399,325
338,383333	340,466667	345,494444
309,2375	338,4875	353,1125
355,194444	389,961111	412,891667
389,721429	435,174603	468,190476
296,429167	304,331944	340,297222
289,783333	275,166667	304,233333
387,238889	387,322222	426,516667
370,9625	411,6375	437,5875
329,5	348,855556	350,6
299,783333	313,733333	317,916667
380,141667	393,204167	417,516667
447,470833	486,0125	539,325
220,305556	228,15	231,133333
319,5	347,866667	372,7
376,85	388,35	398
225,219444	258,052778	266,927778
322,844444	339,233333	315,055556
286,333333	328	333,15
304,588889	333,983333	326,055556
322,288889	354,855556	330,744444
236,8	272,5875	300,1
323,954167	323,725	353,6
304,1	335,5	347,505556
407,542857	425,321429	473,928571

Ajustement de manova**Moyennes des moindres carrés****Bloc*Strain**

Bloc*Strain

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)	Moy
B9,Inv1	34,7777778	59,1388889	66,0333333	79,1625	92,6625	
B9,Inv2	5,75	43,9	54,05	81,85	89,4	
B9,Ita1	22,7	75,075	86,5375	114,6375	130,475	
B9,Ita2	33,75	98,25	111,15	127,4	146,95	
B9,Tur	85,05	123,25	147,788889	175,8	194,444444	
B9,Wor	34,95	75,35	87	104,938889	131,944444	
B10,All	83,75	156,7	179,95	214,094444	237,022222	
B10,Esp	45,5666667	79,85	90,7055556	109,583333	130,277778	
B10,Fra	13,7625	49,3375	65,275	92,6357143	94,1357143	
B10,Gre	24,0611111	74,5875	84,625	100,1875	129,1625	
B10,Inv1	64,1611111	119,922222	135,255556	155,983333	160,205556	
B10,Inv2	5,5375	52,775	70,7625	84,75	99,55	
B10,Ita1	40,2888889	87,8222222	104,188889	149,075	143,6625	
B10,Ita2	56,25	105,45	114,6	126,9	141,3	
B10,Tur	52,2333333	116,072222	144,183333	160,627778	179,405556	
B10,Wor	25,8444444	66,05	86,6875	113,3875	134,3375	

Trt*Strain

Trt*Strain

	Moyenne(Growth, 1)	Moyenne(Growth, 2)	Moyenne(Growth, 3)	Moyenne(Growth, 4)	Moyenne(Growth, 5)	Moy
B,All	35,0844444	107,798056	111,336667	138,860556	155,907222	
B,Esp	46,8277778	77,4928571	96,205873	116,114881	132,278294	
B,Fra	31,0325	62,9938492	73,6072222	96,4960317	104,601587	
B,Gre	34,2072222	60,1155556	78,0188889	100,299444	112,81	
B,Inv1	53,4611111	82,1077778	102,131111	123,173056	135,779167	
B,Inv2	23,0041667	52,6552778	72,1383333	91,9211905	98,2084921	
B,Ita1	41,7735714	78,7383333	99,51	124,369722	133,613333	
B,Ita2	47,88	91,4475	111,745	128,225	144,9025	
B,Tur	44,1987698	89,6761905	98,9366667	127,435635	139,091944	
B,Wor	39,9453968	67,3733333	80,9435317	107,147817	122,399405	
C,All	38,3611111	121,612222	136,163333	164,305556	188,788889	
C,Esp	31,8411111	76,8266667	90,7647222	113,152222	137,075556	
C,Fra	23,9011111	72,03	85,2222222	110,034444	131,047778	
C,Gre	35,93	88,64	110,89	134,97	144,88	
C,Inv1	46,14	103,45	116,57	133,43	141,14	
C,Inv2	17,4777778	58,1455556	82,8011111	105,026667	117,954444	
C,Ita1	32,79	92,73	117,124444	135,163333	150,282222	
C,Ita2	51,64	101,7	116,88	145,05	168	
C,Tur	51,39	110,178889	138,241111	167,224444	181,404444	
C,Wor	33,88	77,59	98,41	113,392222	130,246667	

enne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11) Mc
113,720635	136,633333	177,077778	206,744444	229,744444	251,883333
88,75	108,75	132,9	162,65	185,85	231,95
147,292857	153,707143	170,061111	210,616667	277,588889	320,311111
154	174	205,3	233,6	287,5	315
210,844444	229,844444	268,405556	277,961111	352,25	379,0375
164,705556	165,066667	196,583333	213,6	240,6125	263,5375
237,983333	242,766667	263,605556	284,161111	324,105556	390,161111
149,461111	161,972222	174,083333	199,033333	229,902778	279,25
105,057143	119,964286	136,635714	176,4	197,764286	227,571429
120,9875	142,2	179,316667	215,9	268,283333	293,4
171,5	184	223,925	285,925	356,657143	384,642857
97,65	118,5375	155,9125	195,8	264,7625	306,55
145,075	158,525	169,375	184,1375	218,264286	232,564286
150,25	175,65	197,3	231,7	286,05	312,95
187,35	193,516667	225,572222	254,183333	315,794444	385,127778
141,5625	148,3875	167,65	191,8125	260,1	274,9125

ne(Growth, 6)	Moyenne(Growth, 7)	Moyenne(Growth, 8)	Moyenne(Growth, 9)	Moyenne(Growth, 10)	Moyenne(Growth, 11) Moye
164,900833	189,755	196,931667	207,141389	236,493929	267,471389
148,407778	160,662222	190,1225	211,235675	261,727778	286,333056
109,933651	122,392857	146,981587	178,326667	201,580635	219,380952
126,264167	144,148333	168,795794	206,659881	250,206865	275,182937
144,546627	158,293056	181,39131	207,667222	251,716429	285,83246
103,205198	119,821984	150,671071	172,614365	214,597619	244,403571
140,325516	160,170873	180,953571	206,996071	243,498095	275,128016
157,62	171,2075	187,821825	212,339286	268,489325	286,512659
154,066508	158,636984	187,028571	208,602063	257,934405	281,597579
140,667103	151,72623	170,383413	202,046151	232,927976	243,076746
191,414444	203,918889	232,996667	249,228889	284,702778	320,403056
151,738056	161,693889	197,738333	219,681667	276,848056	304,419167
143,305556	167,111111	190,427778	217,516667	262,425556	282,543333
154,4	175,33	219,093333	260,127778	319,542222	347,104444
151,52	172,24	221,427778	261,081389	300,065873	334,041111
125,556667	149,91	183,301111	223,331111	263,832222	288,272222
160,605556	170,974444	193,867778	220,903333	274,728889	306,574167
180,55	191,69	221,69	246,046667	311,223333	347,497778
189,876667	207,712222	241,797778	269,434444	327,691111	355,364167
142,13	156,733333	182,698889	210,476667	243,637778	259,336667

Moyenne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
285,494444	327,966667	365,383333
267,45	250,45	279,894444
396,294444	422,183333	472,216667
354,805556	377,65	424,479167
418,0625	440,8	457,175
327,2	314,225	359,6125
438,438889	455,994444	466,161111
306,25	314,8125	370,089286
237,7	252,142857	252,821429
384,883333	425	445,383333
411,057143	419,5	425,957143
331,2875	344,6125	492,6125
253,85	289,45	355,961111
338,7	347,633333	340,866667
408,919444	415,072222	467,523611
273,6875	321,0875	345,75

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Moyenne(Growth, 12)	Moyenne(Growth, 13)	Moyenne(Growth, 14)
288,018889	321,945833	342,061389
311,998611	334,39623	348,966429
247,127778	268,610794	276,128175
322,298095	347,863175	383,457421
324,251984	354,150556	371,171905
286,621825	288,359524	318,15119
324,111111	353,613492	365,776667
329,727897	364,513413	381,52
302,83504	349,946905	371,892698
276,310754	299,511706	328,336865
372,416111	392,945833	405,2725
341,768333	368,016667	416,382857
314,068889	354,03	377,494444
386,107778	399,49	421,382222
365,957222	391,390556	403,665278
324,627778	345,557778	371,356667
333,341389	364,205556	397,42
386,573333	410,0575	433,590833
408,163611	434,006667	446,567222
310,835556	328,333333	353,857778

Ajustement de manova**Inter-sujets**

Sum

Tout entre

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	3,1045832	2,1311	118	81	0,0002*

Constante

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	89,277862	7231,5068	1	81	<,0001*

Bloc

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	0,0946034	0,8514	9	81	0,5716

Trt

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	0,5077753	41,1298	1	81	<,0001*

Strain

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	0,6926143	6,2335	9	81	<,0001*

Bloc*Trt

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	0,1828818	1,6459	9	81	0,1162

Bloc*Strain

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	1,528545	1,5285	81	81	0,0289*

Trt*Strain

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	0,0981634	0,8835	9	81	0,5436

Intra-sujets

Contrast

Ajustement de manova**Intra-sujets****Tout intra-interactions**

Test	Valeur	Approximation de F	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Lambda de Wilk	2,4895e-7	1,3935	1534	952,91	<,0001*
Trace de Pillai	8,6542942	1,3670	1534	1053	<,0001*
Hotelling-Lawley	32,146064	1,4083	1534	658,06	<,0001*
Racine max. de Roy	5,3410087	3,6663	118	81	<,0001*
Epsilon non ajusté univarié=	1	1,6715	1534	1053	<,0001*
Epsilon G-G univarié=	0,2163805	1,6715	331,93	227,85	<,0001*
Epsilon H-F univarié=	0,5515268	1,6715	846,04	580,76	<,0001*

Jours

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	106,6685	566,1636	13	69	<,0001*
Epsilon non ajusté univarié=	1	3443,7229	13	1053	<,0001*
Epsilon G-G univarié=	0,2163805	3443,7229	2,8129	227,85	<,0001*
Epsilon H-F univarié=	0,5515268	3443,7229	7,1698	580,76	<,0001*

Jours*Bloc

Test	Valeur	Approximation de F	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Lambda de Wilk	0,0311452	2,6717	117	529,19	<,0001*
Trace de Pillai	2,6491275	2,4707	117	693	<,0001*
Hotelling-Lawley	4,782699	2,7560	117	320,86	<,0001*
Racine max. de Roy	1,5350464	9,0922	13	77	<,0001*
Epsilon non ajusté univarié=	1	1,4676	117	1053	0,0015*
Epsilon G-G univarié=	0,2163805	1,4676	25,317	227,85	0,0753
Epsilon H-F univarié=	0,5515268	1,4676	64,529	580,76	0,0131*

Jours*Trt

Test	Valeur	F exact	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Test F	1,2181057	6,4653	13	69	<,0001*
Epsilon non ajusté univarié=	1	24,0457	13	1053	<,0001*
Epsilon G-G univarié=	0,2163805	24,0457	2,8129	227,85	<,0001*
Epsilon H-F univarié=	0,5515268	24,0457	7,1698	580,76	<,0001*

Jours*Strain

Test	Valeur	Approximation de F	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Lambda de Wilk	0,0623763	2,0332	117	529,19	<,0001*
Trace de Pillai	2,0370059	1,7328	117	693	<,0001*
Hotelling-Lawley	4,16464	2,3998	117	320,86	<,0001*
Racine max. de Roy	2,1598898	12,7932	13	77	<,0001*
Epsilon non ajusté univarié=	1	3,3030	117	1053	<,0001*
Epsilon G-G univarié=	0,2163805	3,3030	25,317	227,85	<,0001*
Epsilon H-F univarié=	0,5515268	3,3030	64,529	580,76	<,0001*

Ajustement de manova**Intra-sujets****Jours*Bloc*Trt**

Test	Valeur	Approximation de F	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Lambda de Wilk	0,1860847	1,1412	117	529,19	0,1693
Trace de Pillai	1,45368	1,1410	117	693	0,1634
Hotelling-Lawley	1,9729986	1,1369	117	320,86	0,1919
Racine max. de Roy	0,6075887	3,5988	13	77	0,0002*
Epsilon non ajusté univarié=	1	1,2778	117	1053	0,0305*
Epsilon G-G univarié=	0,2163805	1,2778	25,317	227,85	0,1759
Epsilon H-F univarié=	0,5515268	1,2778	64,529	580,76	0,0789

Jours*Bloc*Strain

Test	Valeur	Approximation de F	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Lambda de Wilk	2,1941e-5	1,1715	1053	944,74	0,0064*
Trace de Pillai	7,0516815	1,1855	1053	1053	0,0029*
Hotelling-Lawley	18,131646	1,1573	1053	632,45	0,0210*
Racine max. de Roy	3,2297449	3,2297	81	81	<,0001*
Epsilon non ajusté univarié=	1	1,3549	1053	1053	<,0001*
Epsilon G-G univarié=	0,2163805	1,3549	227,85	227,85	0,0112*
Epsilon H-F univarié=	0,5515268	1,3549	580,76	580,76	0,0001*

Jours*Trt*Strain

Test	Valeur	Approximation de F	Degrés de liberté du numérateur	Degrés de liberté du dénominateur	Prob. > F
Lambda de Wilk	0,2026099	1,0771	117	529,19	0,2917
Trace de Pillai	1,3804775	1,0731	117	693	0,2958
Hotelling-Lawley	1,8759746	1,0810	117	320,86	0,2959
Racine max. de Roy	0,6656662	3,9428	13	77	<,0001*
Epsilon non ajusté univarié=	1	1,0018	117	1053	0,4801
Epsilon G-G univarié=	0,2163805	1,0018	25,317	227,85	0,4660
Epsilon H-F univarié=	0,5515268	1,0018	64,529	580,76	0,4764