Velocity Breakdown by Pitch Type

Data available for home games only

	Analysis Variable : velocity				
pitchType	N Obs	N	Minimum	Mean	Maximum
CB	34	34	75.0	77.6	82.0
CH	60	60	77.0	80.5	83.0
FB	133	133	78.0	85.2	90.0
SL	4	4	75.0	76.5	79.0

Velocity Breakdown by Pitch Type
visual of above table
Data available for home games only

Average Velocity by Game
Grouped by pitch type
Data available for home games only
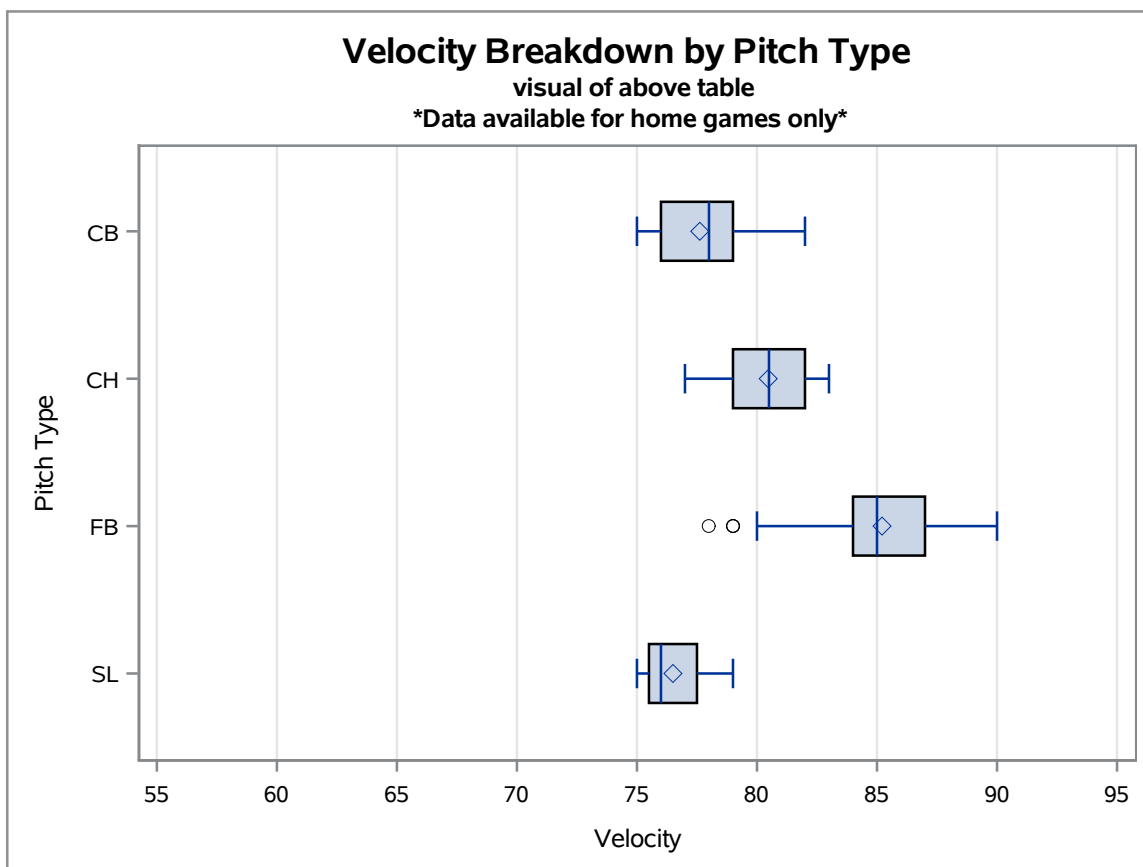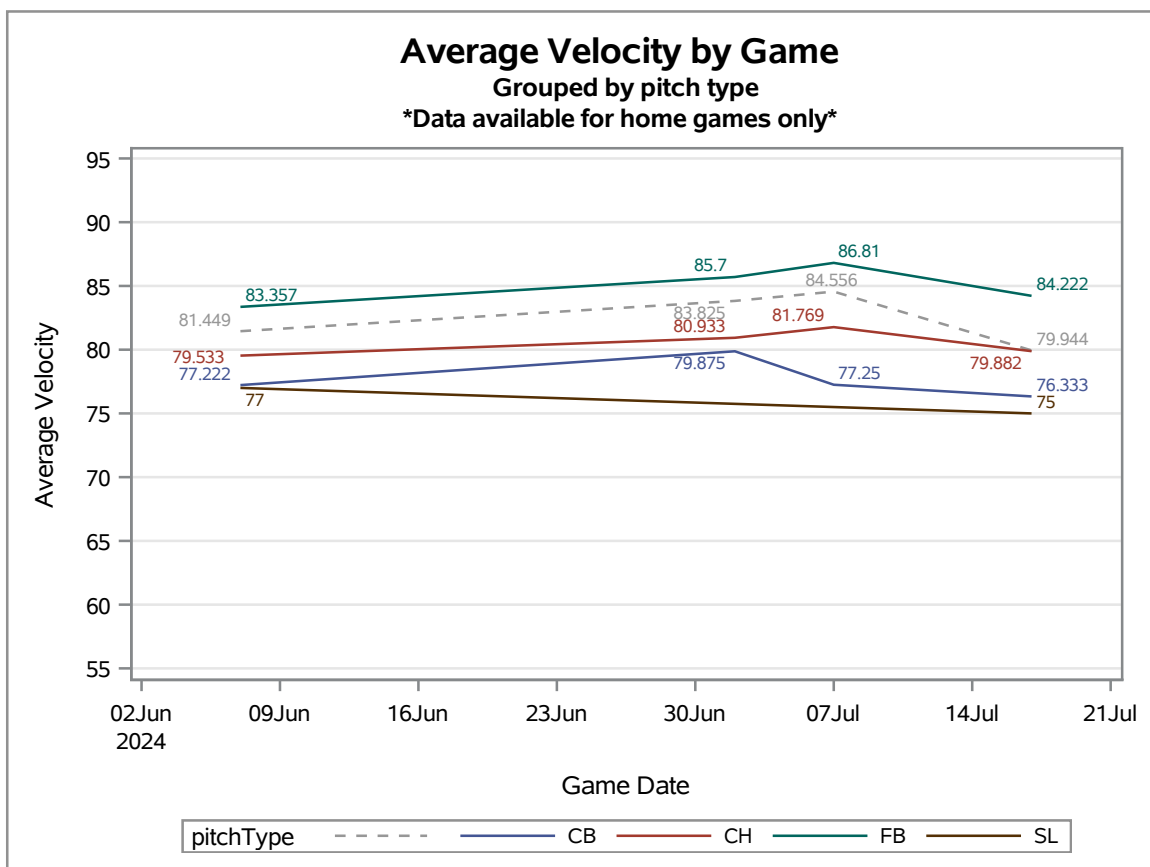
Swinging Strike Rate by Zone
Zones 1-9 are inside strikezone, 10-13 are outside of zone

Pitch Location	Total Pitches	Total Swings	Total Misses	Swinging Strike Rate
1	7	4	0	0.00%
2	8	8	3	37.50%
3	7	6	1	14.29%
4	17	7	2	11.76%
5	19	15	4	21.05%
6	24	12	3	12.50%
7	9	8	2	22.22%
8	17	14	3	17.65%
9	15	11	5	33.33%
10	25	3	1	4.00%
11	17	4	2	11.76%
12	33	7	7	21.21%
13	42	10	10	23.81%

Pitch Type	Total Pitches	Total Swings	Total Misses	Swinging Strike Rate
CB	35	20	10	28.57%
CH	63	32	13	20.63%
FB	136	56	19	13.97%
SL	6	1	1	16.67%

Regression Analysis of Velocity by Pitch Type
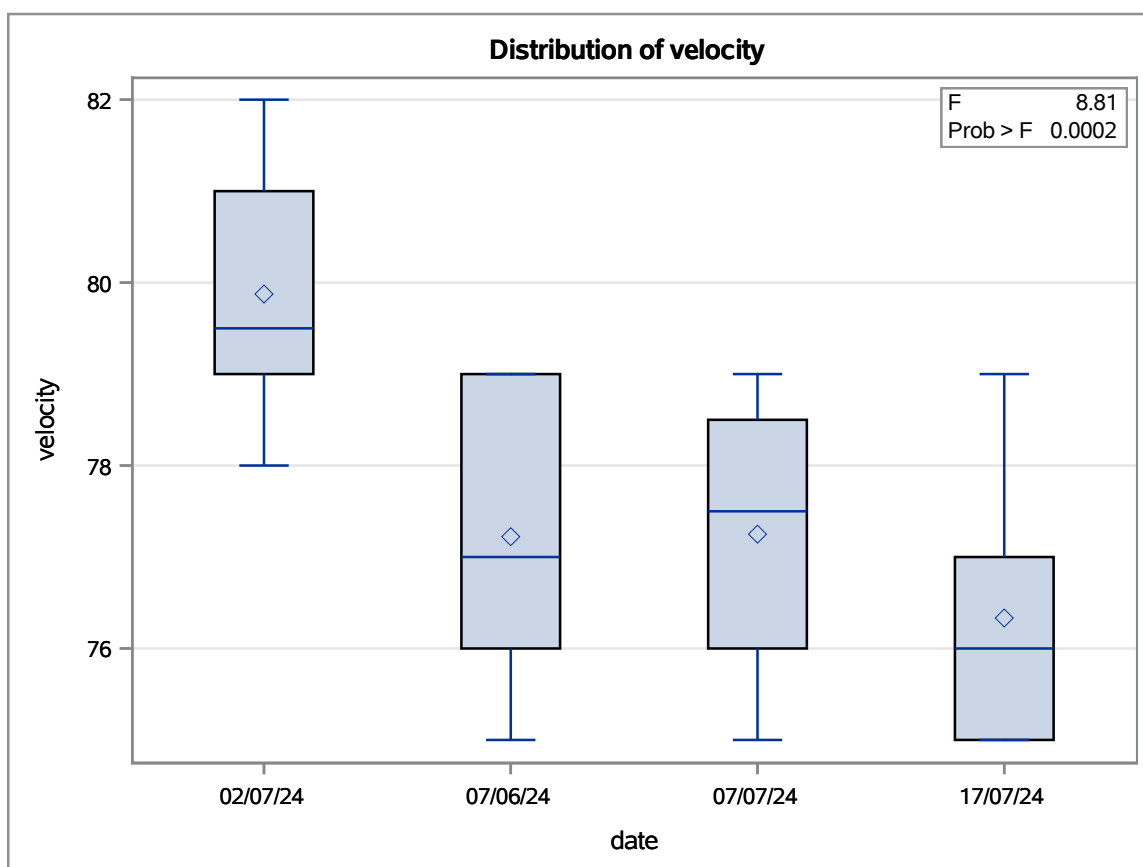## *Data available for home games only*

Dependent Variable: velocity

pitchType=CB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	58.0988562	19.3662854	8.81	0.0002
Error	30	65.9305556	2.1976852		
Corrected Total	33	124.0294118			

R-Square	Coeff Var	Root MSE	velocity Mean
0.468428	1.909951	1.482459	77.61765

Source	DF	Type I SS	Mean Square	F Value	Pr > F
date	3	58.09885621	19.36628540	8.81	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	3	58.09885621	19.36628540	8.81	0.0002

Distribution of velocity

F 8.81
Prob > F 0.0002

Regression Analysis of Velocity by Pitch Type
Data available for home games only

Dependent Variable: velocity

pitchType=CH

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	44.1942685	14.7314228	7.19	0.0004
Error	56	114.7390649	2.0489119		
Corrected Total	59	158.9333333			

R-Square	Coeff Var	Root MSE	velocity Mean
0.278068	1.778876	1.431402	80.46667

Source	DF	Type I SS	Mean Square	F Value	Pr > F
date	3	44.19426848	14.73142283	7.19	0.0004

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	3	44.19426848	14.73142283	7.19	0.0004
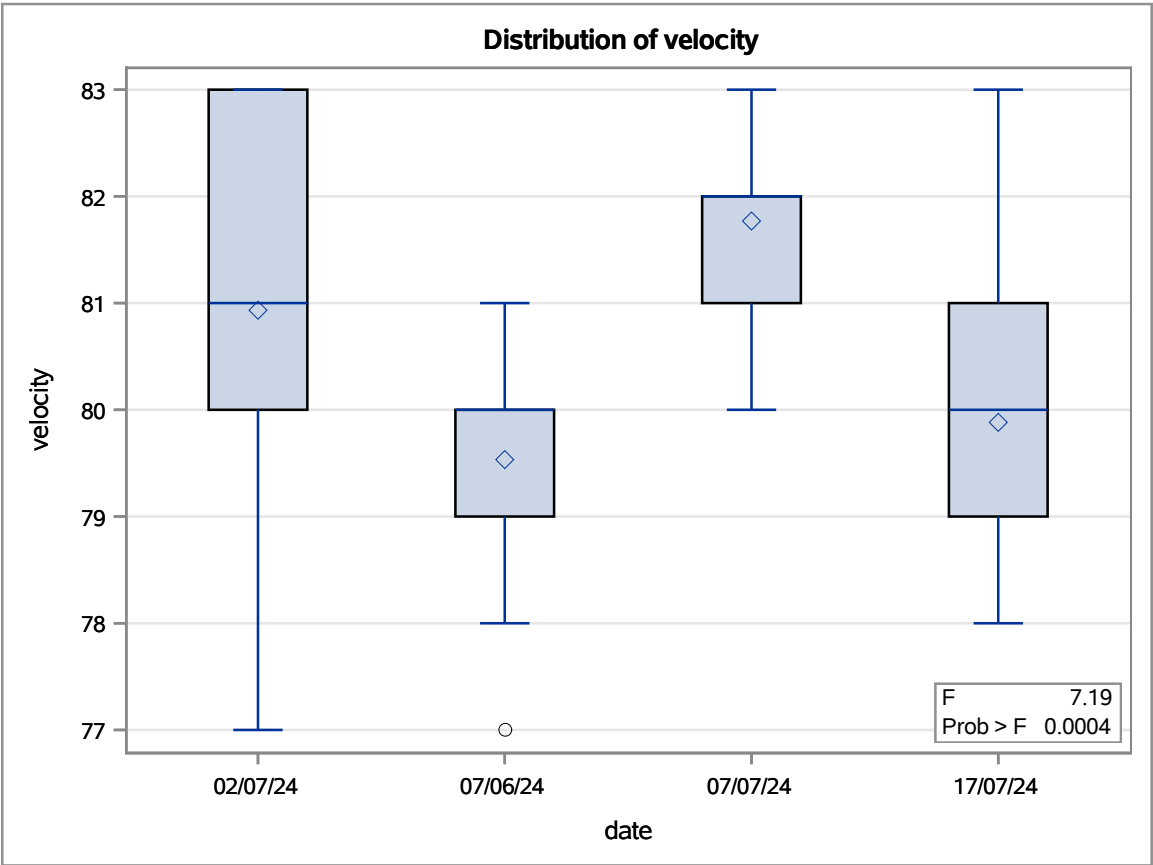
Distribution of velocity

F   7.19
Prob > F   0.0004

Regression Analysis of Velocity by Pitch Type
Data available for home games only

Dependent Variable: velocity

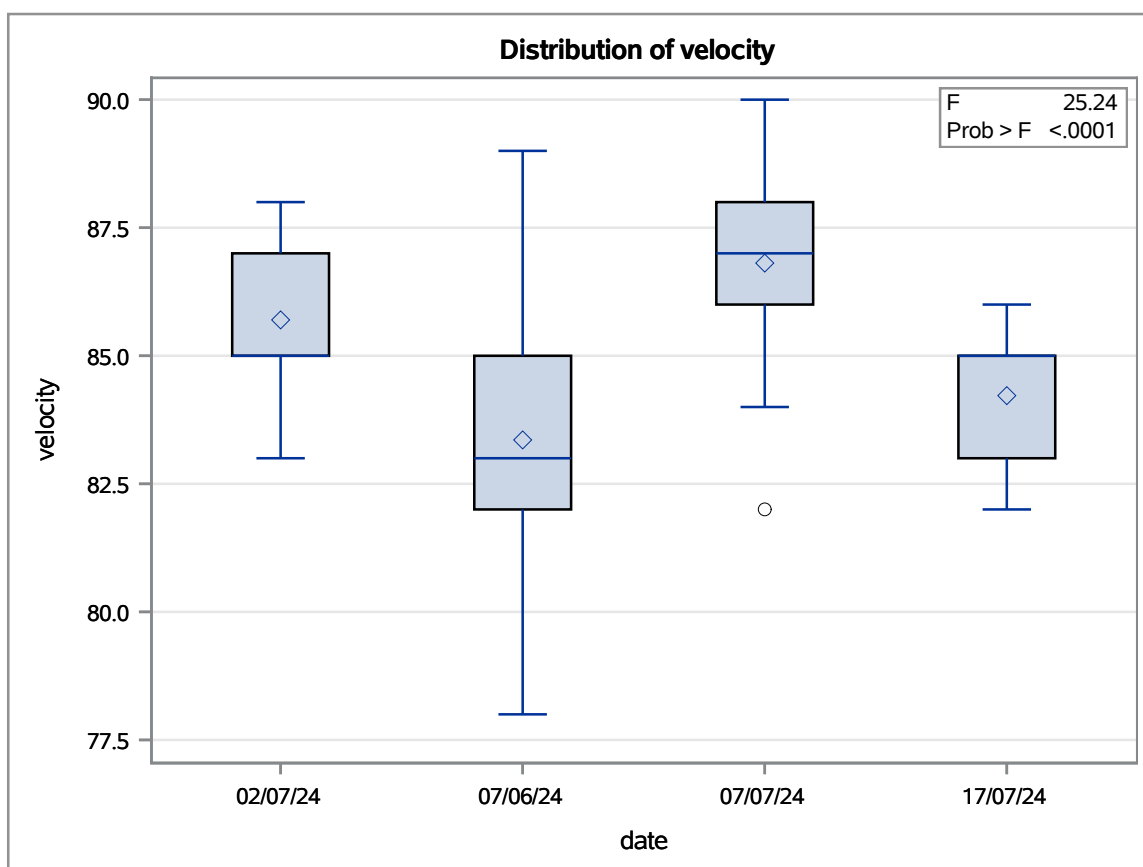### pitchType=FB

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	270.0306600	90.0102200	25.24	<.0001
Error	129	460.0746032	3.5664698		
Corrected Total	132	730.1052632			

R-Square	Coeff Var	Root MSE	velocity Mean
0.369852	2.216287	1.888510	85.21053

Source	DF	Type I SS	Mean Square	F Value	Pr > F
date	3	270.0306600	90.0102200	25.24	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	3	270.0306600	90.0102200	25.24	<.0001

Distribution of velocity

Data available for home games only

Dependent Variable: velocity

pitchType=SL

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3.00000000	3.00000000	1.00	0.4226
Error	2	6.00000000	3.00000000		
Corrected Total	3	9.00000000			

R-Square	Coeff Var	Root MSE	velocity Mean
0.333333	2.264119	1.732051	76.50000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
date	1	3.00000000	3.00000000	1.00	0.4226

Source	DF	Type III SS	Mean Square	F Value	Pr > F
date	1	3.00000000	3.00000000	1.00	0.4226

Distribution of velocity