

Bodyweight at 3 weeks of age

bw3	1-147	1-373	1-471	13-53
1-147	F	S	I	
1-373	E			
1-471	I		F	FS
13-53				F

	Significant using 5% genomewide threshold				F	Significant using forward selection		
	Significant using 10% genomewide threshold				S	Significant using SIM		
	Significant using 20% genomewide threshold				FS	Significant using forward selection and SIM		
I	Low information < 30% of individuals highly informative				E	Epistatic model selected for QTL pair		

Bodyweight at 6 weeks of age

bw6	1-71	1-150	1-383	1-455	2-239	3-34	4-168	6-34	13-56	18-13	27-0
1-71	F							I			
1-150		F		FS			FS			S	
1-383								S	I		
1-455				F			FS		S		
2-239								S	I		
3-34								S			
4-168							F	FS	FS		
6-34	I		E		E	E		F			
13-56			I		I				F		
18-13		E									
27-0											F

	Significant using 5% genomewide threshold							F	Significant using forward selection		
	Significant using 10% genomewide threshold							S	Significant using SIM		
	Significant using 20% genomewide threshold							FS	Significant using forward selection and SIM		
I	Low information < 30% of individuals highly informative							E	Epistatic model selected for QTL pair		

Bodyweight at 9 weeks of age

bw9	1-68	1-397	2-292	4-177	8-13	13-55
1-68	F					
1-397		F		FS		I
2-292			F			
4-177				F		
8-13					F	I
13-55		I			I	F

	Significant using 5% genomewide threshold					F	Significant using forward selection		
	Significant using 10% genomewide threshold					S	Significant using SIM		
	Significant using 20% genomewide threshold					FS	Significant using forward selection and SIM		
I	Low information < 30% of individuals highly informative					E	Epistatic model selected for QTL pair		

Growth from 3 to 6 weeks of age

gr36	1-145	1-400	2-245	2-300	4-170	6-33	7-105	8-25	13-52	18-16	27
1-145										S	S
1-400		F			S	S					
2-245									I		
2-300				F							
4-170					F	FS			FS		
6-33						F					FS
7-105											S
8-25								F			S
13-52			I						F		
18-16	E										
27	E						E				F

	Significant using 5% genomewide threshold					F	Significant using forward selection			
	Significant using 10% genomewide threshold					S	Significant using SIM			
	Significant using 20% genomewide threshold					FS	Significant using forward selection and SIM			
I	Low information < 30% of individuals highly informative					E	Epistatic model selected for QTL pair			

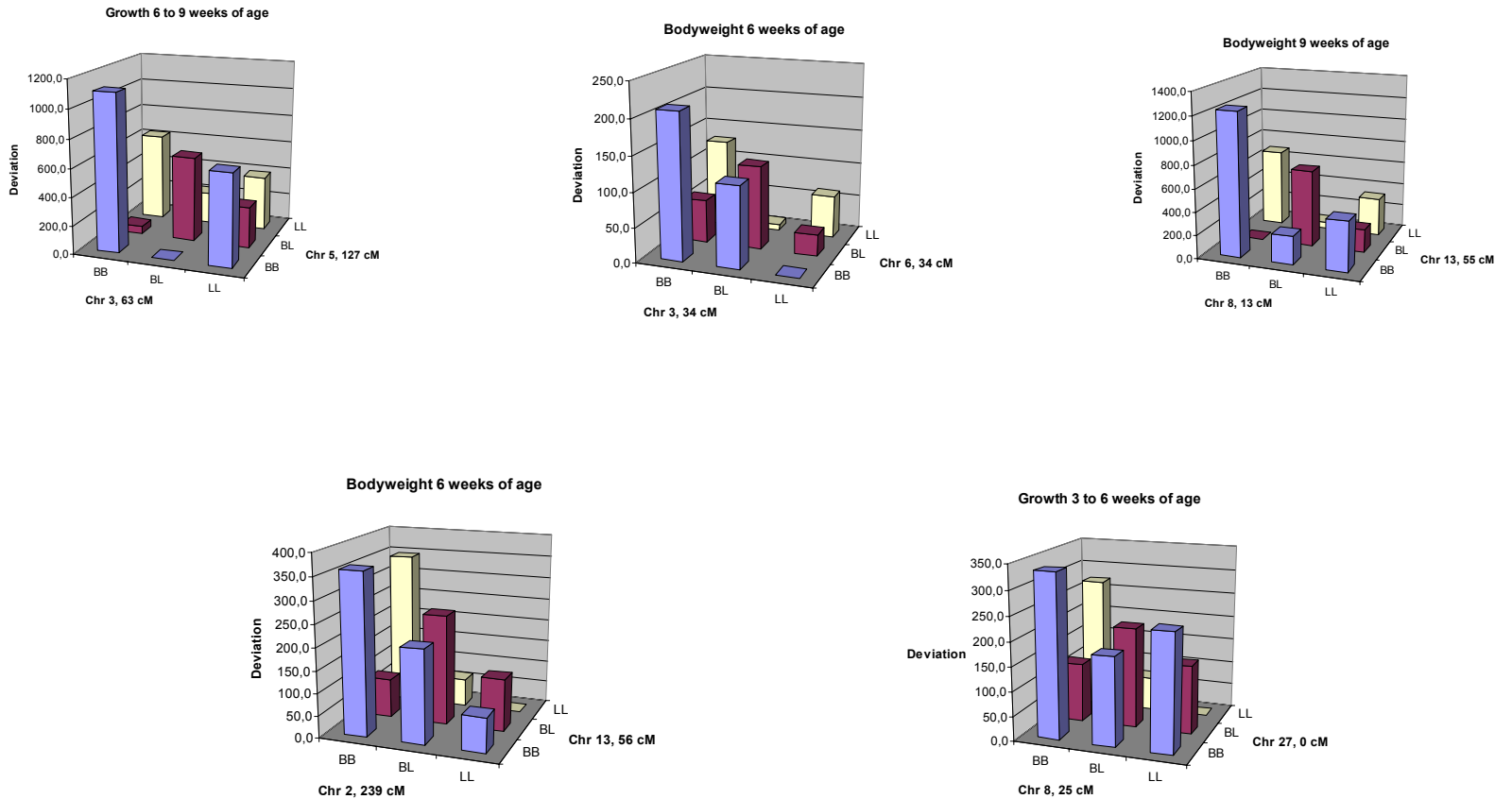
Growth from 6 to 9 weeks of age

gr69	1-399	3-63	4-196	5-127
1-399	F			
3-63				I
4-196			F	
5-127		I		

	Significant using 5% genomewide threshold				F	Significant using forward selection		
	Significant using 10% genomewide threshold				S	Significant using SIM		
	Significant using 20% genomewide threshold				FS	Significant using forward selection and SIM		
I	Low information < 30% of individuals highly informative				E	Epistatic model selected for QTL pair		

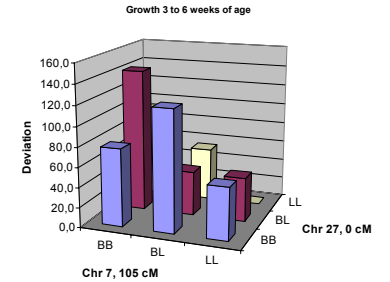
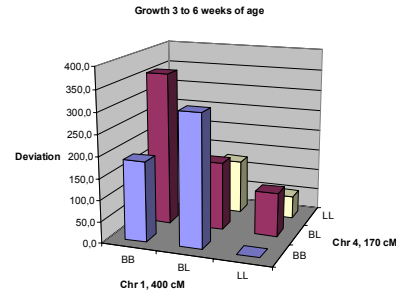
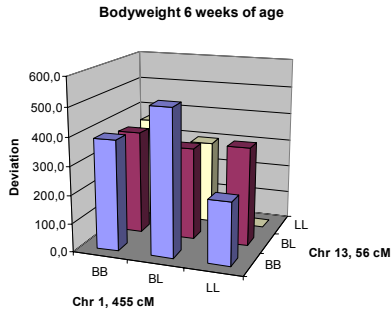
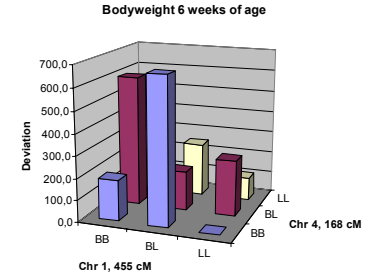
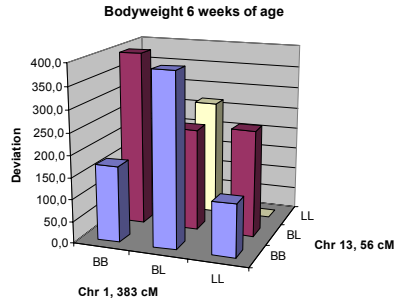
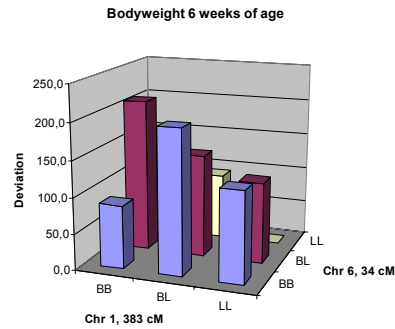
QTL Pairs Type I

Several combinations of homozygote-heterozygote have lower phenotypes than expected



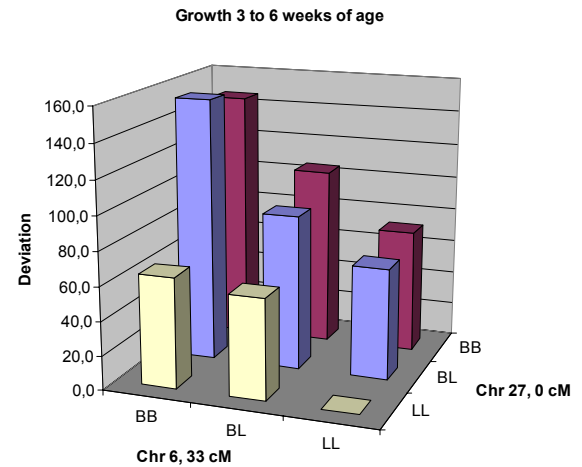
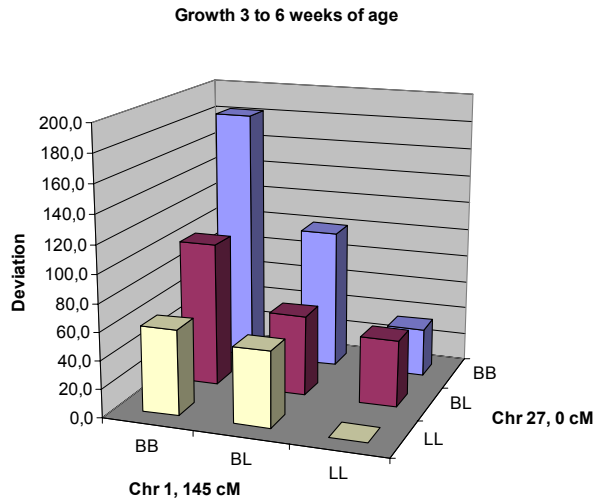
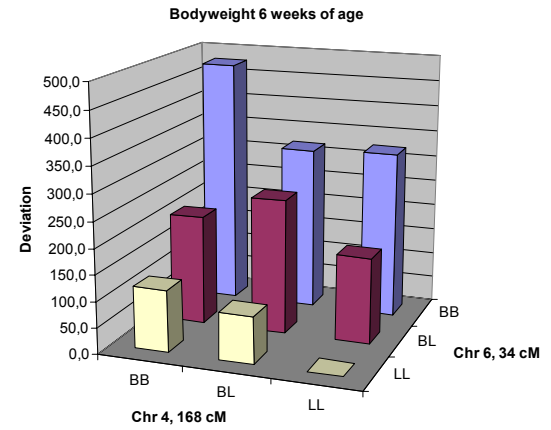
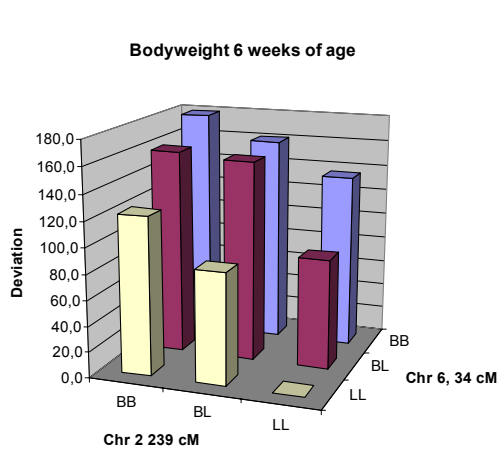
QTL Pairs Type II

The broiler double-homozygote have lower phenotype than expected



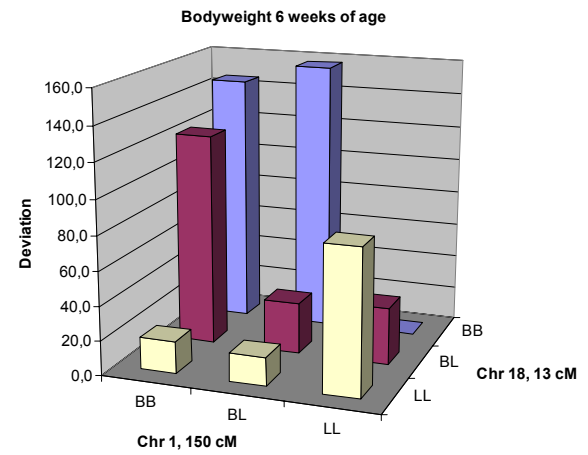
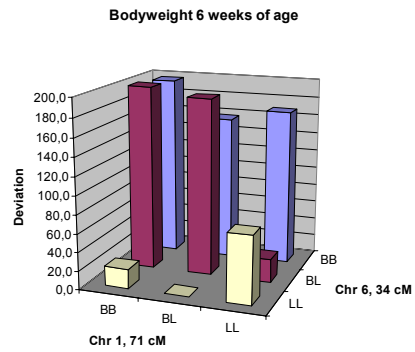
QTL Pairs Type III

Smooth surface (“additivity”) patterns



QTL Pairs Type IV

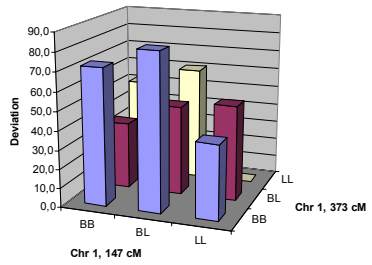
Hi/Lo + LLLL groups



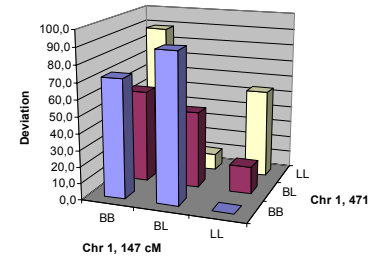
QTL Pairs Type V

Unclassified patterns

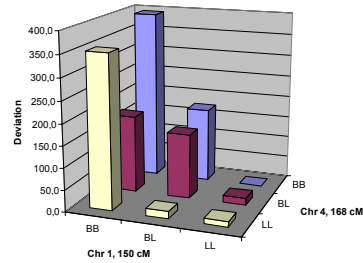
Bodyweight at 3 weeks of age



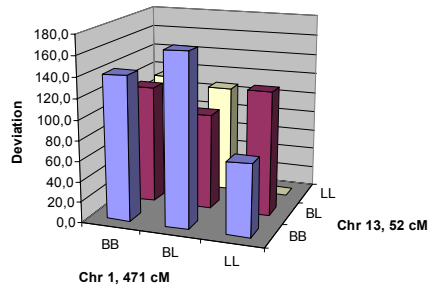
Bodyweight 3 weeks of age



Bodyweight 6 weeks of age



Bodyweight 3 weeks of age



Bodyweight 6 weeks of age

