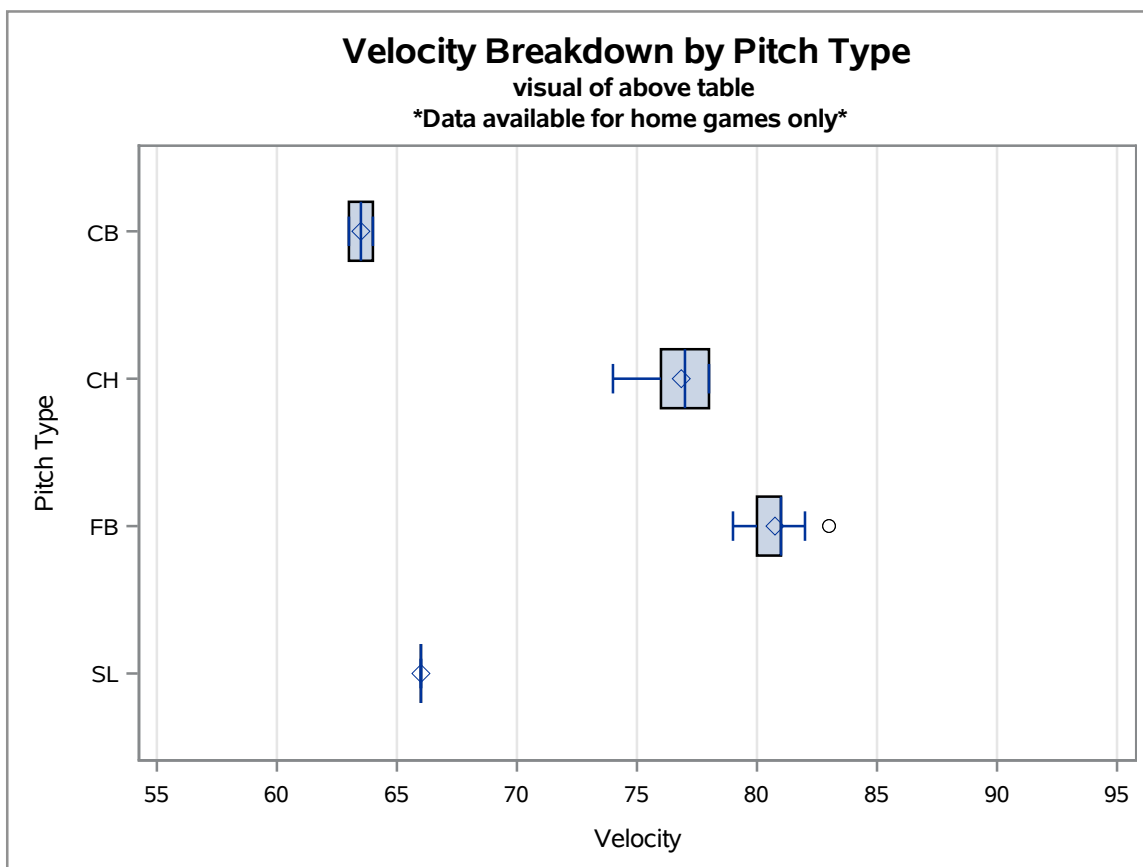


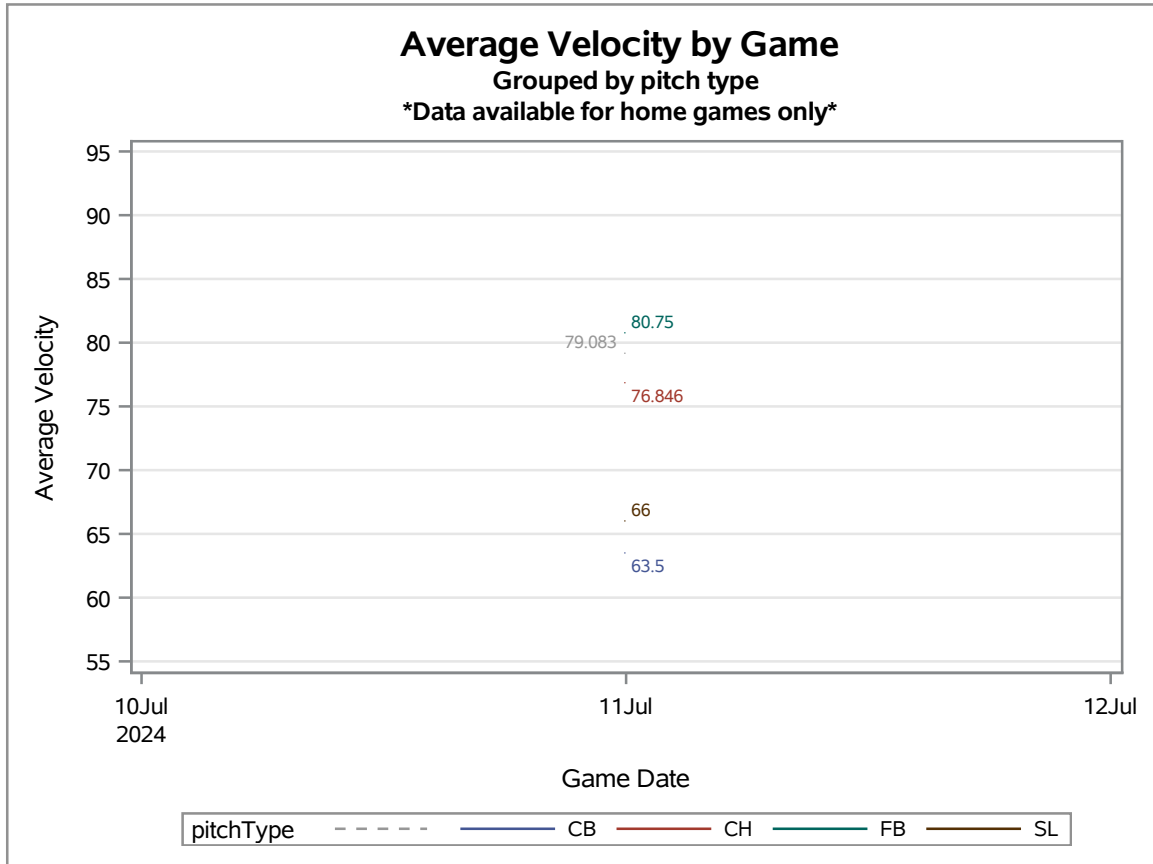
Velocity Breakdown by Pitch Type

Data available for home games only

1

Analysis Variable : velocity					
pitchType	N Obs	N	Minimum	Mean	Maximum
CB	2	2	63.0	63.5	64.0
CH	13	13	74.0	76.8	78.0
FB	44	44	79.0	80.8	83.0
SL	1	1	66.0	66.0	66.0





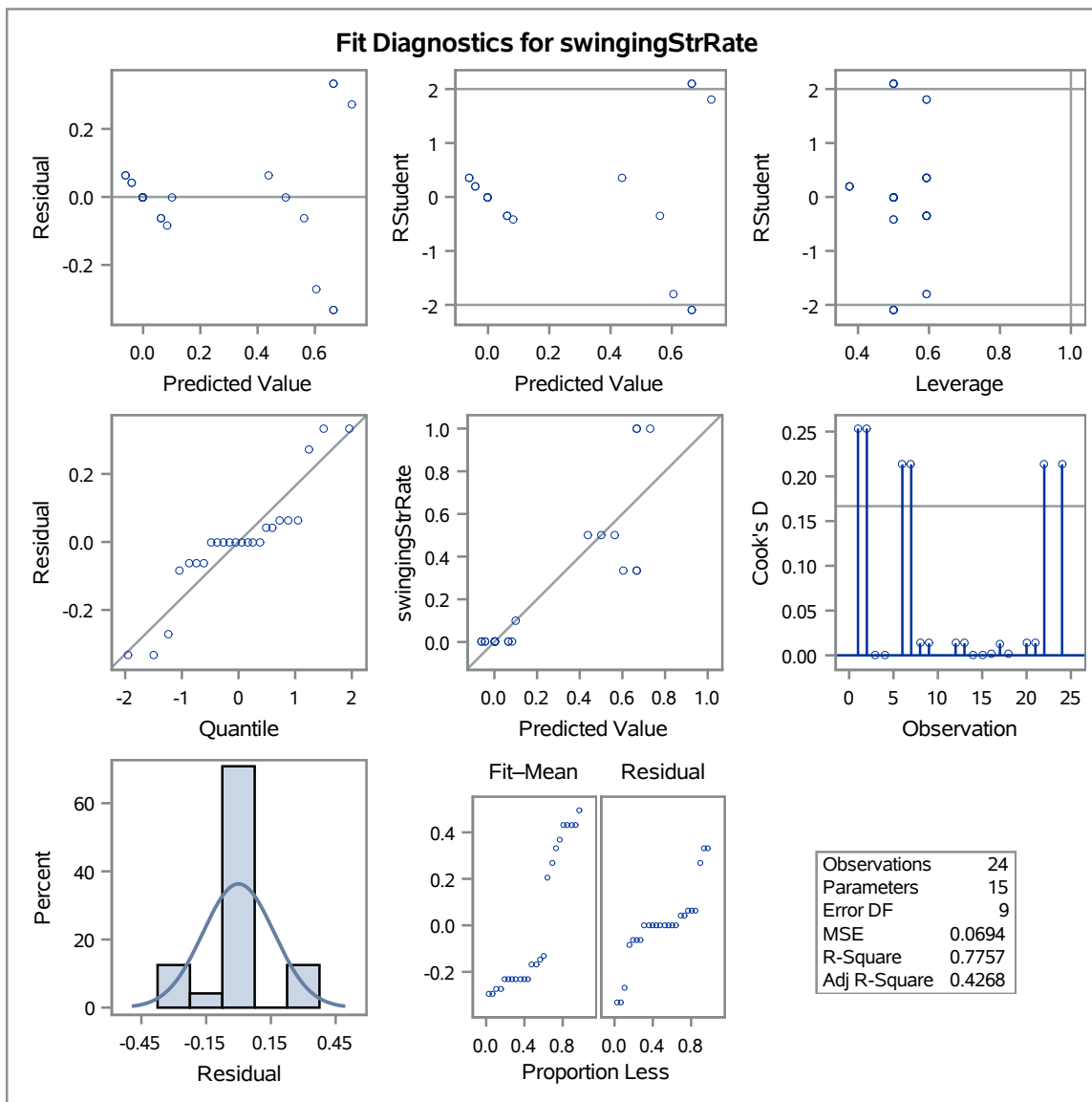
Dependent Variable: swingingStrRate

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	2.16166667	0.15440476	2.22	0.1152
Error	9	0.62500000	0.06944444		
Corrected Total	23	2.78666667			

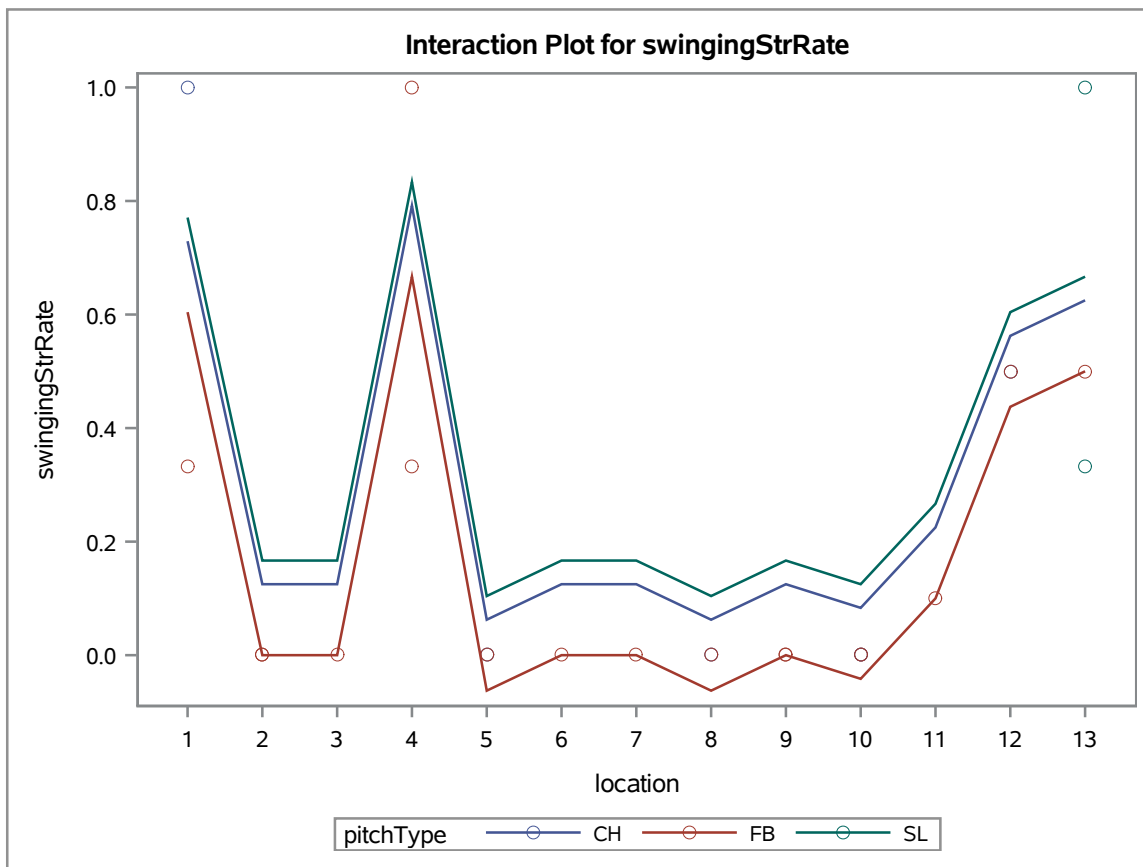
R-Square	Coeff Var	Root MSE	swingingStrRate Mean
0.775718	112.9385	0.263523	0.233333

Source	DF	Type III SS	Mean Square	F Value	Pr > F
location	12	1.67918301	0.13993192	2.02	0.1494
pitchType	2	0.06018519	0.03009259	0.43	0.6612

Dependent Variable: swingingStrRate



Dependent Variable: swingingStrRate



Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

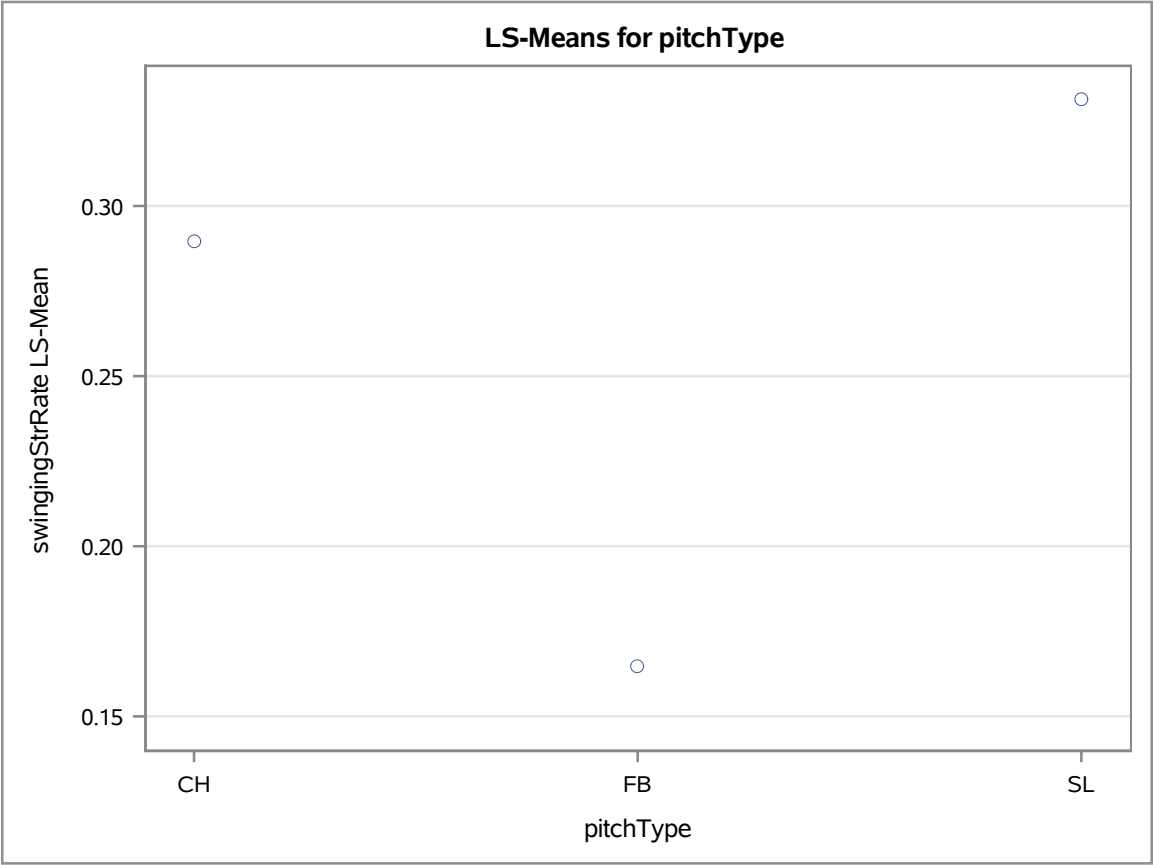
pitchType	swingingStrRate LSMEAN	LSMEAN Number
CH	0.28974359	1
FB	0.16474359	2
SL	0.33141026	3

Least Squares Means for effect pitchType Pr > t for H0: LSMean(i)=LSMean(j) Dependent Variable: swingingStrRate			
i/j	1	2	3
1		0.7270	0.9927
2	0.7270		0.8654
3	0.9927	0.8654	

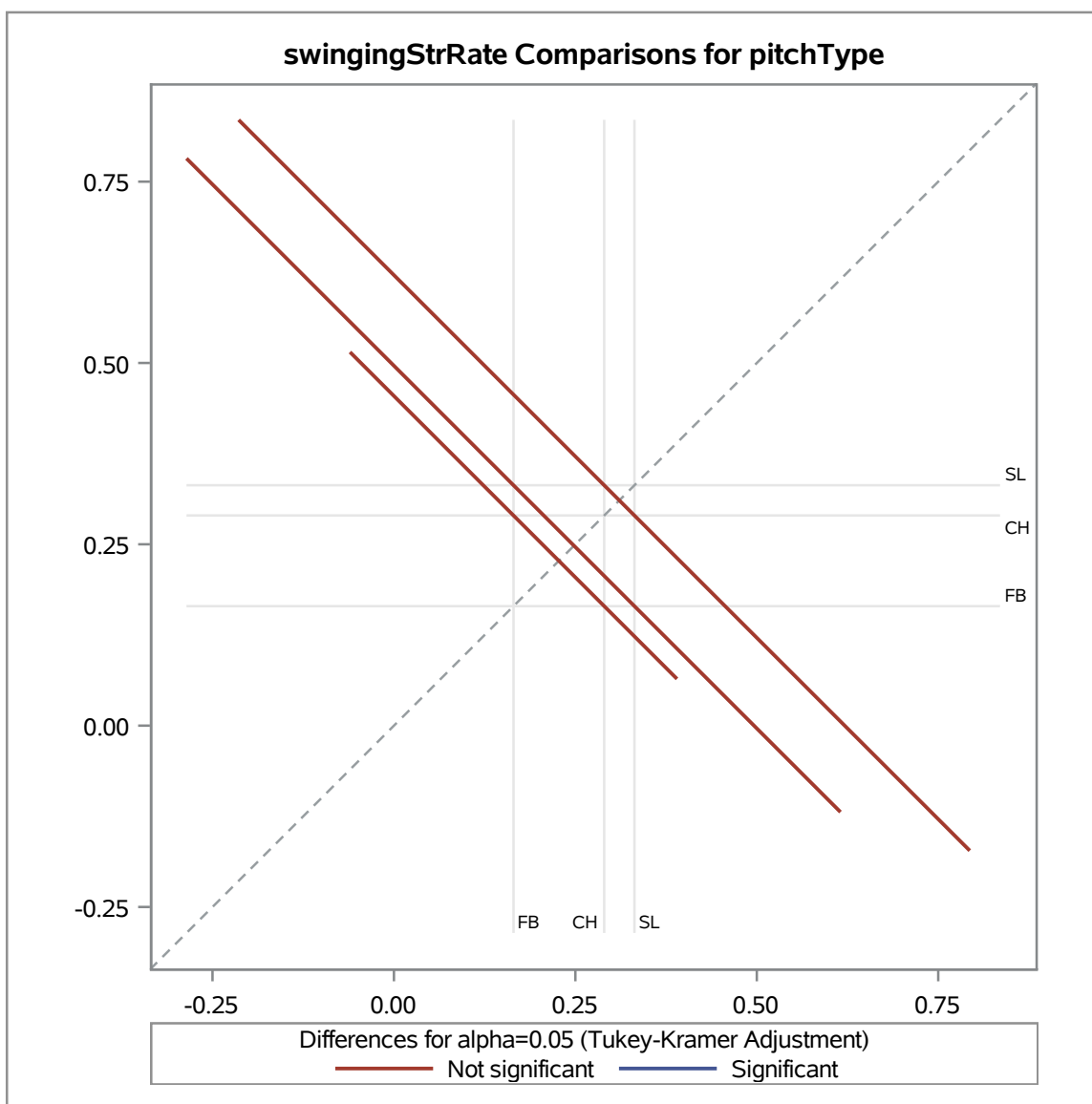
pitchType	swingingStrRate LSMEAN	95% Confidence Limits	
CH	0.289744	-0.039337	0.618824
FB	0.164744	0.013522	0.315965
SL	0.331410	-0.376582	1.039403

Least Squares Means for Effect pitchType				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
1	2	0.125000	-0.325548	0.575548
1	3	-0.041667	-1.049122	0.965789
2	3	-0.166667	-1.067762	0.734429

Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer



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

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Pitch Location	Total Pitches	Total Swings	Total Misses	Swinging Strike Rate
1	4	3	2	50.00%
2	3	1	0	0.00%
3	3	2	0	0.00%
4	4	2	1	25.00%
5	3	3	0	0.00%
6	5	4	0	0.00%
7	1	1	0	0.00%
8	3	2	0	0.00%
9	4	2	0	0.00%
10	13	1	0	0.00%
11	10	1	1	10.00%
12	4	2	2	50.00%
13	6	1	1	16.67%

Swing and Miss Data by Pitch Type

Pitch Type	Total Pitches	Total Swings	Total Misses	Swinging Strike Rate
CB	2	0	0	0.00%
CH	14	4	2	14.29%
FB	46	20	4	8.70%
SL	1	1	1	100.0%

Data available for home games only

Dependent Variable: velocity

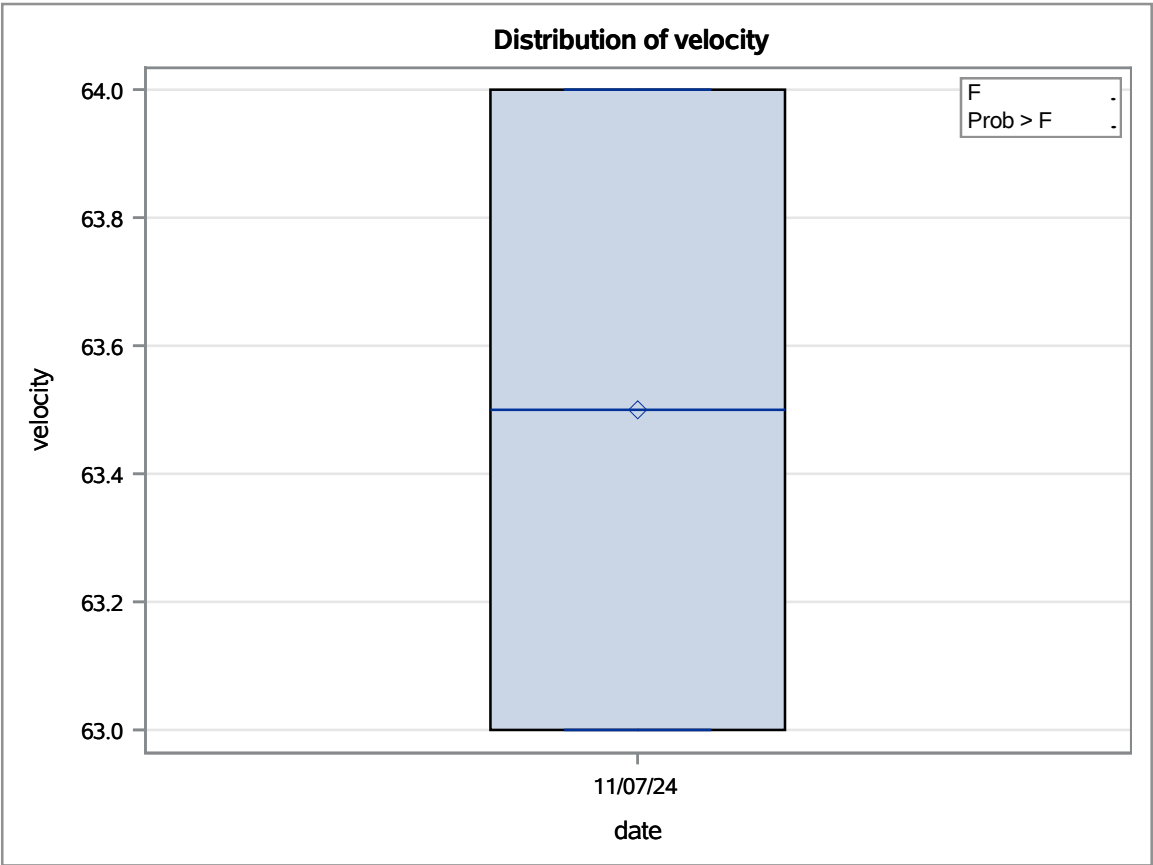
pitchType=CB

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	1.113554	0.707107	63.50000

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	.	.	.



Data available for home games only

Dependent Variable: velocity

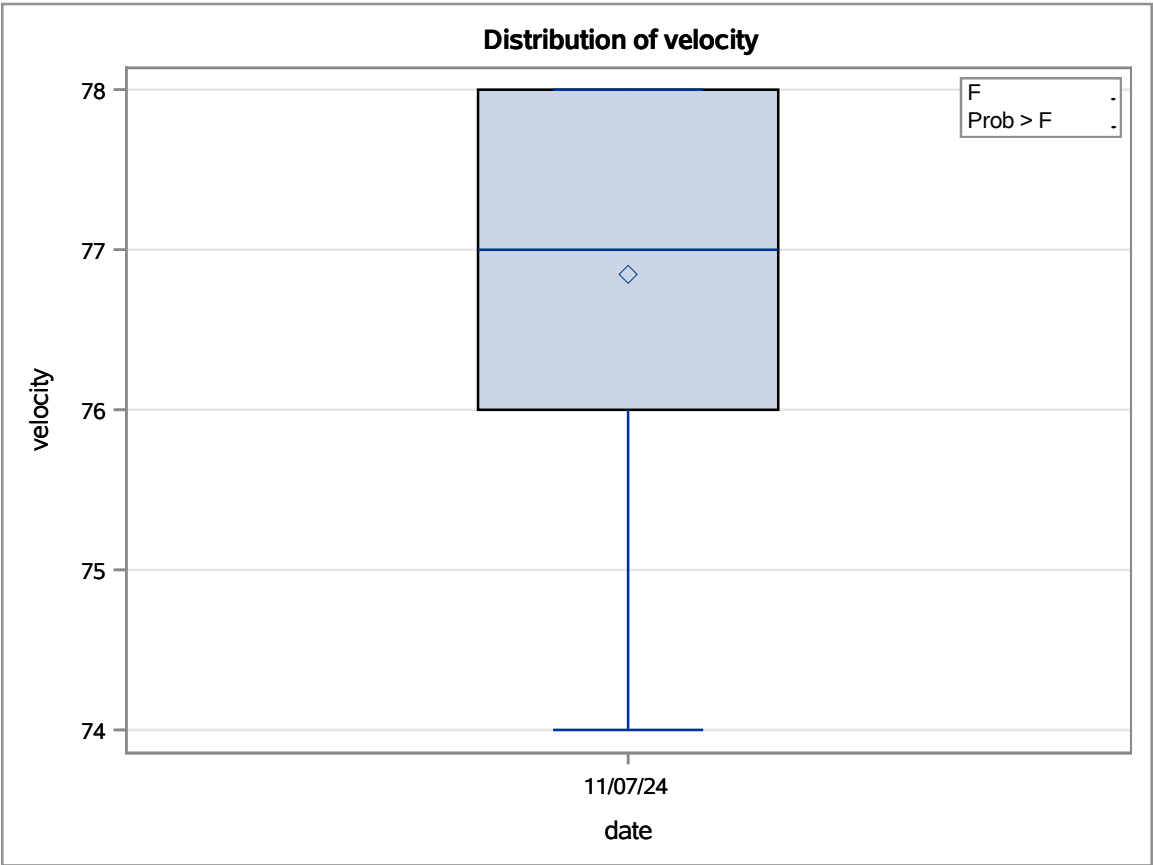
pitchType=CH

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	0	0.00000000	.	.	.
Error	12	19.69230769	1.64102564		
Corrected Total	12	19.69230769			

R-Square	Coeff Var	Root MSE	velocity Mean
0.000000	1.667000	1.281025	76.84615

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	.	.	.



Data available for home games only

Dependent Variable: velocity

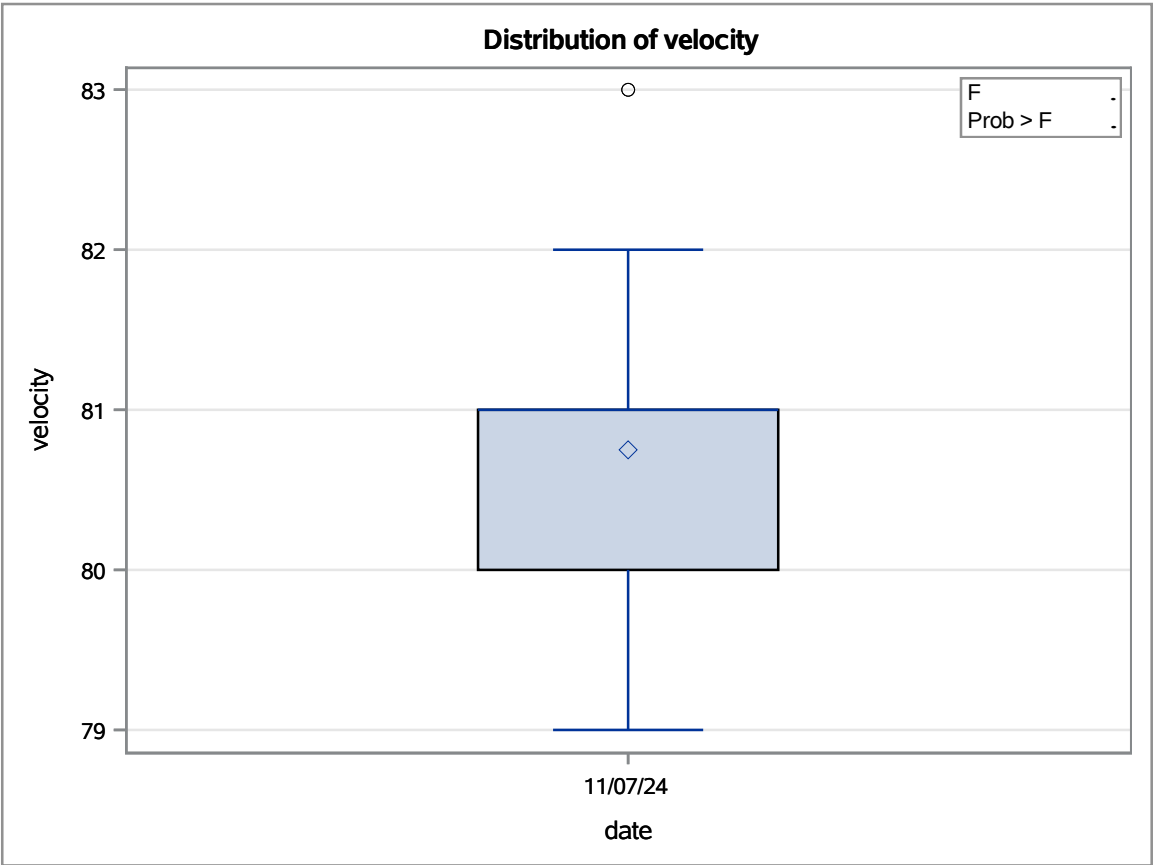
pitchType=FB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	0	0.00000000	.	.	.
Error	43	42.25000000	0.98255814		
Corrected Total	43	42.25000000			

R-Square	Coeff Var	Root MSE	velocity Mean
0.000000	1.227543	0.991241	80.75000

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	.	.	.



Data available for home games only

Dependent Variable: velocity

pitchType=SL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	0	0	.	.	.
Error	0	0	.		
Corrected Total	0	0			

R-Square	Coeff Var	Root MSE	velocity Mean
0.000000	.	.	66.00000

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	.	.	.

