

# Course Placement Service Report



**SOUTHERN ARKANSAS UNIVERSITY (0142)**  
**Magnolia, AR**

**Placement Group:** OUT-OF-STATE

**Subject Area:** Reading

**Data Cohort:** 20142015

**Date of Report:** August 10, 2016

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# **Course Placement Report**

Information for Making Placement Decisions

**Placement Group: OUT-OF-STATE**

### Summary of Placement Variables

This table summarizes the placement variables used in requested analyses for each reference course. The table shows number of students, mean value, and standard deviation.

The descriptive statistics for course completers are based on students who receive A-F grades. However, if you chose to treat W grades as unsuccessful outcomes, the statistics will also include students with W grades.

		OUT-OF-STATE			Students who completed course		
Reference course	Placement variable	N	Mean	SD	N	Mean	SD
PSYCHOLOGY	ACT Reading Score	188	21.4	5.7	44	21.8	5.2
	High School Social Studies Grade Average	169	3.5	0.6	43	3.7	0.5
	ACT Reading Score and High School Social Studies Grade Average	169	21.6 3.5	5.8 0.6	43	21.9 3.7	5.3 0.5

### Summary of Course Outcomes

This table summarizes the course outcomes used in requested analyses for each reference course.

The table shows number of students, mean course grade, standard deviation, percent B or higher, percent C or higher, total of just W and I grades, and W grades not treated as successful.

		Grades used in analysis						
Reference course	Placement variable	N	Mean	SD	Percent B or higher	Percent C or higher	Total of W and I grades	W grades treated as not successful
PSYCHOLOGY	ACT Reading Score	44	2.5	1.4	55	77	2	Yes
	High School Social Studies Grade Average	43	2.6	1.4	56	79	2	Yes
	ACT Reading Score and High School Social Studies Grade Average	43	2.6	1.4	56	79	2	Yes

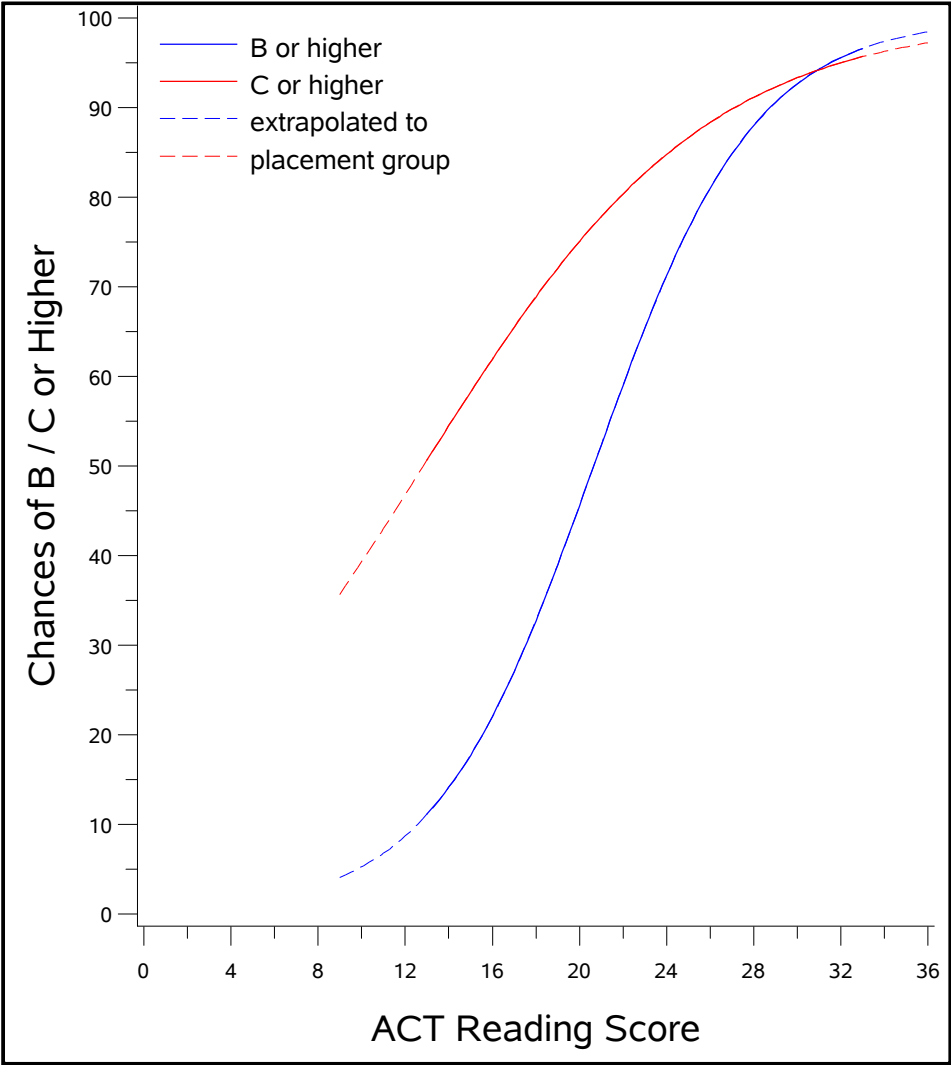
This table and graph report students' chances of achieving a B / C or higher in PSYCHOLOGY, given their ACT Reading Score. For example, the chance that a student with an ACT Reading Score of 23 would obtain a B or higher in PSYCHOLOGY is 65%.

If present, the boldface scores labeled as Opt. B and Opt. C in the table show the cutoff scores that are associated with the maximum accuracy rate. The information in the table and graph can be used to advise students about their chances of success in PSYCHOLOGY.

Chance of Success in PSYCHOLOGY,  
Given ACT Reading Score

ACT Reading Score		Chance of success (B or higher)	Chance of success (C or higher)
Opt. B	36	98	97
	34	97	96
	33	97	96
	32	96	95
	31	94	94
	30	93	93
	29	91	92
	28	88	91
	27	85	90
	26	81	88
	25	76	87
	24	71	85
	23	65	83
	22	59	80
	<b>21</b>	52	78
	20	46	75
	19	39	72
	18	33	69
	17	27	66
Opt. C	16	22	62
	15	18	58
	14	14	54
	<b>13</b>	11	51
	12	9	47
	11	7	43
	9	4	36

Chance of Success in PSYCHOLOGY,  
Given ACT Reading Score



### Placement Information for PSYCHOLOGY Using ACT Reading Score

This table shows the effects of using different ACT Reading Score cutoffs in PSYCHOLOGY. For example, if you were to require students to have an ACT Reading Score of at least 23 to be placed into PSYCHOLOGY, then you would expect:

- about 61% of your students would be placed in a lower-level course
- about 73% of your placement decisions would be correct
- about 82% of those placed in PSYCHOLOGY would obtain a B or higher

ACT Reading Score			B or higher		C or higher	
		Percent placed in lower-level course	Accuracy rate	Success rate	Accuracy rate	Success rate
	36	99	48	98	25	97
	34	98	49	98	26	97
	33	97	51	97	27	96
	32	94	53	96	30	96
	31	93	54	96	31	95
	30	89	57	95	34	95
	29	86	60	94	37	94
	28	83	62	93	39	94
	27	79	65	91	42	93
	26	77	67	90	44	92
	25	74	68	89	46	92
	24	66	71	85	51	90
	23	61	73	82	55	89
Opt. B	22	54	74	79	59	88
	21	45	74	74	65	86
	20	39	74	72	67	85
	19	34	73	69	70	84
	18	29	71	67	71	83
	17	24	69	64	73	82
	16	16	65	60	75	80
	15	14	63	59	75	79
Opt. C	14	7	58	56	76	78
	13	3	55	54	76	77
	12	1	53	53	76	76
	11	1	53	53	76	76
	9		52	52	76	76

If present, the shaded rows highlight the optimal cutoff scores (i.e., those that lead to the highest percentage of correct placement decisions).

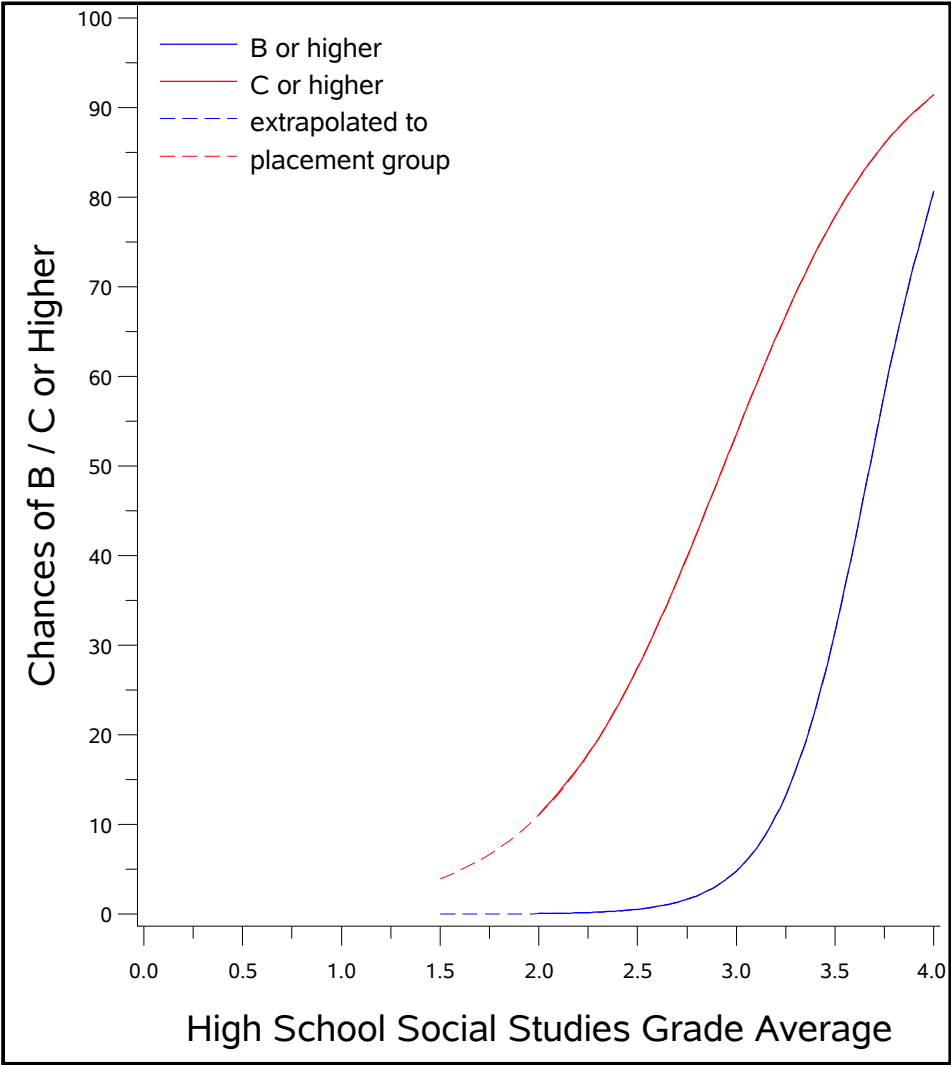
This table and graph report students' chances of achieving a B / C or higher in PSYCHOLOGY, given their High School Social Studies Grade Average. For example, the chance that a student with a High School Social Studies Grade Average of 2.8 would obtain a B or higher in PSYCHOLOGY is 2%.

If present, the boldface scores labeled as Opt. B and Opt. C in the table show the cutoff scores that are associated with the maximum accuracy rate. The information in the table and graph can be used to advise students about their chances of success in PSYCHOLOGY.

Chance of Success in PSYCHOLOGY,  
Given High School Social Studies Grade Average

High School Social Studies Grade Average		Chance of success (B or higher)	Chance of success (C or higher)
Opt. B	4.0	81	91
	3.8	63	87
	<b>3.7</b>	53	85
	3.6	42	81
	3.5	32	78
	3.4	23	74
Opt. C	3.3	16	69
	3.2	11	64
	<b>3.0</b>	5	54
	2.8	2	43
	2.7	1	37
	2.5	1	27
	2.4	0	23
	2.3	0	20
	2.0	0	11
	1.8	0	7
	1.7	0	6
	1.5	0	4

Chance of Success in PSYCHOLOGY,  
Given High School Social Studies Grade Average





### Placement Information for PSYCHOLOGY Using High School Social Studies Grade Average

This table shows the effects of using different High School Social Studies Grade Average cutoffs in PSYCHOLOGY. For example, if you were to require students to have a High School Social Studies Grade Average of at least 2.8 to be placed into PSYCHOLOGY, then you would expect:

- about 13% of your students would be placed in a lower-level course
- about 58% of your placement decisions would be correct
- about 51% of those placed in PSYCHOLOGY would obtain a B or higher

High School Social Studies Grade Average			B or higher		C or higher	
		Percent placed in lower-level course	Accuracy rate	Success rate	Accuracy rate	Success rate
Opt. B	4.0	59	80	81	62	91
	3.8	55	81	79	65	91
	<b>3.7</b>	<b>47</b>	<b>82</b>	<b>75</b>	70	90
	3.6	44	81	73	72	90
	3.5	40	80	70	75	89
	3.4	38	79	69	75	88
	3.3	31	74	64	78	86
Opt. C	3.2	29	72	62	79	86
	<b>3.0</b>	<b>15</b>	<b>60</b>	<b>53</b>	<b>80</b>	<b>81</b>
	2.8	13	58	51	79	80
	2.7	10	55	50	79	78
	2.5	7	52	48	77	77
	2.4	6	51	48	77	76
	2.3	5	49	47	76	75
	2.0	2	47	46	74	73
	1.8	1	46	45	73	73
	1.7	1	45	45	73	72
	1.5		45	45	72	72

If present, the shaded rows highlight the optimal cutoff scores (i.e., those that lead to the highest percentage of correct placement decisions).

The matrix reports students' chances of achieving a B or higher in PSYCHOLOGY, given their ACT Reading Score and High School Social Studies Grade Average. For example, the chance that a student with an ACT Reading Score of 17 and a High School Social Studies Grade Average of 2.2 would obtain a B or higher in PSYCHOLOGY is 0%.

If present, the dark gold area shows the combinations of ACT Reading Score and High School Social Studies Grade Average values that are at or near a 50% chance level. The combinations that maximize the percentage of correct placement decisions (accuracy rate) always correspond to a chance of 50%.

[illegible]

### Chance of a C or Higher in PSYCHOLOGY, Given ACT Reading Score and High School Social Studies Grade Average

The matrix reports students' chances of achieving a C or higher in PSYCHOLOGY, given their ACT Reading Score and High School Social Studies Grade Average. For example, the chance that a student with an ACT Reading Score of 17 and a High School Social Studies Grade Average of 2.2 would obtain a C or higher in PSYCHOLOGY is 13%.

If present, the dark gold area shows the combinations of ACT Reading Score and High School Social Studies Grade Average values that are at or near a 50% chance level. The combinations that maximize the percentage of correct placement decisions (accuracy rate) always correspond to a chance of 50%.

High School Social Studies Grade Average

4.0	61	63	65	68	70	71	73	75	77	78	80	81	83	84	85	87	88	89	89	90	91	92	93	93	94	94	95	95	96	96	96	97	97	97	97	98
3.9	56	58	60	63	65	67	69	71	73	75	76	78	80	81	83	84	85	86	87	88	89	90	91	92	92	93	94	94	95	95	95	96	96	97	97	97
3.8	51	53	55	58	60	62	64	66	69	70	72	74	76	78	79	81	82	83	85	86	87	88	89	90	91	91	92	93	93	94	94	95	95	96	96	96
3.7	45	48	50	52	55	57	59	62	64	66	68	70	72	74	76	77	79	80	82	83	84	86	87	88	89	90	90	91	92	93	93	94	94	95	95	96
3.6	40	42	45	47	49	52	54	56	59	61	63	65	67	69	71	73	75	77	78	80	81	83	84	85	86	88	89	89	90	91	92	92	93	94	94	95
3.5	35	37	40	42	44	46	49	51	54	56	58	60	63	65	67	69	71	73	75	76	78	80	81	82	84	85	86	87	88	89	90	91	92	92	93	94
3.4	31	33	35	37	39	41	44	46	48	51	53	55	58	60	62	64	66	68	70	72	74	76	78	79	81	82	83	85	86	87	88	89	90	91	91	92
3.3	26	28	30	32	34	36	38	41	43	45	48	50	52	55	57	59	61	64	66	68	70	72	74	75	77	79	80	82	83	84	86	87	88	89	90	90
3.2	22	24	26	28	30	32	34	36	38	40	42	45	47	49	52	54	56	59	61	63	65	67	69	71	73	75	77	78	80	81	83	84	85	86	87	88
3.1	19	20	22	24	25	27	29	31	33	35	37	40	42	44	46	49	51	53	56	58	60	63	65	67	69	71	73	75	76	78	80	81	82	84	85	86
3.0	16	17	19	20	22	23	25	27	29	30	32	35	37	39	41	43	46	48	50	53	55	57	60	62	64	66	68	70	72	74	76	78	79	81	82	83
2.9	13	14	16	17	18	20	21	23	24	26	28	30	32	34	36	38	41	43	45	48	50	52	55	57	59	61	64	66	68	70	72	74	75	77	79	80
2.8	11	12	13	14	15	16	18	19	21	22	24	26	28	29	31	33	36	38	40	42	45	47	49	52	54	56	59	61	63	65	67	69	71	73	75	77
2.7	9	10	11	12	13	14	15	16	17	19	20	22	24	25	27	29	31	33	35	37	39	42	44	46	49	51	53	56	58	60	62	65	67	69	71	73
2.6	7	8	9	10	11	11	12	13	15	16	17	18	20	21	23	25	27	28	30	32	34	37	39	41	43	46	48	50	53	55	57	60	62	64	66	68
2.5	6	7	7	8	9	9	10	11	12	13	14	15	17	18	20	21	23	24	26	28	30	32	34	36	38	41	43	45	47	50	52	54	57	59	61	63
2.4	5	5	6	7	7	8	8	9	10	11	12	13	14	15	16	18	19	21	22	24	26	27	29	31	33	36	38	40	42	44	47	49	51	54	56	58
2.3	4	4	5	5	6	6	7	8	8	9	10	11	12	13	14	15	16	17	19	20	22	23	25	27	29	31	33	35	37	39	42	44	46	49	51	53
2.2	3	4	4	4	5	5	6	6	7	7	8	9	10	10	11	12	13	15	16	17	18	20	21	23	25	26	28	30	32	34	37	39	41	43	46	48
2.1	3	3	3	4	4	4	5	5	6	6	7	7	8	9	9	10	11	12	13	14	15	17	18	19	21	23	24	26	28	30	32	34	36	38	40	43
2.0	2	2	3	3	3	3	4	4	5	5	5	6	7	7	8	8	9	10	11	12	13	14	15	16	18	19	21	22	24	26	27	29	31	33	35	38
1.9	2	2	2	2	3	3	3	3	4	4	4	5	5	6	6	7	8	8	9	10	11	12	13	14	15	16	17	19	20	22	23	25	27	29	31	33
1.8	1	2	2	2	2	2	3	3	3	3	4	4	4	5	5	6	6	7	7	8	9	10	10	11	12	13	14	16	17	18	20	21	23	25	26	28
1.7	1	1	1	2	2	2	2	2	2	3	3	3	4	4	4	5	5	6	6	7	7	8	9	9	10	11	12	13	14	15	17	18	19	21	23	24
1.6	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	4	4	5	5	5	6	6	7	8	8	9	10	11	12	13	14	15	16	18	19	21
1.5	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	5	5	6	6	7	8	8	9	10	11	12	13	14	15	16	17	17
1.4	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	4	5	5	6	6	7	7	8	9	10	10	11	12	13	14	14
1.3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	4	4	5	5	6	6	7	7	8	9	9	10	11	12
1.2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	4	4	5	5	5	6	6	7	8	8	9	10	10
1.1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	5	5	6	6	7	8	8
1.0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	6	6	7	7
0.9	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	4	4	4	5	5	6	6
0.8	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	5	5
0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	5
0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	4
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

ACT Reading Score

### Placement Information for PSYCHOLOGY Using ACT Reading Score and High School Social Studies Grade Average

This table shows the impact of using different combinations of ACT Reading Scores and High School Social Studies Grade Averages as cutoff scores in PSYCHOLOGY. For example, if you were to require students to have at least a 50% chance of a B or higher based on their ACT Reading Scores and High School Social Studies Grade Averages to be placed into PSYCHOLOGY (see page 9), then you would expect:

- about 51% of your students would be placed in a lower-level course
- about 87% of your placement decisions would be correct
- about 85% of those placed in PSYCHOLOGY would obtain a B or higher

	B or higher			C or higher		
Chance range	Percent below	Accuracy rate	Success rate	Percent below	Accuracy rate	Success rate
91 - 99	87	65	99	84	43	96
85 - 90	73	78	96	58	65	93
82 - 84	65	83	93	49	71	92
79 - 81	65	83	93	45	74	91
76 - 78	64	84	93	42	76	90
73 - 75	60	86	90	39	77	90
70 - 72	60	86	90	36	78	89
67 - 69	57	86	89	34	79	88
64 - 66	57	86	89	33	80	88
61 - 63	56	87	88	31	80	87
58 - 60	52	87	86	28	81	86
55 - 57	52	87	86	25	81	85
52 - 54	51	87	85	22	81	84
49 - 51	51	87	85	20	81	83
46 - 48	50	87	84	20	81	83
43 - 45	49	87	83	18	81	82
40 - 42	48	87	82	17	81	82
37 - 39	47	87	81	16	81	81
34 - 36	46	87	81	14	80	80
31 - 33	44	86	79	14	80	80
28 - 30	44	86	79	12	79	79
25 - 27	43	85	78	11	79	78
22 - 24	41	84	76	9	78	77
19 - 21	39	83	74	7	77	76
16 - 18	38	83	74	5	75	74
10 - 15	36	81	72	3	74	73
1 - 9	24	70	61	1	72	72

If present, the shaded rows highlight the optimal cutoff combinations (i.e., those that lead to the highest percentage of correct placement decisions).

### Logistic Regression Weights and Correlations

This table contains the estimated logistic regression weights used to calculate the chances of success in each course. The weights associated with each set of placement variables are shown with the corresponding significance level (p-value). This information can be used to calculate the chances of success for a given student.

A p-value is an estimate of the probability that a regression weight of magnitude equal to that reported in the table would occur by chance if the true regression weight were 0; the smaller the p-value, the more highly "statistically significant" the regression weight is. The correlation between the placement variables and course grades also is listed.

		B or higher		C or higher		
Course	Placement variable(s)	Logistic regression weight	P-value	Logistic regression weight	P-value	Correlation
PSYCHOLOGY	Intercept	-5.60		-1.97		
	ACT Reading Score	0.27	0.0037	0.15	0.08	0.47
	Intercept	-16.21		-6.54		
	High School Social Studies Grade Average	4.41	0.0022	2.23	0.0074	0.57
	Intercept	-23.67		-8.12		
	ACT Reading Score and High School Social Studies Grade Average	0.30 4.69	0.0145 0.0036	0.09 2.12	0.3257 0.0156	0.65