

Generation Mean Analysis for C:\INDOSTAT\DATA\DGW (LEAF THICKNESS mm)

	Parent 1	Parent 2	F1 Cross	F2 Cross	F3 Cross	Parameter	Value	F Ratio
Frequency	15.0000	15.0000	60.0000	30.0000	30.0000	sl ² e	0.0002	
Mean	0.1787	0.2017	0.1670	0.1757	0.1847	Genetic Variation Test		
Variance	0.0002	0.0004	0.0000	0.0000	0.0005	F2	0.2211	0.9988
Var.of Mean	0.0000	0.0000	0.0000	0.0000	0.0000	F3	2.5680	0.0000 ***
Std.Error	0.0033	0.0049	0.0004	0.0011	0.0039			

ANOVA for LEAF THICKNESS mm

Source of Variations	df	Sum of Squares	Mean Squares	F Ratio	Probability
Replicates	2	0.00174	0.00087	5.991	0.02569 *
Generations	4	0.00201	0.00050	3.459	0.06368
Error	8	0.00116	0.00015		
Total	14	0.00491	0.00035		

Parameter	Parent 1	Parent 2	Mid-Parent	Inbreeding Depression
Heterosis over	-6.530	-17.190**	-12.182*	-5.190 %

Scaling Test

	Parameter	Variance	S.E.mean	t value	Probability
C	-0.012	0.000	0.007	-1.561	0.121
D	0.007	0.000	0.017	0.418	0.677

	Parameter	Variance	S.E.mean	t value	Probability
M (mean)	0.176	0.000	0.001	154.365	0.000
d(Additive)	-0.012	0.000	0.003	-3.910	0.001
h(Dominance)	-0.030	0.000	0.011	-2.811	0.006
L(Dom * Dom)	0.025	0.001	0.023	1.100	0.274
I(Add * Add)	-0.030	0.000	0.009	-3.295	0.001
Dominance Degree	1.6092				

Joint scaling test

	Parameter	Variance	S.E.mean	t value	Probability
M mean	0.187	0.000	0.002	109.108	
d Add	-0.010	0.000	0.003	-3.680	
h Dom	-0.020	0.000	0.002	-11.156	
Dominance Degree	1.3951				

Test of Goodness of fit

Generation	Weight	Observed	Expected	χ^2
P1	92783.88	0.1787	0.1767	0.3631
P2	41972.30	0.2017	0.1973	0.8026
F1	7376061.00	0.1670	0.1669	0.0282
F2	772184.40	0.1757	0.1770	1.3009
F3	66479.81	0.1847	0.1820	0.4806
		$\Sigma\chi^2$		2.975
		Probability		0.226