

# Tire Tread Experiment

## Raw Data, Hardness

$X_1$	$X_2$	$X_3$	Hardness
-1	-1	-1	62.5
1	-1	-1	65.0
-1	1	-1	77.5
1	1	-1	70.0
-1	-1	1	67.5
1	-1	1	67.0
-1	1	1	81.0
1	1	1	74.5
-1.633	0	0	76.0
1.633	0	0	70.0
0	-1.633	0	62.0
0	1.633	0	80.0
0	0	-1.633	67.0
0	0	1.633	74.0
0	0	0	70.0
0	0	0	68.5
0	0	0	68.0
0	0	0	68.0
0	0	0	69.0
0	0	0	70.0

$$X_1 = \frac{(\text{silica} - 1.2)}{0.5}$$

$$X_2 = \frac{(\text{silane} - 50)}{10}$$

$$X_3 = \frac{(\text{sulfur} - 2.3)}{0.5}$$