

The population of interest is the top one hundred 2021 MLB hitters based on WAR and their associated salary.

The question I was wondering was Is there a relationship between MLB players WAR (wins above replacement) in 2021 and their salary in 2021.

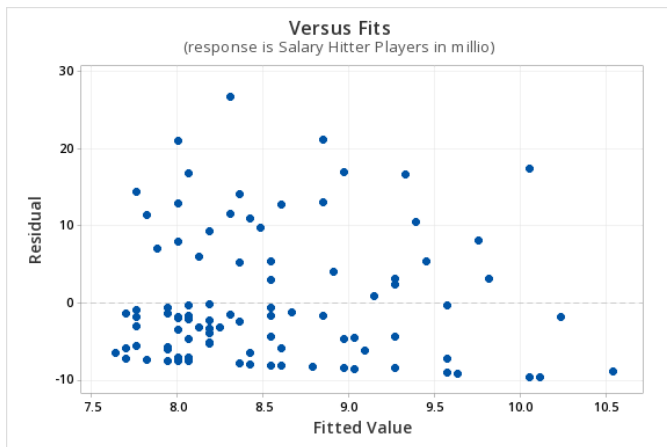
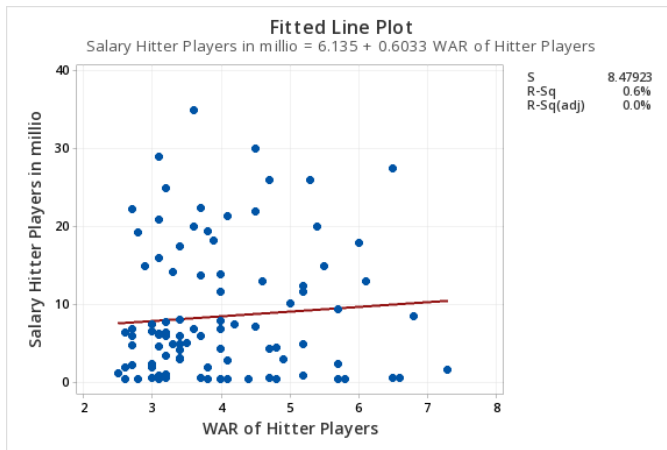
Model Summary

S	R-sq	R-sq(adj)
8.47923	0.62%	0.00%

R=7.87%

Coefficient of determination is (r^2) is 0.62%

Salary of Hitters in Millions = $0.6033(\text{War of Hitters}) + 6.135$



Analysis of Variance

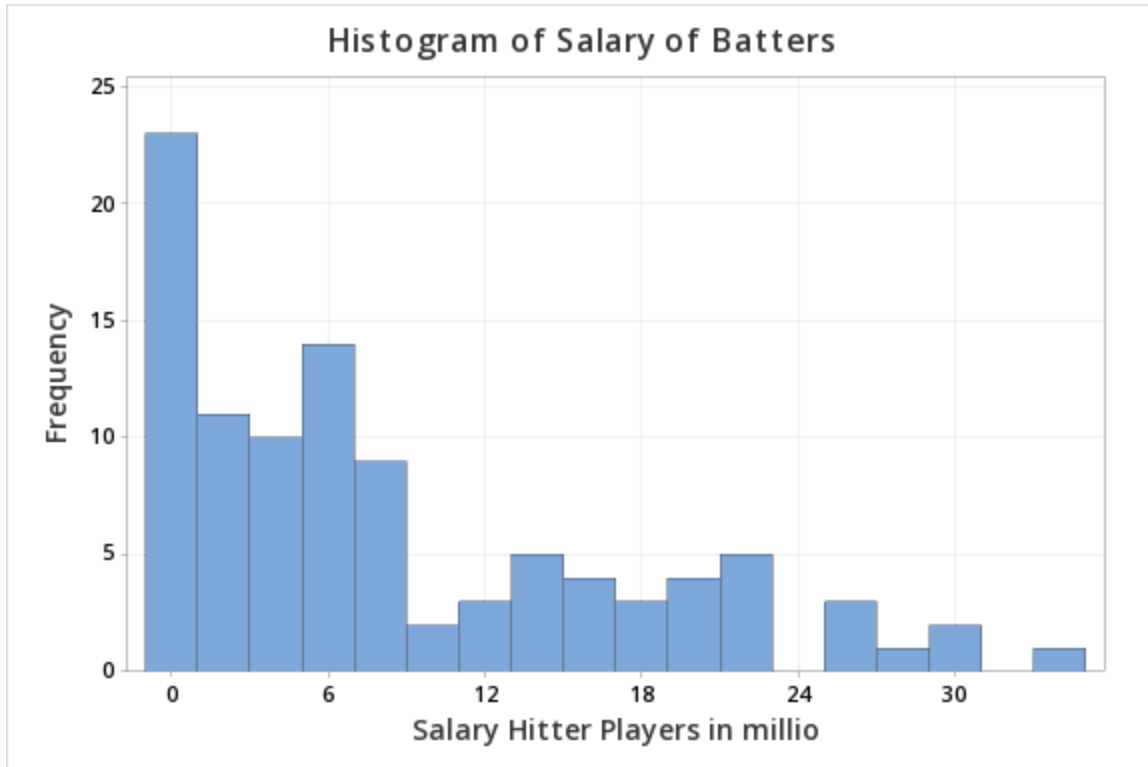
Source	DF	SS	MS	F	P
Regression	1	43.76	43.7626	0.61	0.437
Error	98	7045.93	71.8973		
Total	99	7089.70			

WAR of Hitter Players	Salary Hitter Players in million
7.3	1.7143
6.8	8.5000
6.6	0.6054
6.5	0.6010
6.5	27.5385
6.1	13.0000
6.0	18.0000
5.8	0.5770
5.7	9.4000
5.7	0.5878
5.7	2.5000
5.5	15.0000
5.4	20.0000
5.3	26.0000
5.2	0.9470
5.2	11.7000
5.2	5.0000
5.2	12.5000
5.0	10.1750
4.9	3.0000
4.8	0.5905
4.8	4.5750
4.7	26.0000
4.7	4.3333
4.7	0.6243
4.6	13.0000
4.5	22.0000
4.5	30.0000
4.5	7.2500
4.4	0.5849
4.2	7.5000
4.1	21.4000
4.1	0.5875
4.1	0.5900
4.1	2.8500

4.0	4.3250
4.0	14.0000
4.0	7.0000
4.0	11.6500
4.0	0.5705
4.0	8.0000
4.0	0.5905
3.9	18.2500
3.8	2.0000
3.8	19.5000
3.8	0.5812
3.7	13.7500
3.7	0.6768
3.7	0.5975
3.7	22.5000
3.7	6.0000
3.6	20.0000
3.6	6.9250
3.6	35.0000
3.5	5.1250
3.4	5.0000
3.4	4.3000
3.4	3.1500
3.4	8.0500
3.4	6.0000
3.4	17.5000
3.4	3.0100
3.3	5.0000
3.3	14.2500
3.2	0.6090
3.2	6.0000
3.2	6.5000
3.2	0.5751
3.2	3.5000
3.2	0.5771
3.2	7.8000
3.2	1.0500
3.2	25.0000
3.1	1.0000
3.1	0.5905
3.1	16.0000
3.1	6.2000
3.1	16.0000
3.1	4.7000

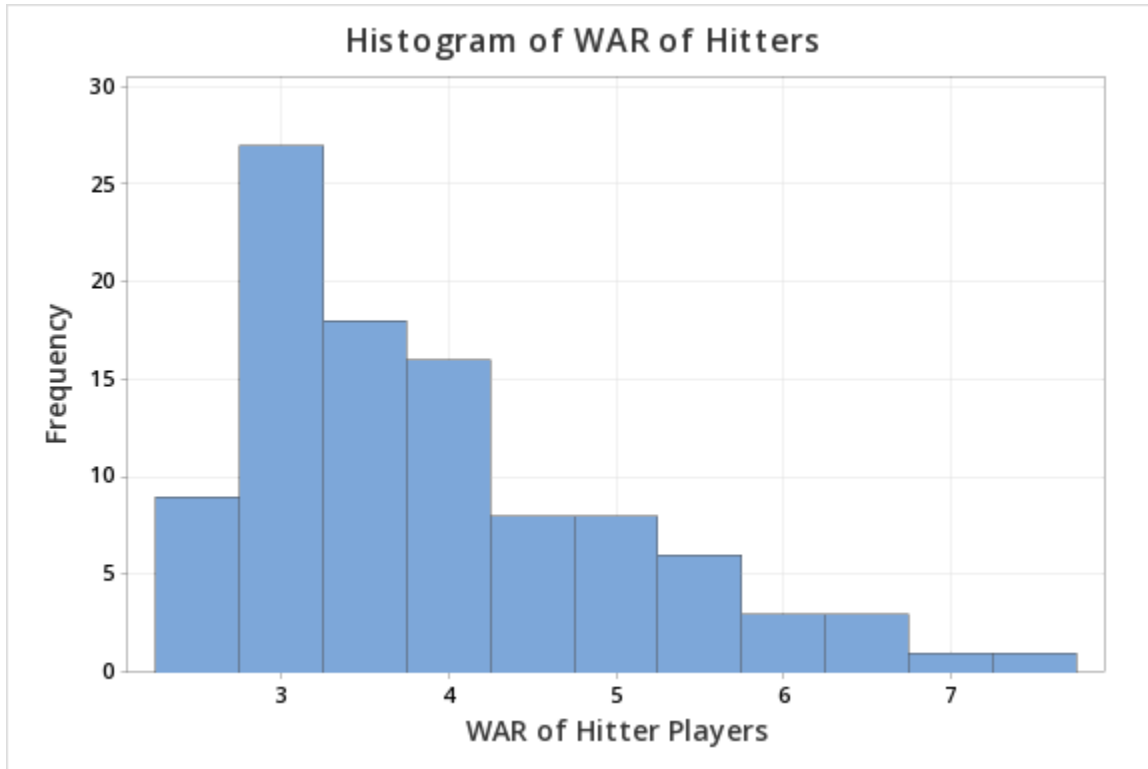
3.1	21.0000
3.1	6.3500
3.1	29.0000
3.0	0.5960
3.0	2.4000
3.0	0.5705
3.0	7.5000
3.0	6.6500
3.0	2.0500
2.9	15.0000
2.8	0.5904
2.8	19.3500
2.7	22.3000
2.7	2.2500
2.7	4.8000
2.7	7.0000
2.7	6.0000
2.6	0.5750
2.6	2.0000
2.6	6.4900
2.5	1.2750

The way I collected this data was from two different websites: the War was from ESPN while the salary was Spotrac. The sites for both of them are at the bottom of this file.



Salary (Millions) interval notation	Frequency
[0,2)	23
[2,4)	11
[4,6)	10
[6,8)	14
[8,10)	9
[10,12)	2
[12,14)	3
[14,16)	5
[16,18)	4
[18,20)	3
[20,22)	4
[22,24)	5
[24,26)	0

[26,28)	3
[28,30)	1
[30,32)	2
[32,34)	0
[34,36)	1



WAR of Hitter Interval notation	Frequency
[2.25,2.75)	9
[2.75,3.25)	27
[3.25,3.75)	18
[3.75,4.25)	16
[4.25,4.75)	8
[4.75,5.25)	8
[5.25,5.75)	6

[5.75,6.25)	3
[6.25,6.75)	3
[6.75,7.25)	1
[7.25,7.75)	1

Statistics

Variable	N	N *	Mean	SE Mean	StDev	Minimum	Q1	Median	Q3	Maximum
Salary Hitter Players in million	100	0	8.524	0.846	8.462	0.571	1.106	6.	13.938	35.
WAR of Hitter Players	100	0	3.959	0.110	1.102	2.5	3.100	3.7	4.675	7

<https://www.espn.com/mlb/war/leaders>

<https://www.spotrac.com/>