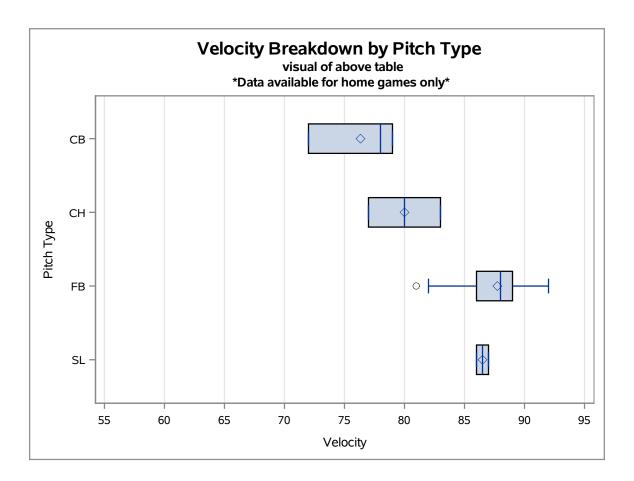
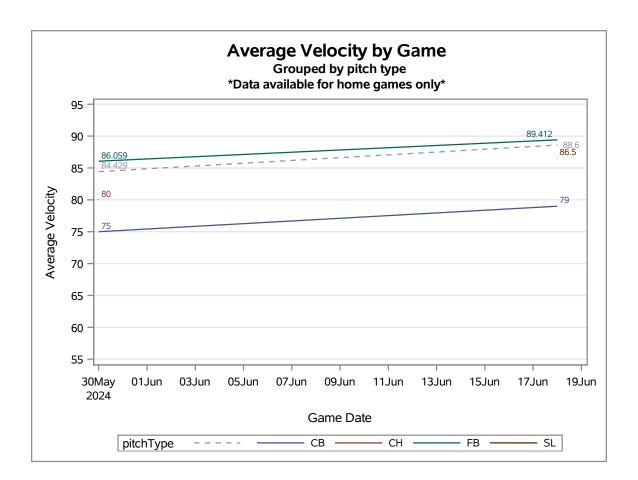
Velocity Breakdown by Pitch Type *Data available for home games only*

Analysis Variable : velocity							
pitchType	N Obs	Mean	Maximum				
СВ	3	3	72.0	76.3	79.0		
СН	2	2	77.0	80.0	83.0		
FB	34	34	81.0	87.7	92.0		
SL	2	2	86.0	86.5	87.0		





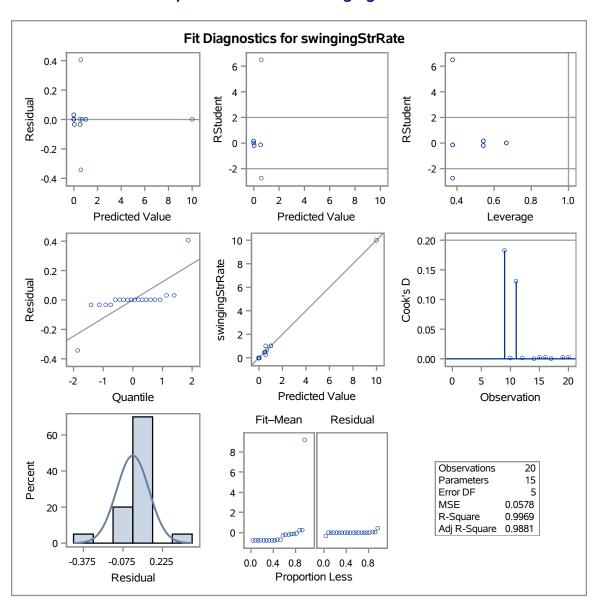
Dependent Variable: swingingStrRate

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	92.08420139	6.57744296	113.77	<.0001
Error	5	0.28906250	0.05781250		
Corrected Total	19	92.37326389			

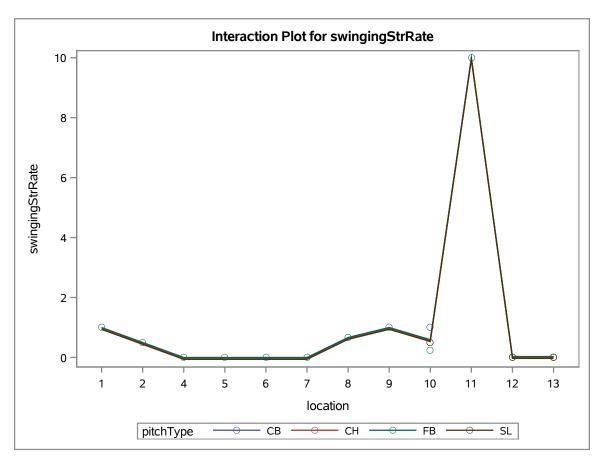
R-Square	Coeff Var	Root MSE	swingingStrRate Mean
0.996871	31.19251	0.240442	0.770833

Source	DF	Type III SS	Mean Square	F Value	Pr > F
location	11	87.73016827	7.97546984	137.95	<.0001
pitchType	3	0.00781250	0.00260417	0.05	0.9858

Dependent Variable: swingingStrRate



Dependent Variable: swingingStrRate



Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer

pitchType	swingingStrRate LSMEAN	LSMEAN Number
СВ	1.12065972	1
СН	1.12065972	2
FB	1.15190972	3
SL	1.08940972	4

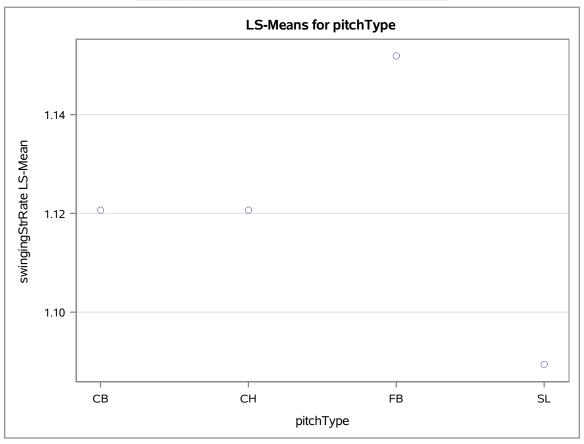
Least Squares Means for effect pitchType Pr > t for H0: LSMean(i)=LSMean(j) Dependent Variable: swingingStrRate								
i/j	1	1 2 3 4						
1		1.0000	0.9989	0.9989				
2	1.0000		0.9995	0.9995				
3	0.9989	0.9995		0.9812				
4	0.9989	0.9995	0.9812					

pitchType	swingingStrRate LSMEAN	95% Confidence Limits	
СВ	1.120660	0.565023	1.676296
СН	1.120660	0.370052	1.871267
FB	1.151910	0.978195	1.325625
SL	1.089410	0.672956	1.505864

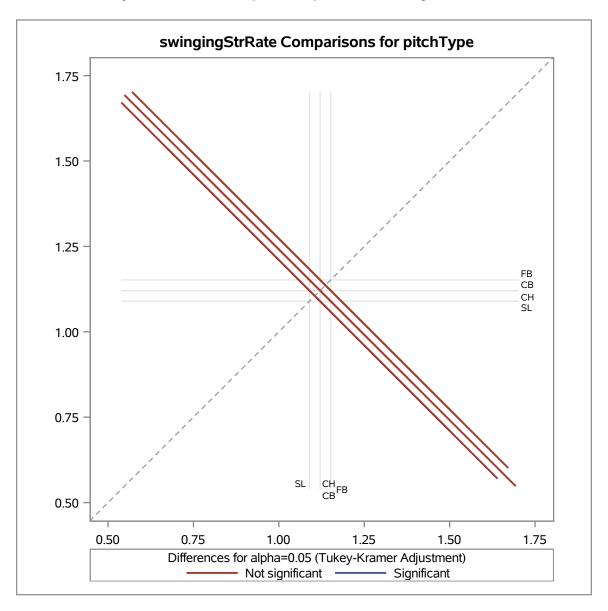
Le	Least Squares Means for Effect pitchType							
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)					
1	2	0	-1.145355	1.145355				
1	3	-0.031250	-0.861138	0.798638				
1	4	0.031250	-0.798638	0.861138				
2	3	-0.031250	-1.132817	1.070317				

Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer

Least Squares Means for Effect pitchType							
i	j	Difference Between Means	Simultane Confidence LSMean(i)-	Limits for			
2	4	0.031250	-1.070317	1.132817			
3	4	0.062500	-0.564837	0.689837			



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	1	1	1	100.0%
2	2	2	1	50.00%
4	4	2	0	0.00%
5	4	3	0	0.00%
6	1	0	0	0.00%
7	3	1	0	0.00%
8	3	3	2	66.67%
9	1	1	1	100.0%
10	9	2	2	22.22%
11	1	1	10	1000%
12	8	0	0	0.00%
13	13	0	0	0.00%

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Swing and Miss Data by Pitch Type

Pitch Type	Total Pitches	Total Swings	Total Misses	Swinging Strike Rate
СВ	3	0	0	0.00%
СН	3	0	0	0.00%
FB	40	15	16	40.00%
SL	4	1	1	25.00%

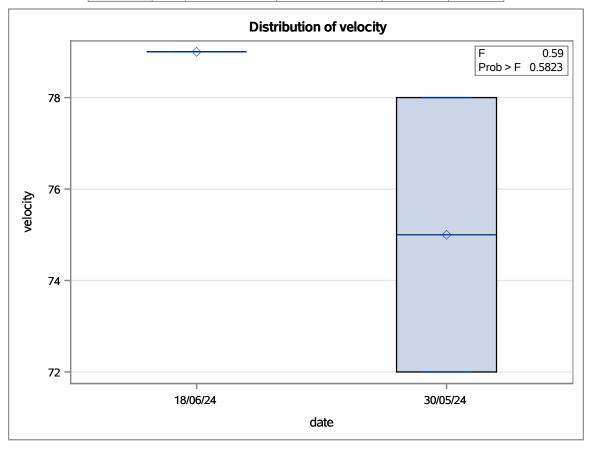
pitchType=CB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	10.66666667	10.66666667	0.59	0.5823
Error	1	18.00000000	18.00000000		
Corrected Total	2	28.66666667			

R-Square	Coeff Var	Root MSE	velocity Mean	
0.372093	5.558045	4.242641	76.33333	

Source	DF	TypeISS	Mean Square	F Value	Pr > F
date	1	10.66666667	10.66666667	0.59	0.5823

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	1	10.66666667	10.66666667	0.59	0.5823



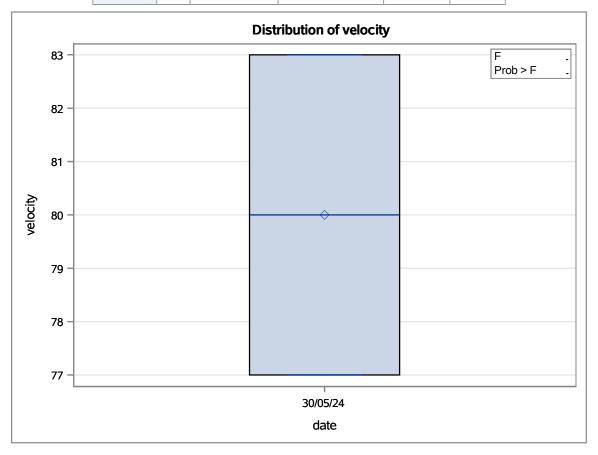
pitchType=CH

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	0	0.00000000		•	
Error	1	18.00000000	18.00000000		
Corrected Total	1	18.00000000			

R-Square	Coeff Var	Root MSE	velocity Mean
0.000000	5.303301	4.242641	80.00000

Source	DF	DF Type ISS Mean Square		F Value	Pr > F
date	0	0			

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	0	0			



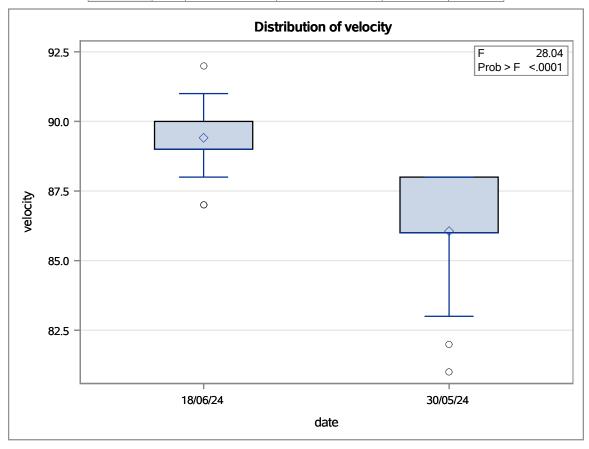
pitchType=FB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	95.5588235	95.5588235	28.04	<.0001
Error	32	109.0588235	3.4080882		
Corrected Total	33	204.6176471			

R-Square	Coeff Var	Root MSE	velocity Mean
0.467012	2.104171	1.846101	87.73529

Source	DF	TypeISS	Mean Square	F Value	Pr > F	
date	1	95.55882353	95.55882353	28.04	<.0001	

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	1	95.55882353	95.55882353	28.04	<.0001



pitchType=SL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	0	0.00000000		•	
Error	1	0.50000000	0.50000000		
Corrected Total	1	0.50000000			

R-Square	Coeff Var	Root MSE	velocity Mean	
0.000000	0.817464	0.707107	86.50000	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
date	0	0		•	

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	0	0			

