

ESTIMATIONS FOR BETTER SELECTION OF NFL DRAFTS

Numerical Summary of 3-cone test :

Minimum	6.710
Maximum	8.010
Mean	7.248
Median	7.160
Std. Dev	0.36725

Within the data set of all NFL drafted players, is the true mean time of a 3-cone drill test equal to 7.3 seconds?

Sample mean: 7.248 n = 44

Parameter of interest: μ

Null hypothesis: $H_0 : \mu = 7.3$

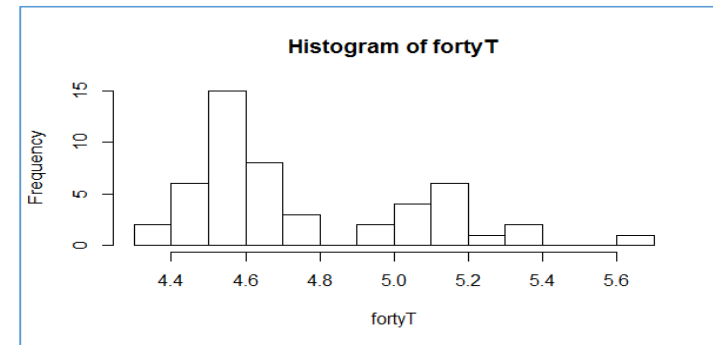
Alternative hypothesis: $H_1 : \mu > 7.3$ or $\mu < 7.3$

$$T_0 = (X - \mu_0) / (S / \sqrt{n})$$

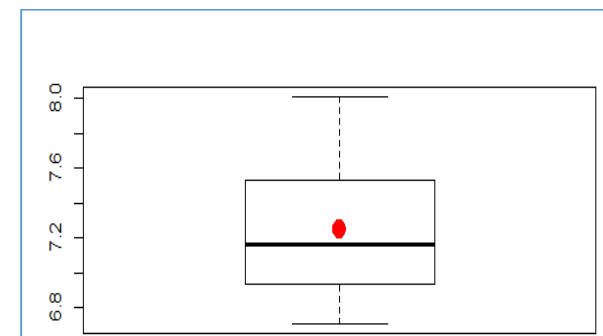
Reject H_0 if: Reject H_0 if the P-value is less than 0.10.

P value was greater than .10, so it is possible with a significance of .05 that the true mean team time of 3-cone drill test is equal to 7.3

The quantity the variable fortyT represents the 40 yard dash time of an individual player in seconds in the NFL Hall of Fame and is a ratio variable. We found the **mean** to be **4.57** seconds with a standard deviation of **0.322** seconds.



Histogram of the forty yard dash time (2015)



Boxplot for 3-Cone drill times with mean in red