

3830 : RATIO ( $P_0/2n$ )

RED → TOTAL OF 3830, 3870 & 3910

002095

0

|||| 7 + 8 = 15

.35

||||| 14 + 41 = 55

.45

||||| 47 + 93 = 140

.55

||||| 138 + 113 = 251

.65

||||| 151 + 102 = 253

.75

||||| 257 + 113 = 370

.85

||||| 289 + 125 = 414

.95

||||| 184 + 95 = 279

1.05

||||| 47 + 48 = 95

1.15

|||| 9 + 15 = 24

1.25

|| 3 + 4 = 7

1.35

| 2 + 3 = 5

1.45

1.55

1.65

|| 2

1.75

||| 3

1.85

| 1

# $\bar{X}$ & S for Ratio

Cell midpoint	f	d	fd	fd <sup>2</sup>
1.4	5	+5	25	125
1.3	7	+4	28	112
1.2	24	+3	72	216
1.1	95	+2	190	380
1.0	279	+1	279	279
0.9	414	0	0	0
0.8	370	-1	-370	370
0.7	253	-2	-506	1012
0.6	251	-3	-753	2259
0.5	140	-4	-560	2240
0.4	55	-5	-275	1375
0.3	15	-6	-90	540
	$\Sigma f = 1908$		$\Sigma fd = -1960$	$\Sigma fd^2 = 8908$

$$\bar{X} = A + \frac{i \Sigma fd}{n}$$

$$= 0.9 + \frac{.1 (-1960)}{1908}$$

$$= 0.9 + (-.102)$$

$$= 0.9 - .1$$

$\bar{X} = 0.8$

$$S = i \sqrt{\frac{n \Sigma fd^2 - (\Sigma fd)^2}{n(n-1)}}$$

$$= .1 \sqrt{\frac{1908(8908) - (1960)^2}{1908(1907)}}$$

$$= .1 \sqrt{\frac{16996464 - 3841600}{3638556}}$$

$$= .1 \sqrt{3.615}$$

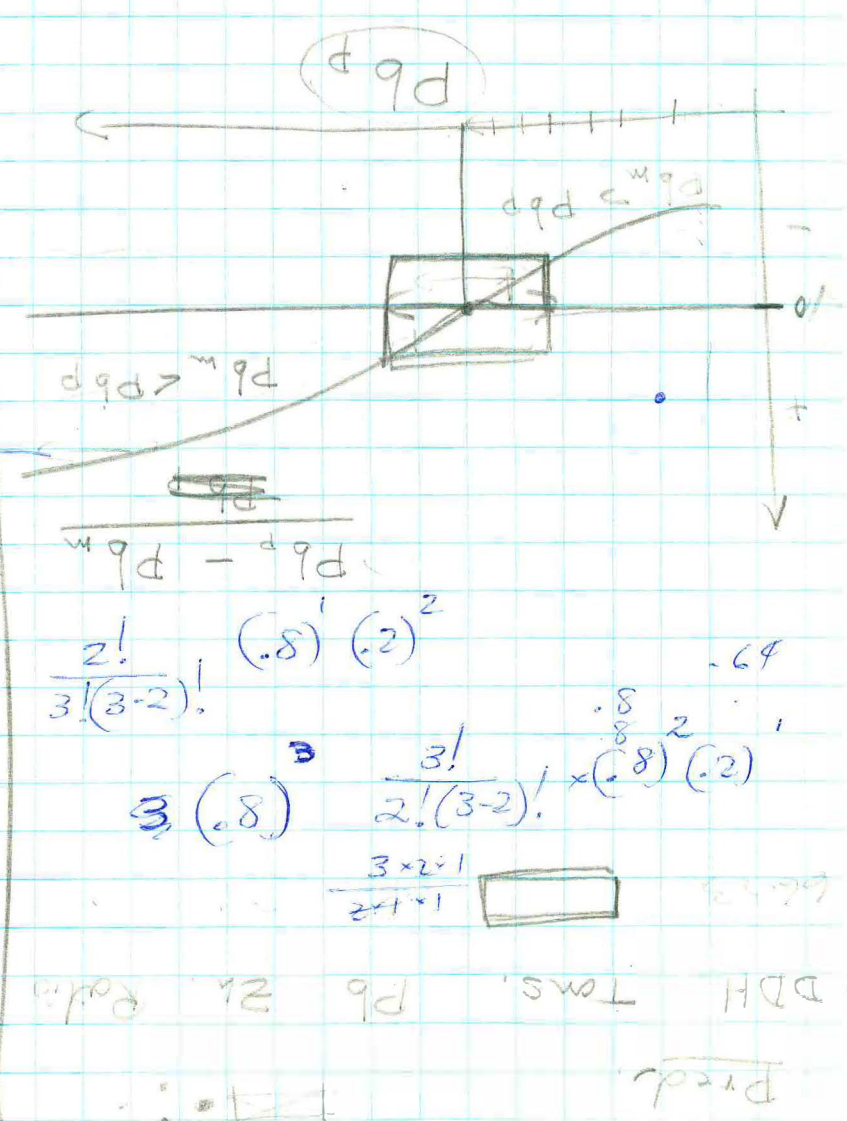
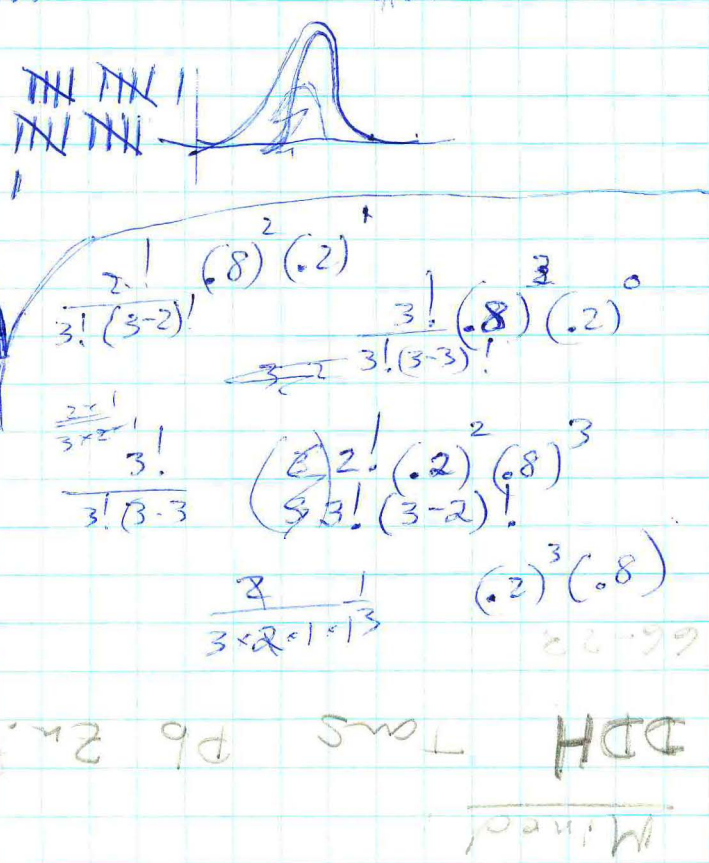
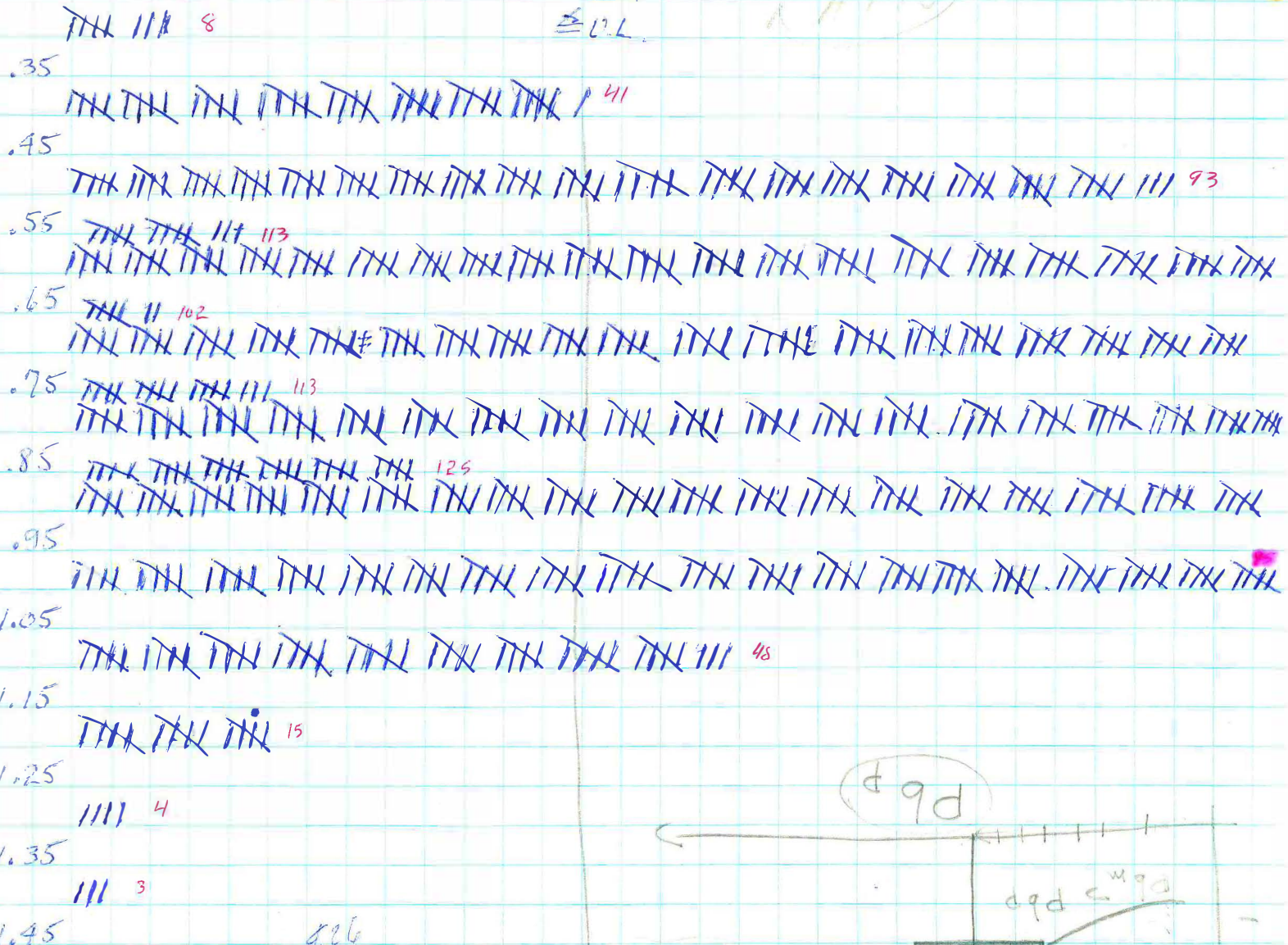
$$= .1 (1.90)$$

$S = 0.19$

3870 + 3910

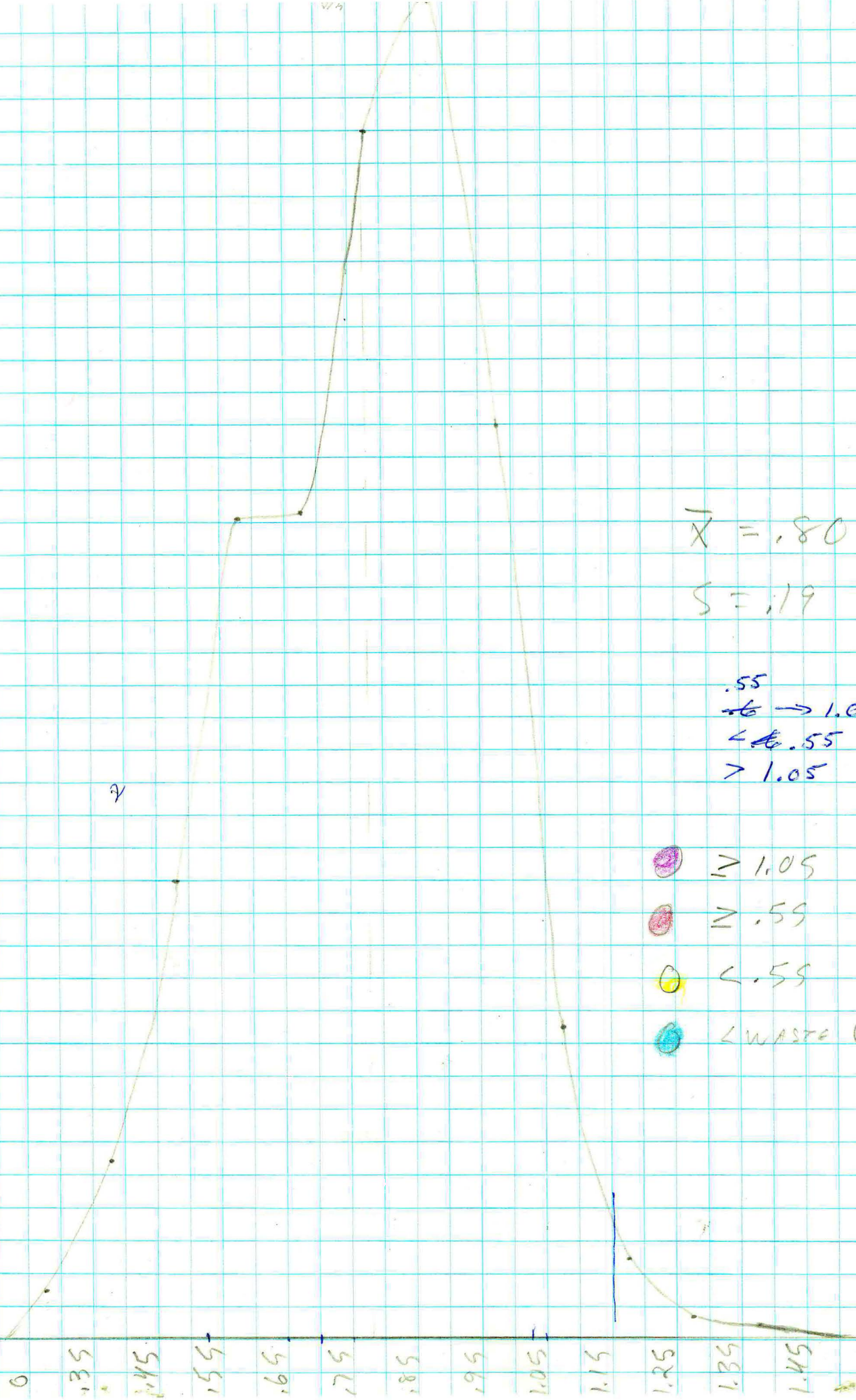
>L.L  
≤U.L

2/17/10



BDH Tms. Pb 2h. Rods DDH Tms. Pb 2h. Mined

RATIO (TOTAL)



$\bar{X} = .80$

$S = .19$

.55  
 → 1.05  
 < .55  
 > 1.05

- ≥ 1.05
- ≥ .55
- < .55
- < WASTE (% Z<sub>1</sub> < 5.0%)