

**Summary of Fit**

RSquare	0.601345
RSquare Adj	0.534903
Root Mean Square Error	12.82067
Mean of Response	98.46667
Observations (or Sum Wgts)	15

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Model	2	2975.2969	1487.65	9.0506	
Error	12	1972.4365	164.37		
C. Total	14	4947.7333			0.0040*

**Parameter Estimates**

Term	Estimate	Std Error	t Ratio	Prob> t	VIF
Intercept	161.16616	16.65267	9.68	<.0001*	.
kmN	-0.108413	0.034379	-3.15	0.0083*	1.8480812
kmE	-0.279814	0.066039	-4.24	0.0012*	1.8480812

**Summary of Fit**

RSquare	0.778
RSquare Adj	0.667
Root Mean Square Error	7.370
Mean of Response	61.944
Observations (or Sum Wgts)	16.000

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Model	5	1903.6867	380.737	7.0100	
Error	10	543.1375	54.314		
C. Total	15	2446.8242			0.0047*

**Parameter Estimates**

Term	Estimate	Std Error	Prob> t	VIF
Intercept	84.529944	13.70174	0.0001*	.
kmN	-0.072700	0.02191	0.0078*	2.27
kmE	-0.169282	0.04272	0.0027*	2.35
SumDD5C	0.017406	0.00933	0.0916	1.37
(kmN-328.59)*(SumDD5C-973.205)	0.000266	0.00012	0.0499*	2.74
(kmE-97.4754)*(SumDD5C-973.205)	0.000428	0.00020	0.0540	2.61

Table 4. Effects of latitude, longitude and degree-days on the timing of the reproductive phenostage for medusahead as represented by the inflection point in the curves modeled in Figure 6.