MFS Wether trial

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The values of wether trials

- How do your sheep compare to the local industry?
- You can compare bloodlines if they have enough information. Eg Combined bloodline analysis.
- You can look at the important relationships between traits.
- The information is valid to the ewe flock

Results from the 3 years

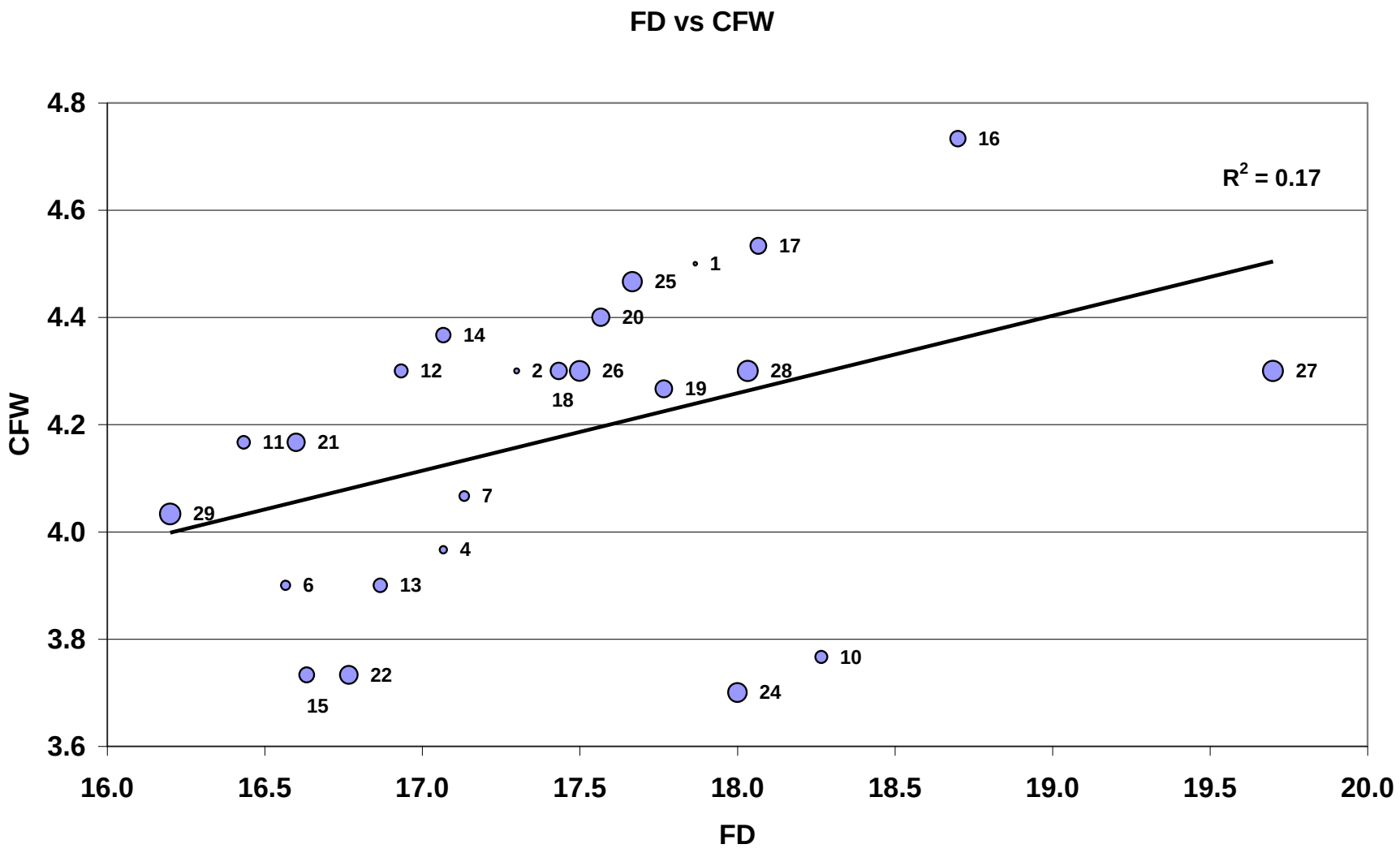
- 3 fleeces plus 1 carcass equals total income. Matches a self replacing ewe flock.
- Divide by the number of sheep that contributed to the income total and divide by 45 (takes account of deaths) to give 2 results.
- Divide by the dse rating (based on body wt) to give a number that takes account of the feed eaten.

Teams from properties that sell rams

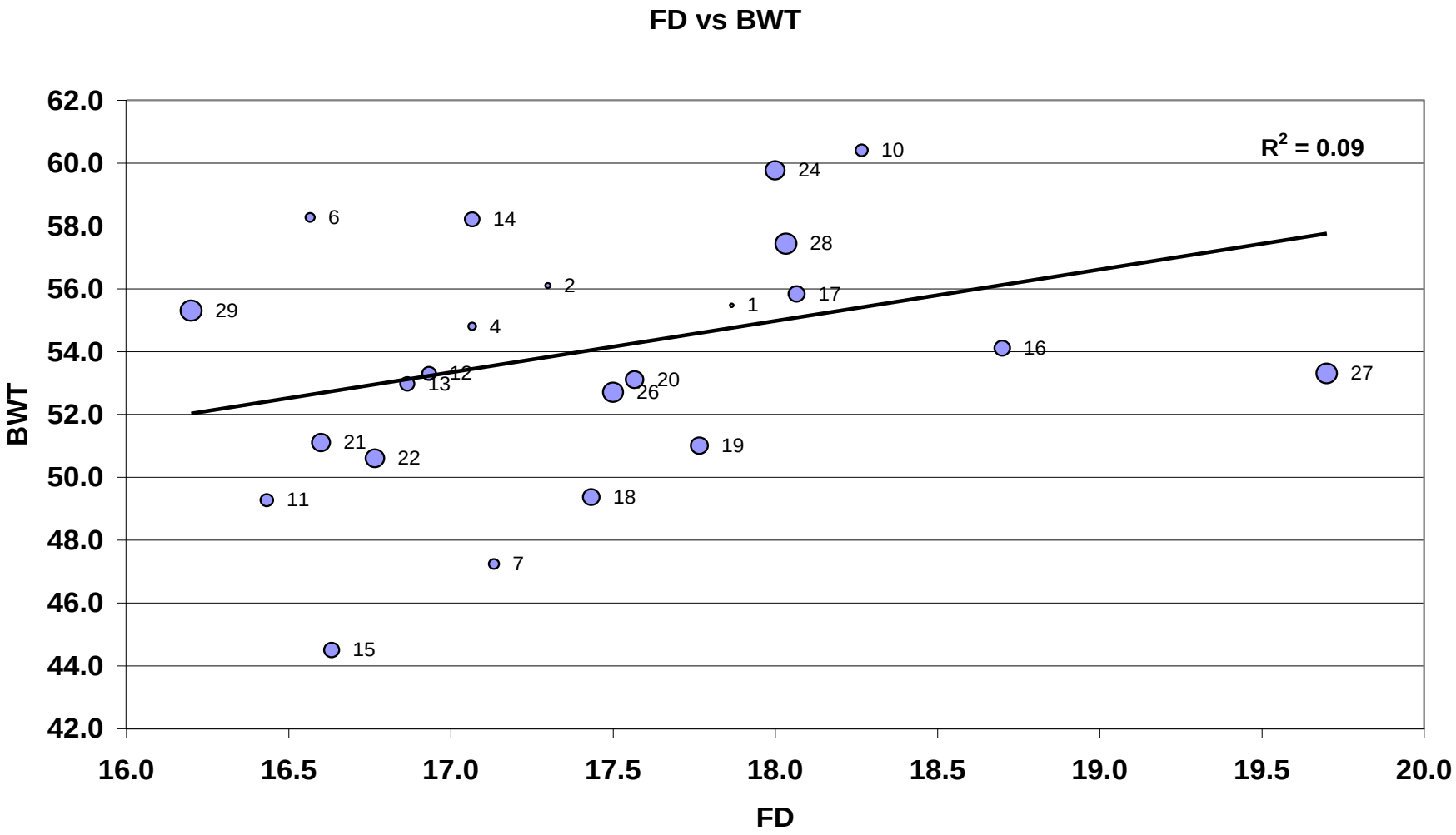
NO DEATHS		Deaths	
Ave $/dse	Team	Ave $/dse	Team
83.51	11	83.51	11
78.95	12	78.95	12
78.19	29	78.19	29
73.61	2	73.61	2
72.59	1	72.59	1
71.65	18	71.65	18
70.18	22	70.18	22
69.44	28	69.44	28
59.20	10	57.89	10

Ave $/dse	Team	Ave $/dse	Team
78.11	**21**	**77.95**	**7**
77.95	**7**	**76.47**	**15**
76.47	**15**	**75.03**	**26**
75.95	**19**	**73.81**	**20**
75.03	**26**	**73.62**	**16**
73.81	**20**	**72.66**	**14**
73.62	**16**	**71.17**	**21**
73.15	**13**	**70.88**	**19**
72.66	**14**	**70.17**	**6**
71.76	**6**	**69.90**	**13**
71.66	**17**	**69.55**	**25**
70.32	**4**	**68.48**	**17**
69.55	**25**	**67.20**	**4**
66.36	**27**	**64.89**	**27**
60.81	**24**	**58.10**	**24**

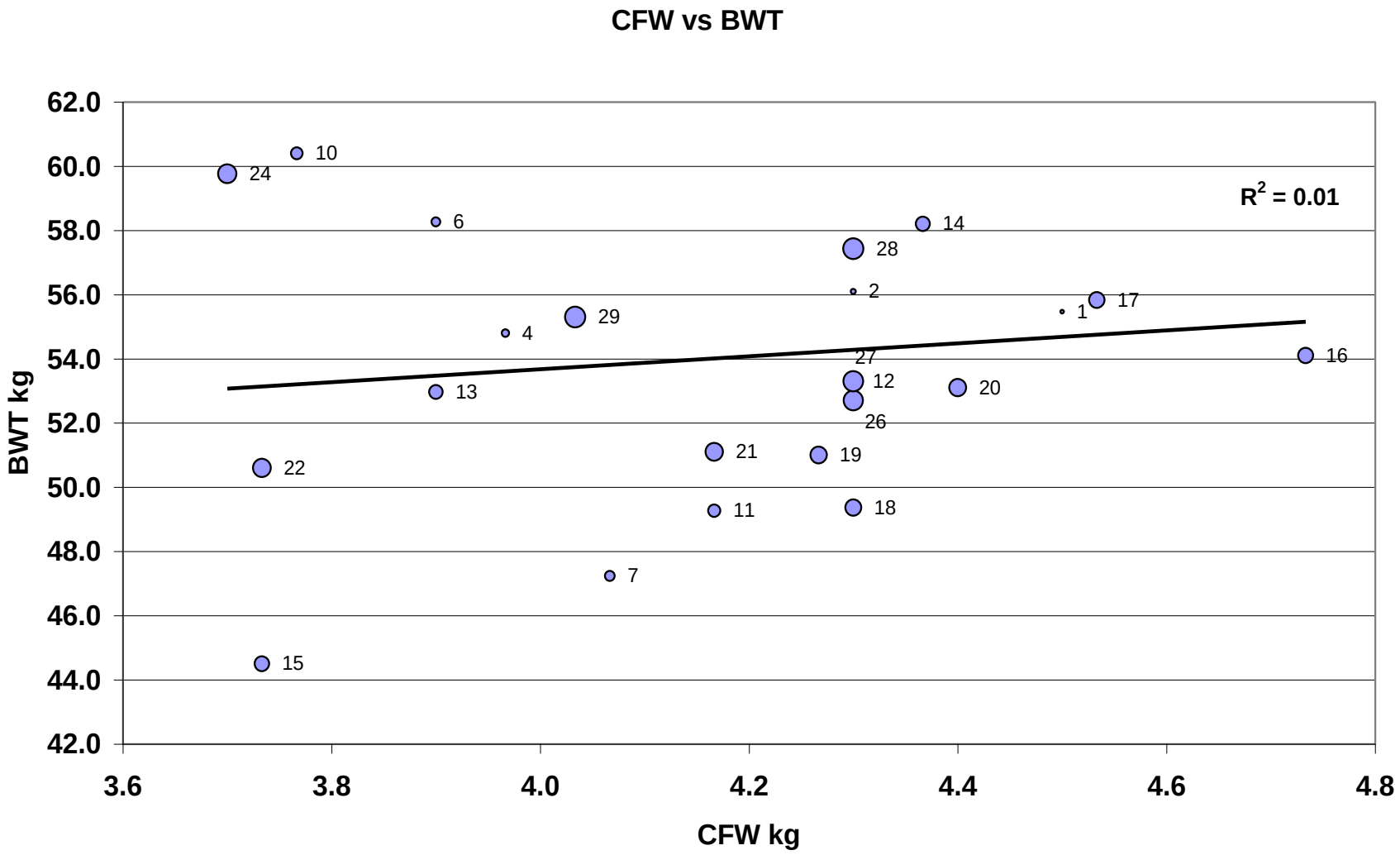
MFS – FD v CFW


FD vs CFW
CFW
FD
4.8
4.6
4.4
4.2
4.0
3.8
3.6
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
R2 = 0.17
16
17
1
25
20
14
12
2
26
28
27
18
19
11
21
7
29
4
6
13
10
22
24
15

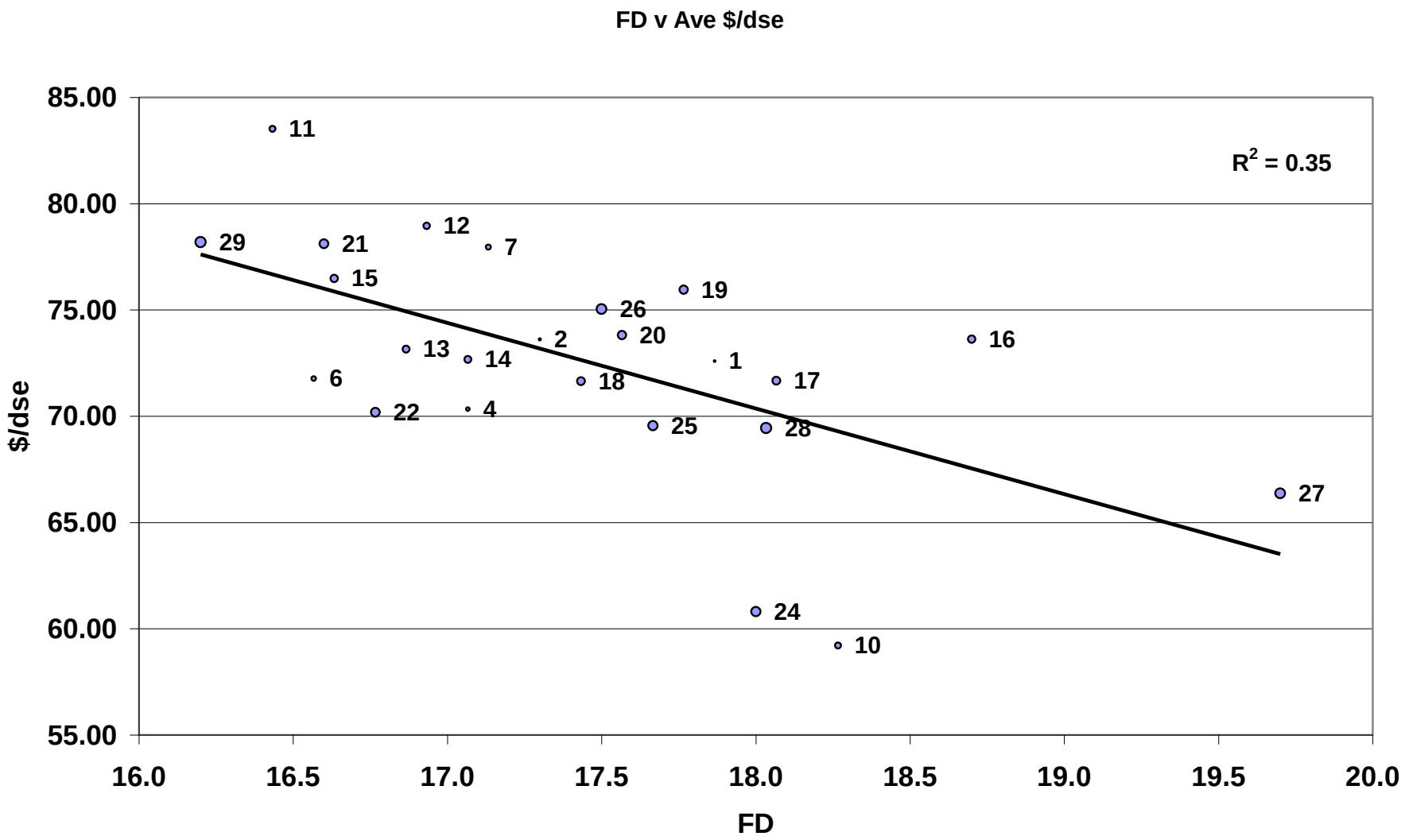
MFS – FD v BWT


FD vs BWT
62.0
60.0
58.0
56.0
54.0
52.0
50.0
48.0
46.0
44.0
42.0
BWT
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
FD
R2 = 0.09
10
24
6
14
28
2
17
29
1
4
16
12
13
20
27
26
21
19
22
11
18
7
15

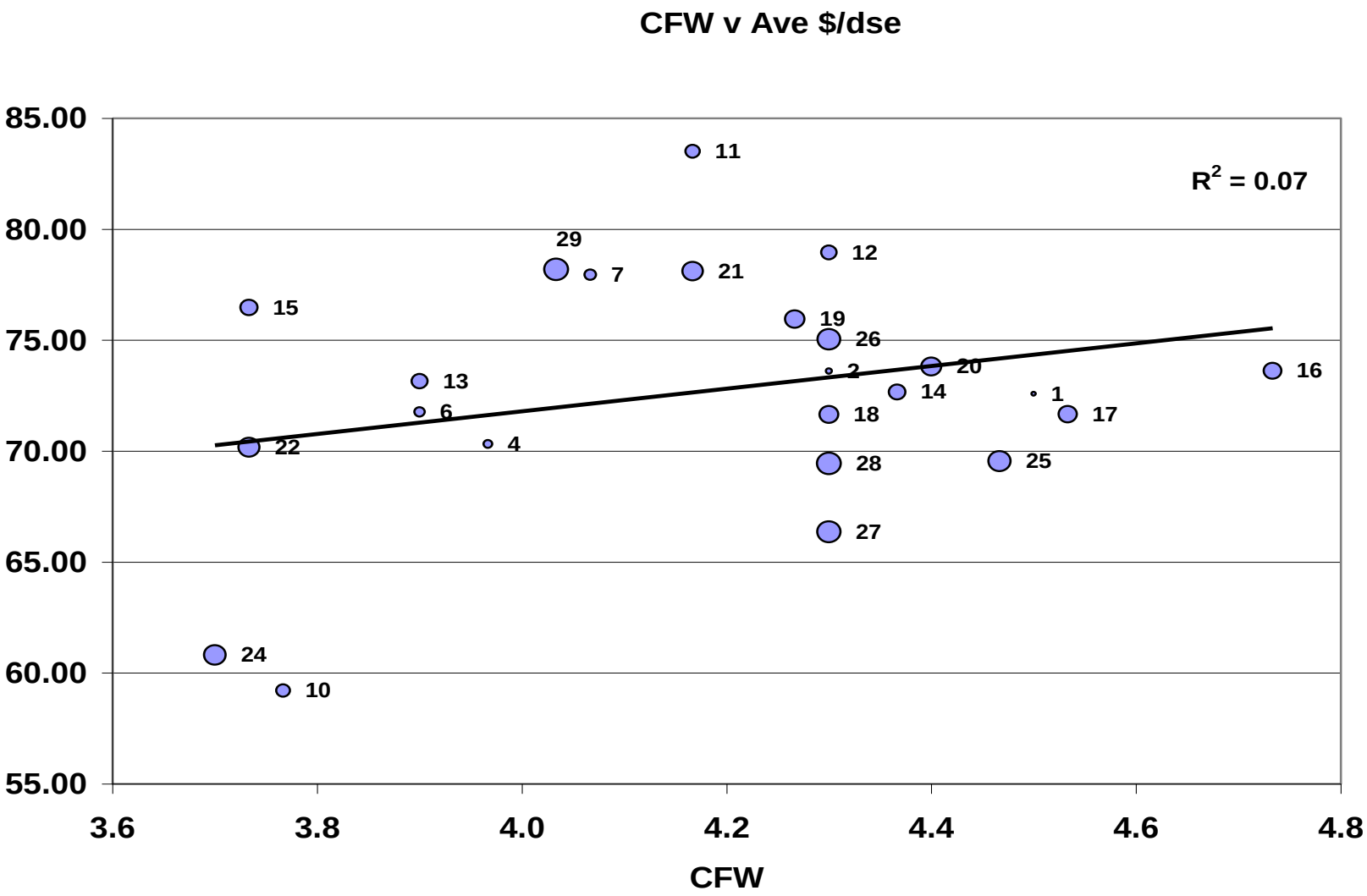
MFS – CFW v BWT


CFW vs BWT
BWT kg
CFW kg
62.0
60.0
58.0
56.0
54.0
52.0
50.0
48.0
46.0
44.0
42.0
3.6
3.8
4.0
4.2
4.4
4.6
4.8
R2 = 0.01
10
24
6
14
28
2
17
1
29
4
16
27
12
20
13
26
21
19
22
11
18
7
15

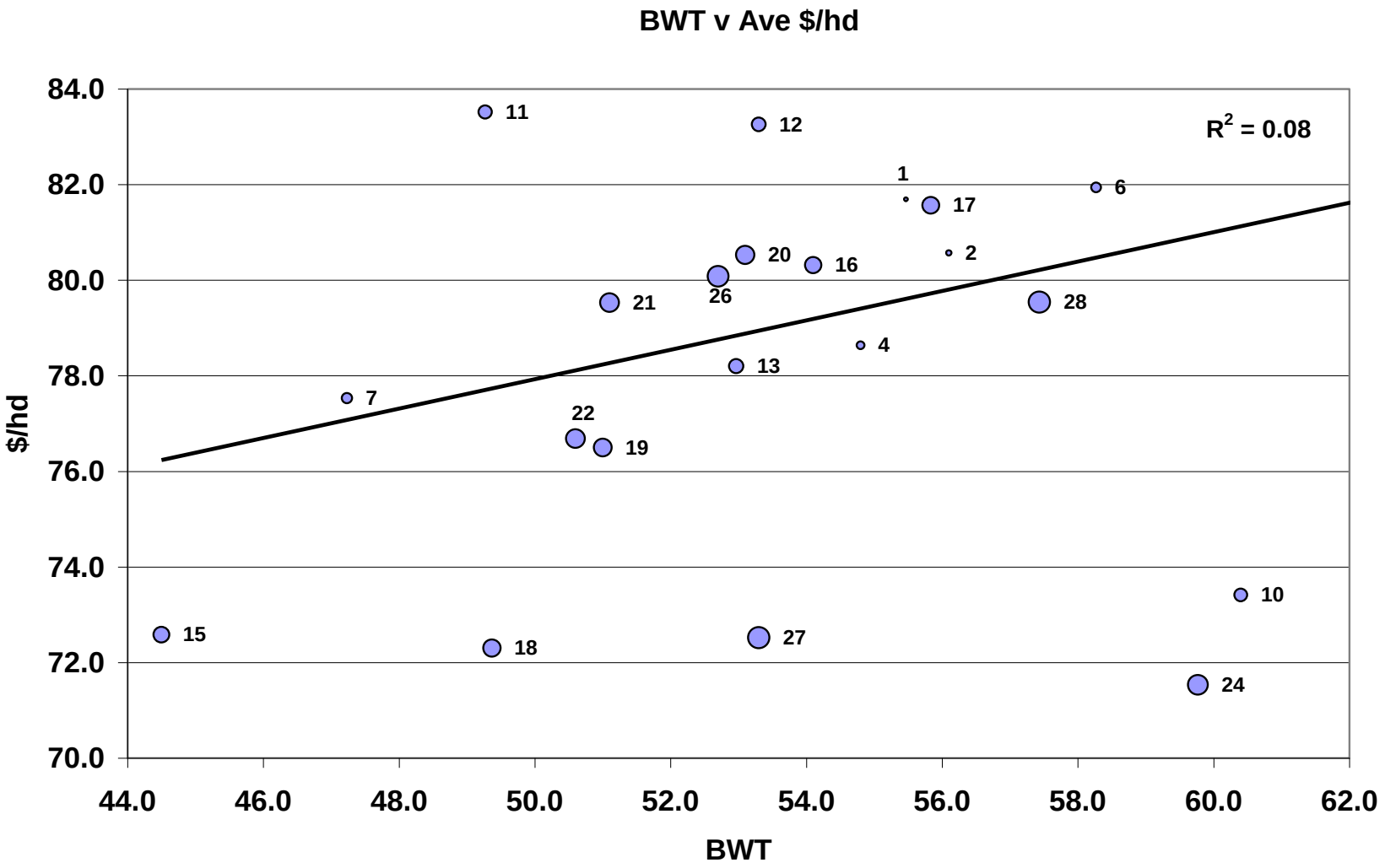
MFS – FD v $/dse


FD v Ave $/dse
$/dse
FD
85.00
80.00
75.00
70.00
65.00
60.00
55.00
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
R2 = 0.35
11
29
21
12
7
15
19
26
20
2
16
13
14
1
6
18
17
22
4
25
28
27
24
10

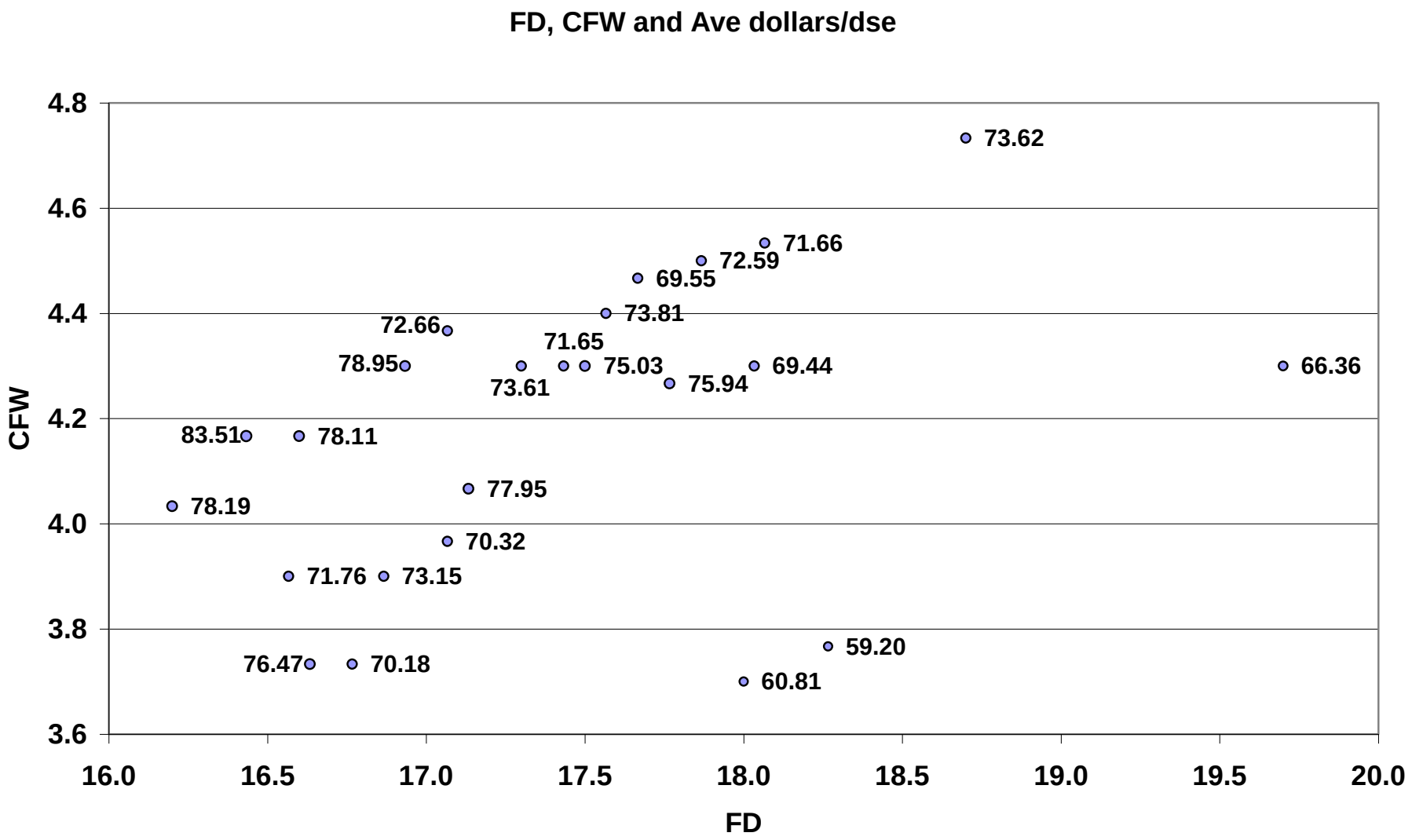
MFS – CFW v $/dse


CFW v Ave $/dse
85.00
80.00
75.00
70.00
65.00
60.00
55.00
3.6
3.8
4.0
4.2
4.4
4.6
4.8
CFW
R2 = 0.07
11
29
7
21
12
15
19
26
2
20
16
13
14
1
6
18
17
22
4
28
25
27
24
10

MFS BWT v $/hd


BWT v Ave $/hd
$/hd
BWT
84.0
82.0
80.0
78.0
76.0
74.0
72.0
70.0
44.0
46.0
48.0
50.0
52.0
54.0
56.0
58.0
60.0
62.0
R2 = 0.08
11
12
1
17
6
20
16
2
26
21
28
4
13
7
22
19
10
15
18
27
24

MFS – FD v CFW v $/dse



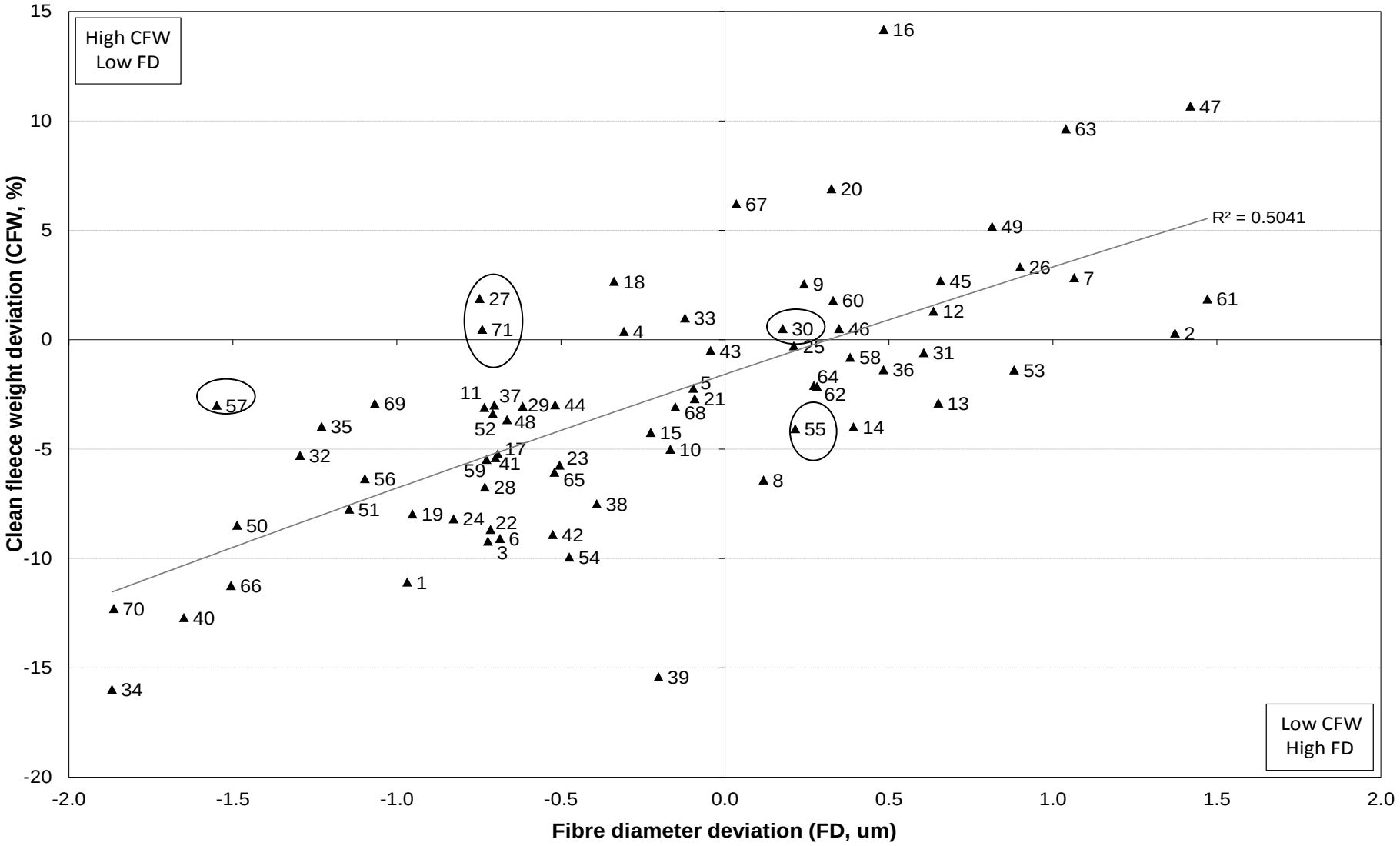
MFS compared to industry

	MFS	Bookham	Combined
CFW v FD	**0.17**	**0.31**	**0.52**
CFW v BWT	**0.01**	**0.18**	**0.47**
FD v BWT	**0.09**	**0.07**	**0.25**
FD v $/dse	**0.35**	**0.14**	**0.12**
CFW v $/dse	**0.07**	**0.15**	**0.05**

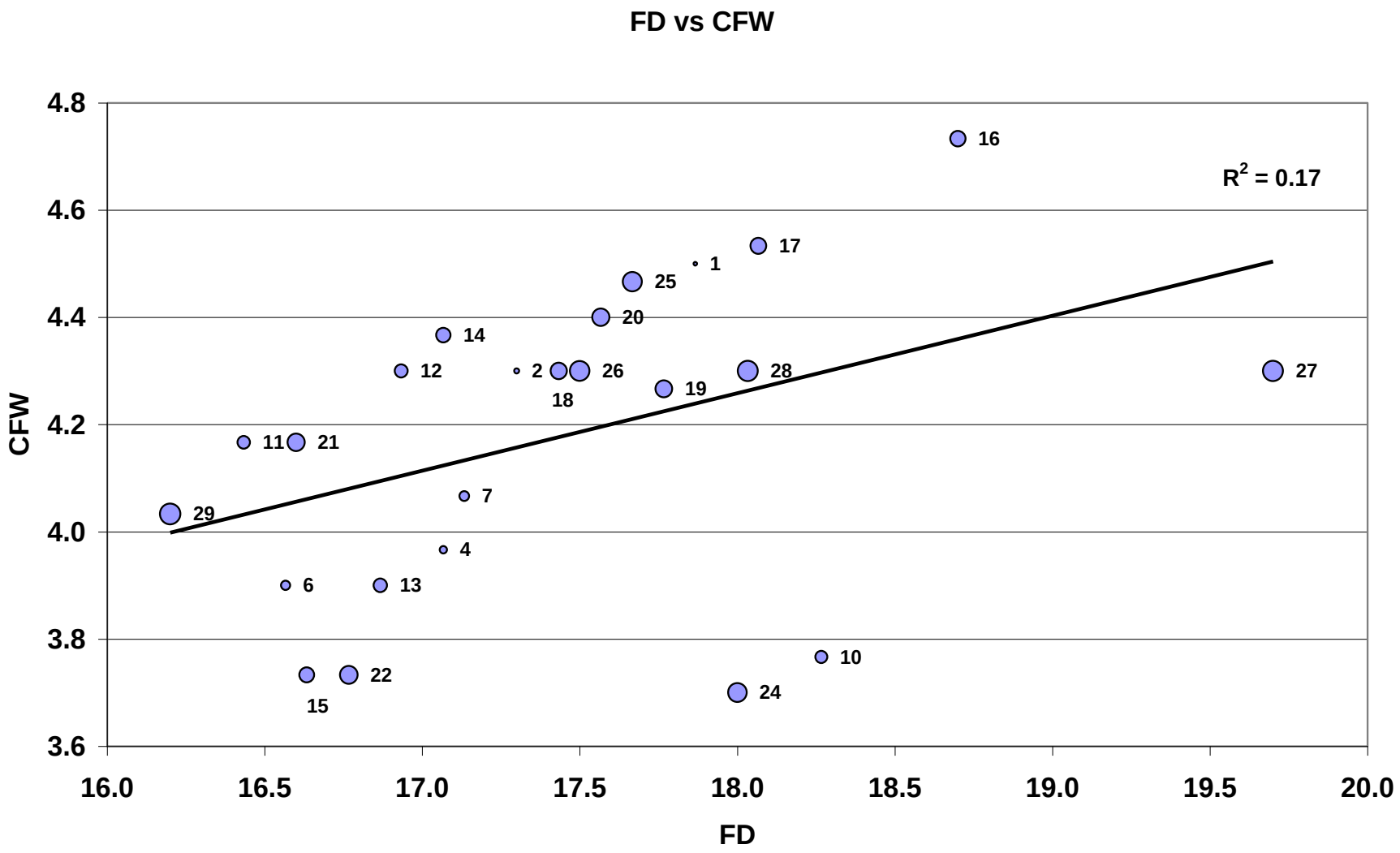
Summary

- You can breed sheep with any combination of the main traits that you want just make sure that the combination you choose will make you money.

Combine analysis v MFS



MFS – FD v CFW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17.0
17.5
18.0
18.5
19.0
19.5
20.0
R2 = 0.17
16
17
1
25
20
14
12
2
26
28
27
18
19
11
21
7
29
4
6
13
10
22
24
15

- This MFS trial has leading industry bloodlines in it so you have benchmarked your property against the upper end of the industry.

How is income split up in a merino flock?

1960 to 2013

	50 kg ewes 5 yr ave prices	55 kg ewes 5 yr ave prices
Wool	**60%**	**59%**
CFA ewes	**10%**	**10%**
Surplus ewes	**8%**	**8%**
15 mth wethers	**22%**	**23%**
Profit $/ha	**$189**	**$187**

Relative impact on profit/ha from a 5% improvements in traits in a 19 um merino flock in

5% inc in fleece wt	5% dec in F.D.	5% inc in body wt + 6% lambs
$122/ha	**$132/ha**	**$121/ha**
DSE **8.8**	**DSE** **8.8**	**DSE** **9.4**

How intake changes with FS

38 kg	44 kg	50 kg	56 kg	62 kg
1.6 kg dm/hd	1.6 kg dm/hd	1.6 kg dm/hd	1.6 kg dm/hd	1.5 kg dm/hd
4.2%	3.6%	3.2%	2.8%	2.4%

Questions

- Should we adjust CFW by the dse? **NO**
- Is there a relationship between FS and survival? Don’t know, we would have to run a 100 wethers per team to get the data.
- What is the relationship between FS and CFW? We would have to FS the wethers each year to do this comparison and do the analysis on an individual sheep basis.