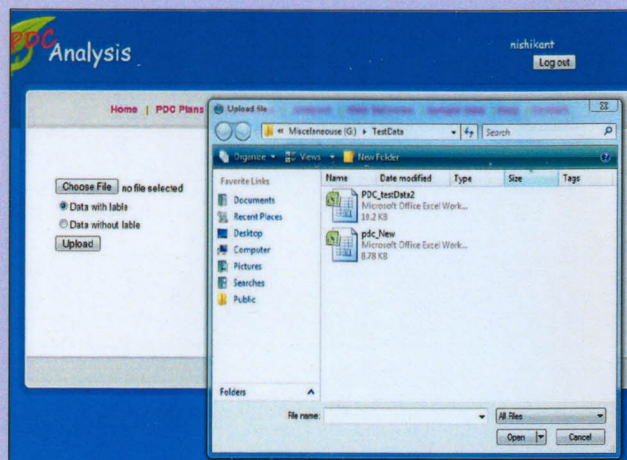


Uploading excel file for analysis



Output

ANOVA					
Source	Degrees of freedom	Sum of squares	Mean sum of squares	F value	Probability
Blocks	1	49.000	49.000	1.182	0.292
Crosses	17	1467.556	86.327	2.082	0.07
g.c.a	8	283.496	35.437	0.855	0.570
s.c.a	9	1184.060	131.562	3.172	0.019
Error	17	705.000	41.471		
Total	35	2221.556			

See ANOVA result

Mean Table		GCA Estimates	
Cross	Mean	Line	Estimates
1x5	31.500	1	-2.976
1x6	33.500	2	-0.314
1x8	34.000	3	-1.126
1x9	45.500	4	0.099
		5	0.811
		6	-0.424
		7	0.399

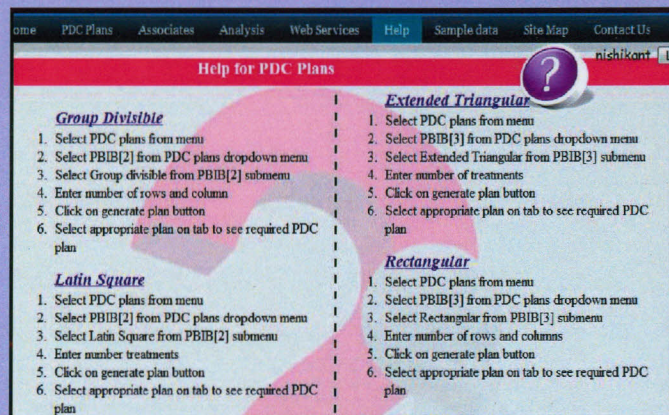
Variance Components	
σ^2_g	-13.732
σ^2_s	110.827
σ^2_A	-27.464
σ^2_D	110.827

Key Features

- Web based, User friendly, Menu driven
- Compatible with MS-Excel and text files

Online HTML Help

Software provides online HTML help on generation of PDC plans, association schemes and analysis



User Management

- Separate User Account
- New User Registration
- Change Password
- Retrieve Forgotten Password

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WEB BASED GENERATION AND ANALYSIS OF PARTIAL DIALLEL CROSSES

आंशिक डायलेल क्रॉसस की संरचना एवं विश्लेषण करने के लिए वैब पर आधारित साफ्टवेयर
(<http://nabg.iasri.res.in/webpdc/login.aspx>)



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(2012)



WEB BASED GENERATION AND ANALYSIS OF PARTIAL DIALLEL CROSSES

(<http://nabg.iasri.res.in/webpdc/login.aspx>)

webPDC is a web based software for generation of PDC plans based on association schemes of Partially Balanced Incomplete Block (PBIB) designs. The software also analyzes the data obtained on Partial Diallel Cross (PDC) plan laid out in a Randomized Complete Block (RCB) design.

Generation of PDC Plans

This module generates PDC plans using association schemes of PBIB(2) and PBIB(3) designs. User can select an appropriate plan from the "PDC Plans" menu for getting the user interface for corresponding plan to be displayed.

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About w PBIB[2] Group Divisible

PBIB[3] Latin Square

Diallel crosses have been used Triangular breeding trials to investigate the genetic properti bred lines or individuals. In a complete diallel cross (CDC) plan as the number of lines increases, the number of crosses increases rapidly resulting in Circular

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About w PBIB[2]

PBIB[3] Extended Triangular

Diallel crosses have been used Rectangular breeding trials to investigate the genetic properti bred lines or individuals. In a complete diallel cross (CDC) plan as the number of lines increases, the number of crosses increases rapidly resulting in difficulty to handle all of them effectively. Hence, it is desirable to go Circular Nested Group Divisible

- Various input forms have been designed and developed for the generation of the above listed plans.
- User can enter the total number of lines and then click on "Generate Plan" to see the plan based on various associates.

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Crossing Plan using Group Divisible Association Scheme Help

Total number of lines l (= mn)

m : 3

n : 4

Generate Plans

Plan using first associates Plan using second associates

Total number of crosses are 48

(1x5)	(1x6)	(1x7)	(1x8)	(1x9)	(1x10)
(1x11)	(1x12)	(2x5)	(2x6)	(2x7)	(2x8)
(2x9)	(2x10)	(2x11)	(2x12)	(3x5)	(3x6)

Save PDC plan using second associates.

Generation of Associates

PBIB(2) Association Schemes

Group divisible, Triangular, Latin Square and Circular

PBIB(3) Association Schemes

Rectangular, Extended Triangular, Circular and Nested Group Divisible

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Triangular Association Scheme Help

Total number of lines l [= s(s-1)/2]

Enter s : 5

Generate Associates

First Associates Second Associates

Show first associates

1	2	3	4	5	6	7
2	1	3	4	5	8	9
3	1	2	4	6	8	10
4	1	2	3	7	9	10

Analysis of PDC Plans

The software can analyze the data obtained on PDC plan laid out in a RCB design. The analysis provides Analysis of Variance (ANOVA), means for the PDCs, estimates of variance components and standard error of difference of gca estimates.