Homework WOOK 9

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question 502

	1	- 921103 -			
Source	DF	5.5	M 3	F	P
20011 66		0.0002	6.0002	0.00001008	0.998
A			8419		
В	3	180 • 378	60+126	3.029	0.0934
			8	12.1	0.932
Interaction	3	8.479	2.826	0.1424	0 13-
Error	8	158.797	19.85	AAAA AAAAA	
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Total	15	347-653	78-61	35 M	
		+3+1-0	12.20	one M	

The above table calculations were computed using calculation that can be seen in one Noxt pages.

Calculations done

(2)

$$M_{5B} = \frac{55_{B}}{\Delta F(B)} = \frac{180.378}{3} = 60.126$$

$$M_{5AB} = \frac{55_{AB}}{\Delta F(AB)} = \frac{8.479}{3} = 2.826$$

$$F(A) = \frac{M5A}{M5E} = \frac{0.0002}{19.85} = 0.00001008$$

$$F(B) = \frac{M5B}{M5E} = \frac{60.126}{19.85} = 3.029$$

$$F(AB) = \frac{MSAB}{MSE} = \frac{2.826}{19.85} = 0.1424 //$$

the f-value were generated using a calculator P-values of A DF (Numerator)= 1 DF (donomin ator) = 8 F-value = 0.00001008 the corresponding P-value 13 0.99755 P-ralus for B DF numera por = 3 DF denominator = 8 F-Value = 3.029 the Gorrosponding P-value 45 0.09335 question B LOVOLS OF B = DF(B) +1 = 3+1=4 question C the number of replicators that the Experiment was porformed 15 DF (total) = 15 = abn-1 with the second abn-1 = 15 8n-1=15 8n = 16 : [n = 2]

Funstion de model Equation

Tyk = M + Xi + Bj + XBij + Eyk where Eyk-N(0, 62)

The hypothesis

Ho: x1 = 0 for Vi

Ita: xi + 0 for somei

Also Ho: By = O for to Ha: By \$ 0 for some;

also; Hoapij = 0 for trij

Ha: xBij to for some i'j

50 with x=0.05 (Levol of significance)

for factor A : p-value > x : We don't reject to and hence

for factor B: p-value x: We don't Reject to and hence

For Interaction term factor (AB) p-value 7 x, we don't prect to and hence not Bignificant.