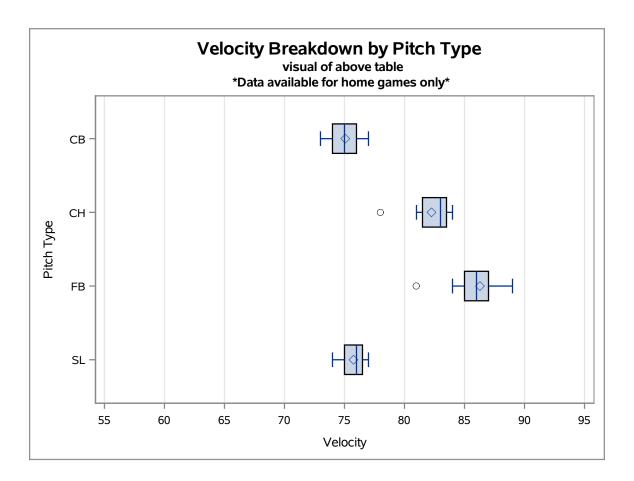
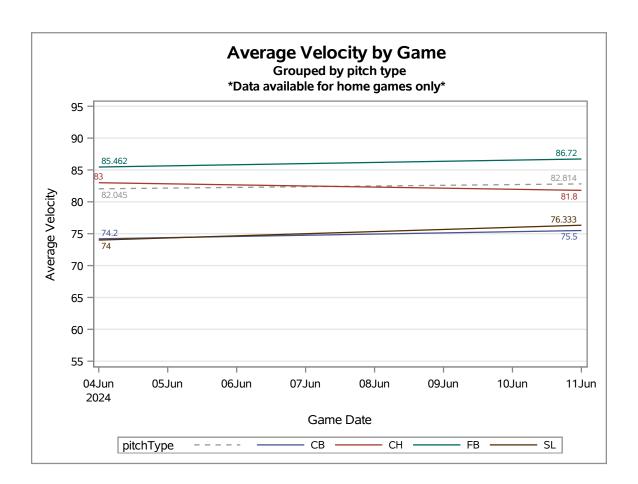
Velocity Breakdown by Pitch Type *Data available for home games only*

Analysis Variable : velocity						
pitchType Obs N Minimum Mean Maxim						
СВ	15	15	73.0	75.1	77.0	
СН	8	8	78.0	82.3	84.0	
FB	38	38	81.0	86.3	89.0	
SL	4	4	74.0	75.8	77.0	





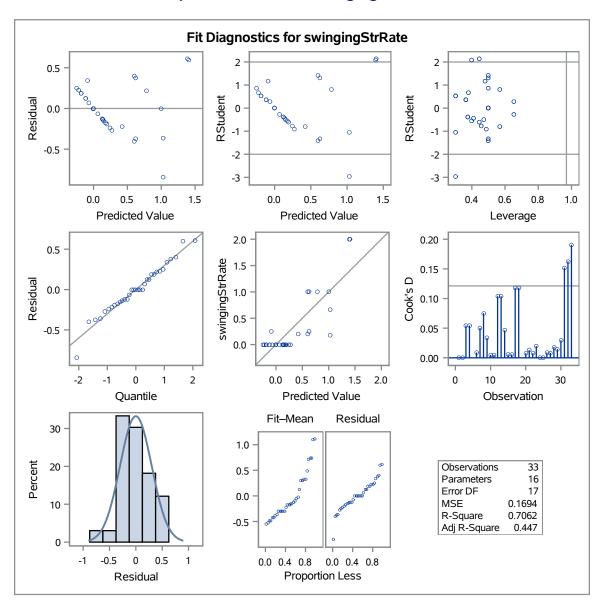
Dependent Variable: swingingStrRate

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	6.92288657	0.46152577	2.72	0.0249
Error	17	2.87982916	0.16940172		
Corrected Total	32	9.80271572			

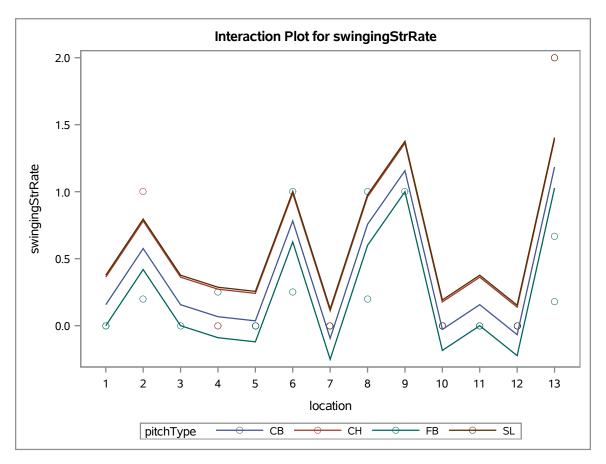
R-Square	Coeff Var	Root MSE	swingingStrRate Mean
0.706221	139.3271	0.411584	0.295409

Source	DF	Type III SS	Mean Square	F Value	Pr > F
location	12	6.37526772	0.53127231	3.14	0.0157
pitchType	3	0.68363847	0.22787949	1.35	0.2930

Dependent Variable: swingingStrRate



Dependent Variable: swingingStrRate



Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer

pitchType	swingingStrRate LSMEAN	LSMEAN Number
СВ	0.37223240	1
СН	0.57757084	2
FB	0.21549453	3
SL	0.59216441	4

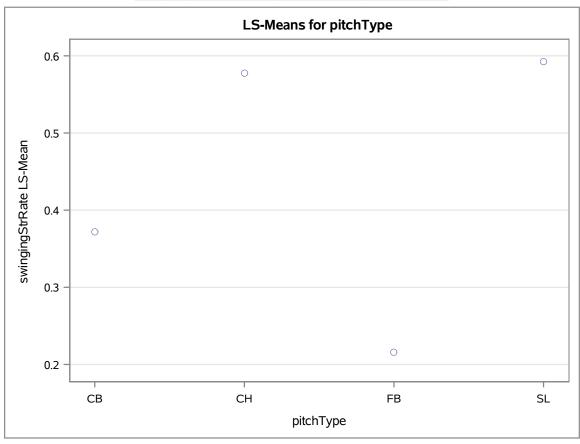
Least Squares Means for effect pitchType Pr > t for H0: LSMean(i)=LSMean(j) Dependent Variable: swingingStrRate							
i/j	1	1 2 3 4					
1		0.9428	0.9721	0.9457			
2	0.9428		0.3704	1.0000			
3	0.9721	0.3704		0.4595			
4	0.9457	1.0000	0.4595				

pitchType	swingingStrRate LSMEAN	95% Confidence Limits	
СВ	0.372232	-0.355084	1.099549
СН	0.577571	0.169196	0.985946
FB	0.215495	0.013010	0.417979
SL	0.592164	0.106747	1.077581

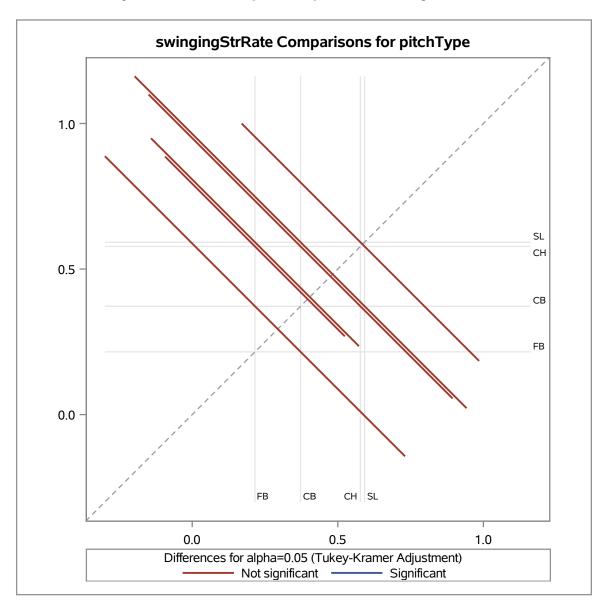
Le	Least Squares Means for Effect pitchType						
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)				
1	2	-0.205338	-1.249618	0.838941			
1	3	0.156738	-0.874374	1.187849			
1	4	-0.219932	-1.360122	0.920258			
2	3	0.362076	-0.255412	0.979564			

Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for Effect pitchType						
i	j	Difference Between Means	Confidence Limits for			
2	4	-0.014594	-0.830058	0.800871		
3	4	-0.376670	-1.090899	0.337559		



Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer



Swinging Strike Rate by Zone Zones 1-9 are inside strikezone, 10-13 are outside of zone

Pitch Location	Total Pitches	Total Swings	Total Misses	Swinging Strike Rate
1	5	3	0	0.00%
2	6	6	2	33.33%
3	2	2	0	0.00%
4	6	5	1	16.67%
5	7	5	0	0.00%
6	5	3	1	20.00%
7	3	2	0	0.00%
8	6	3	1	16.67%
9	1	1	1	100.0%
10	10	1	0	0.00%
11	4	1	0	0.00%
12	13	0	0	0.00%
13	16	2	2	12.50%

Swing and Miss Data by Pitch Type

Pitch Type	Total Pitches	Total Swings	Total Misses	Swinging Strike Rate
СВ	19	1	0	0.00%
СН	10	5	1	10.00%
FB	50	27	7	14.00%
SL	5	1	0	0.00%

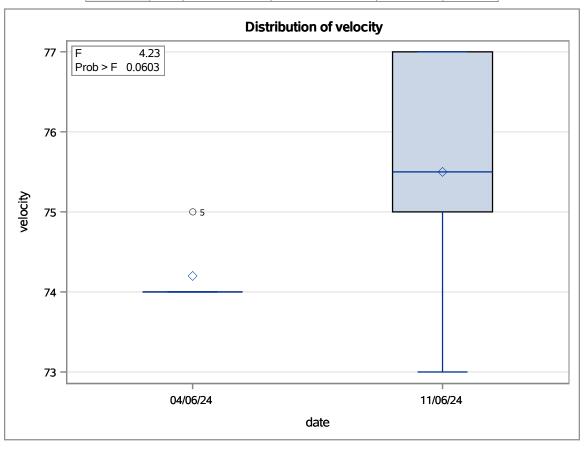
pitchType=CB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	5.63333333	5.63333333	4.23	0.0603
Error	13	17.30000000	1.33076923		
Corrected Total	14	22.93333333			

R-Square	Coeff Var	Root MSE	velocity Mean	
0.245640	1.536754	1.153590	75.06667	

Source	DF	TypeISS	Mean Square	F Value	Pr > F	
date	1	5.63333333	5.63333333	4.23	0.0603	

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	1	5.63333333	5.63333333	4.23	0.0603



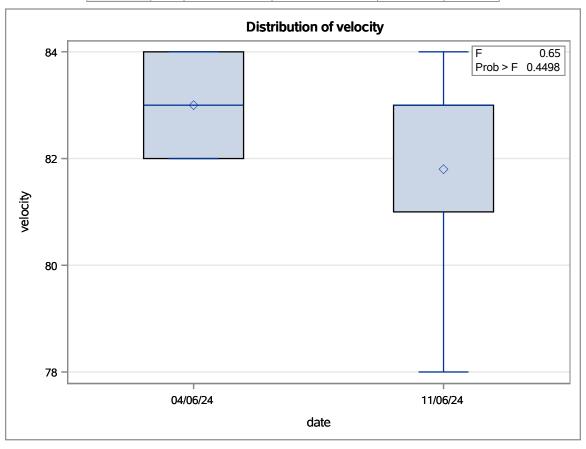
pitchType=CH

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.70000000	2.70000000	0.65	0.4498
Error	6	24.80000000	4.13333333		
Corrected Total	7	27.50000000			

R-Square Coeff Var		Root MSE	velocity Mean	
0.098182	2.471806	2.033060	82.25000	

Source	DF	TypeISS	Mean Square	F Value	Pr > F	
date	1	2.70000000	2.70000000	0.65	0.4498	

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	1	2.70000000	2.70000000	0.65	0.4498



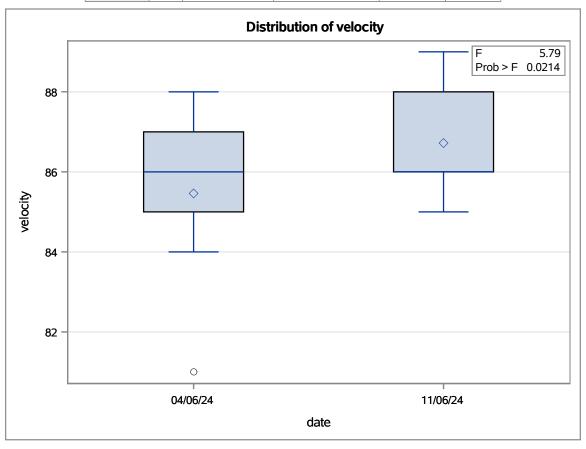
pitchType=FB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	13.54502024	13.54502024	5.79	0.0214
Error	36	84.27076923	2.34085470		
Corrected Total	37	97.81578947			

R-Square	Coeff Var	Root MSE	velocity Mean	
0.138475	1.773084	1.529985	86.28947	

Source	DF	Type ISS	Mean Square	F Value	Pr > F	
date	1	13.54502024	13.54502024	5.79	0.0214	

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	1	13.54502024	13.54502024	5.79	0.0214



pitchType=SL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4.08333333	4.08333333	12.25	0.0728
Error	2	0.66666667	0.33333333		
Corrected Total	3	4.75000000			

R-Square	Coeff Var	Root MSE	velocity Mean	
0.859649	0.762179	0.577350	75.75000	

Source	DF	TypeISS	Mean Square	F Value	Pr > F
date	1	4.08333333	4.08333333	12.25	0.0728

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	1	4.08333333	4.08333333	12.25	0.0728

