


Forest Plot

Studies

Effect Size

100 Abu–Rabia & Taha, 2004

101 Spelling		-3.06
102 Spelling		-0.41
103 Spelling		-2.65

















200 Abu–Rabia et al., 2003

201 Spelling		-3.82
--------------	--	-------

300 Ackerman et al., 1986

301 Handwritng		-0.04
----------------	---	-------

400 Alfonso et al., 2020

401 Handwriting		-0.08
402 Handwriting		-0.31
403 Handwriting		-0.44
404 Handwriting		-0.15
405 Handwriting		-0.42
406 Handwriting		-0.21
407 Handwriting		-0.30
408 Handwriting		-0.26
409 Spelling		-0.57
410 Spelling		-0.60
411 Spelling		-0.26
412 spelling		-0.21
413 Spelling		-1.16
414 Spelling		-1.15
415 Spelling		-0.82
416 Spelling		-0.82


500 Anderson, 1988

501 Output		-0.08
502 Quality		-1.31
503 Syntax		-2.11

600 Angelelli et al., 2004

601 Spelling		-1.19
602 Spelling		-1.24
603 Spelling		-2.31
604 Spelling		-0.54

700 Angelelli et al., 2010

701 Spelling		-1.40
702 Spelling		-1.36
703 Spelling		-2.28
704 Spelling		-1.52
705 Spelling		-0.89
706 Spelling		-1.00
707 Spelling		-2.28
708 Spelling		-0.80

800 Angelelli et al., 2016

801 Spelling		-0.47
--------------	---	-------


900 Baluch & Danaye–Tousi, 2007

901 Spelling		-0.76
902 Spelling		-0.97

1000 Barenbaum et al., 1987

1001 Quality		-0.10
1002 Quality		-0.04

1100 Barth et al., 2010

1101 Handwriitng		-0.44
1102 Handwriitng		-0.86
1103 Spelling		-3.06
1104 Spelling		-2.19

1200 Bekebrede et al., 2007

1201 Spelling		-0.51
1202 Spelling		-0.26

1300 Bishop et al., 2009

1301 Spelling		-1.36
---------------	---	-------


1400 Black, 1973

1401 Handwriitng		-0.05
------------------	---	-------


1500 Borzone de Manrique & Signorini, 1994

1501 Spelling		-1.39
---------------	--	-------

1600 Bravo–Valdivesio, 1995

1601 Spelling		-0.92
---------------	---	-------



1700 Broekkamp et al., 2009

1701 Quality		-1.25
1702 Quality		-1.15
1703 Quality		-1.57
1704 Quality		-1.47
1705 Quality		-1.57

1800 Bryant & Nunes, 1997

1801 Spelling		-1.80
1802 Spelling		-1.10
1803 Spelling		-1.38
1804 Spelling		-1.36

1900 Carretti et al., 2013

1901 Ideation		-0.34
1902 Ideation		0.16
1903 Organization		-0.54
1904 Organization		-0.05
1905 Quality		-0.54
1906 Quality		-0.21
1907 Syntax		-1.10
1908 Syntax		-0.28
1909 Syntax		-0.19
1910 Vocabulary		-0.95
1911 Vocabulary		-0.46
1912 Vocabulary		-0.50
1913 Ideation		-0.23
1914 Organization		-0.58
1915 Quality		-0.79

2000 Carretti et al., 2016

2001 Organization		-1.44
2002 Quality		-0.96
2003 Quality		-1.33
2004 Spelling		-0.45
2005 Syntax		-1.68
2006 Vocabulary		-1.78
2007 Output		-0.25

2100 Carroll & Breadmore, 2016

2101 Spelling		-2.61
---------------	---	-------

2200 Cheng Lee & Al Otaiba, 2017

2201 Spelling		-1.88
---------------	---	-------

2300 Chik et al., 2012

2301 Syntax		-1.30
2302 Syntax		-1.27



2400 Chung et al., 2018

2401 Quality		-0.76
2402 Quality		-1.02

2500 Cox et al., 1990

2501 Organization		-0.84
2502 Organization		-1.23
2503 Organization		-1.17
2504 Organization		-1.24
2505 Organization		-0.60
2506 Organization		-0.54

2600 Cragg & Nation, 2006

2601 Ideation		-0.98
2602 Organization		-0.92
2603 Output		-0.04
2604 Output		-0.26
2605 Quality		-0.95
2606 Spelling		-0.27
2607 Syntax		0.34


2700 Curtin et al., 2001

2701 Spelling		-2.70
2702 Spelling		-2.02



2800 de Jong & van der Leij, 2003

2801 Spelling		-2.58
2802 Spelling		-1.80

2900 Diamanti et al., 2013

2901 Syntax		-1.26
2902 Syntax		-1.20
2903 Syntax		-1.71
2904 Syntax		-1.37
2905 Syntax		-1.03
2906 Syntax		-1.45
2907 Syntax		-1.59
2908 Syntax		-1.61
2909 Syntax		-0.95
2910 Syntax		-1.20

3000 Diamanti et al., 2016

3001 Spelling		-1.42
3002 Spelling		-1.77
3003 Spelling		-1.35
3004 Spelling		-1.60
3005 Spelling		-1.07
3006 Spelling		-0.75
3007 Spelling		-1.24
3008 Spelling		-1.38
3009 Spelling		-1.30
3010 Spelling		-1.71

3100 Ding et al., 2015

3101 Spelling		-1.00
---------------	---	-------

3200 Diuk et al., 2019

3201 Spelling		-0.82
---------------	---	-------

3300 Duff et al., 2012

3301 Spelling		-1.16
3302 Spelling		-0.74

3400 Egan & Pring, 2004

3401 Spelling		-3.82
3402 Spelling		-0.77
3403 Spelling		-0.38
3404 Spelling		-0.06

3500 Elbeheri & Everatt, 2007

3501 Spelling		-1.09
---------------	---	-------

3600 Fazio et al., 2020

3601 Spelling		-0.99
3602 Spelling		-1.16

3700 Fletcher et al., 1993

3701 Spelling		-1.560
3702 Spelling		-1.57
3703 Spelling		-1.52

3800 Foorman et al., 1996

3801 Spelling		-1.03
3802 Spelling		-1.10



3900 Geary & Gilger, 1984

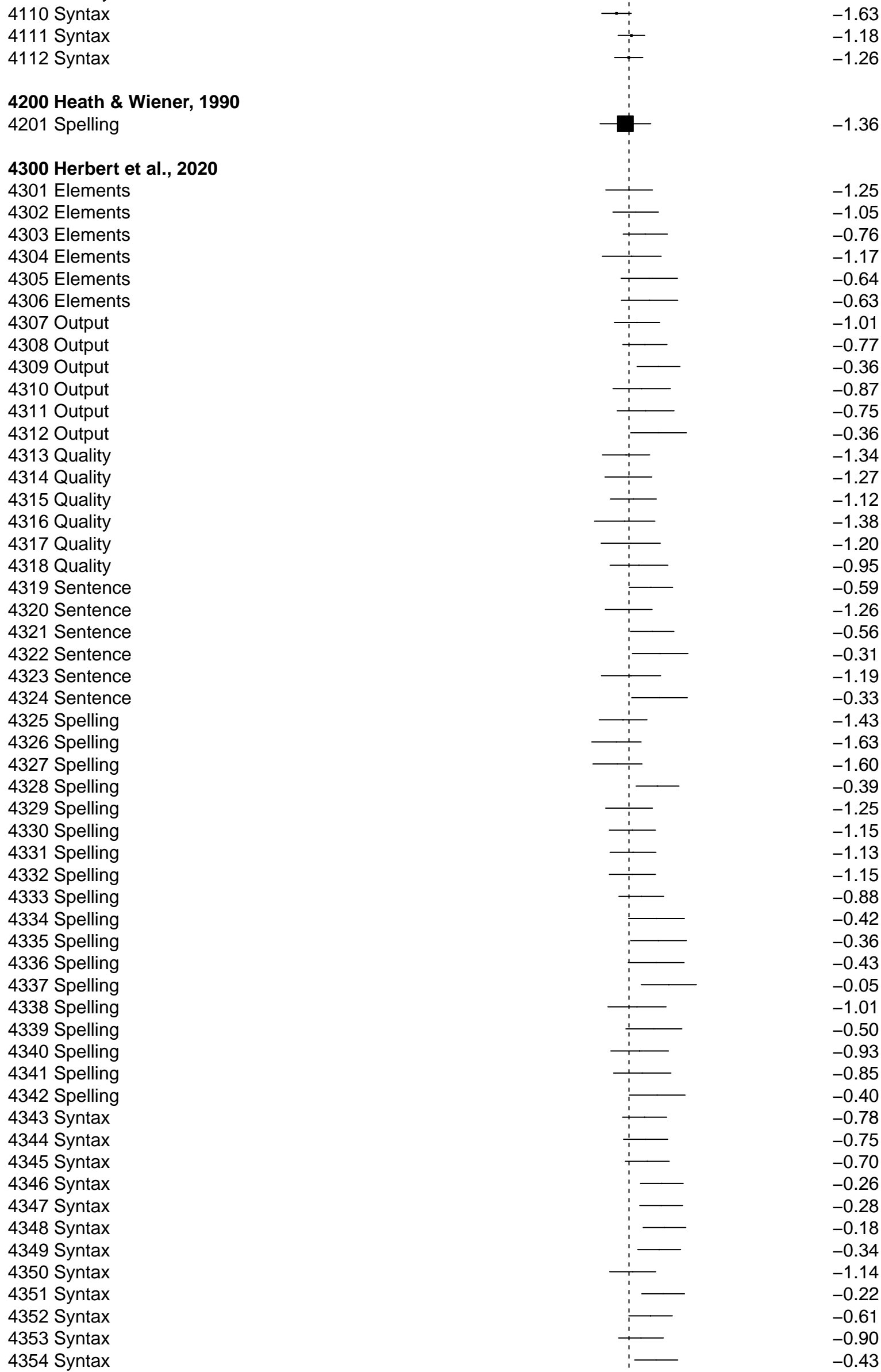
3901 Quality		-1.27
--------------	---	-------

4000 Goulandris et al., 2000

4001 Spelling		-2.16
4002 Spelling		-1.71

4100 Guan et al., 2013

4101 Quality		-0.89
4102 Quality		-1.15
4103 Quality		-1.60
4104 Quality		-1.16
4105 Quality		-0.77
4106 Quality		-1.11
4107 Quality		-1.39
4108 Quality		-1.06
4109 Quality		-1.57



4355 Syntax	-1.00
4356 Syntax	-1.17
4357 Syntax	-0.67
4358 Syntax	-0.33
4359 Syntax	-0.46
4360 Syntax	-0.21
4361 Syntax	0.24
4362 Syntax	-0.87
4363 Syntax	-0.67
4364 Syntax	-0.54
4365 Syntax	-0.91
4366 Syntax	-0.05
4367 Vocabulary	-1.27
4368 Vocabulary	-1.39
4369 Vocabulary	-0.88
4370 Vocabulary	-1.26
4371 Vocabulary	-1.34
4372 Vocabulary	-0.87

4400 Hsu, 2013

4401 Spelling	-2.18
---------------	-------

4500 Jian, 2017

4501 Spelling	-0.85
---------------	-------

4600 Juel, 1988

4601 Quality	-0.96
4602 Quality	-0.88
4603 Quality	-0.89
4604 Quality	-1.19
4605 Spelling	-2.82
4606 Spelling	-1.86
4607 Spelling	-1.06
4608 Spelling	-1.91
4609 Spelling	-2.18
4610 Spelling	-1.79
4611 Spelling	-1.77
4612 Spelling	-1.76

4700 Katzir et al., 2006

4701 Spelling	-2.49
---------------	-------

4800 Komesidou, 2018

4801 Spelling	-2.24
---------------	-------

4900 Kroese et al., 2000

4901 Spelling	-2.57
---------------	-------

5000 Kugler, 1993

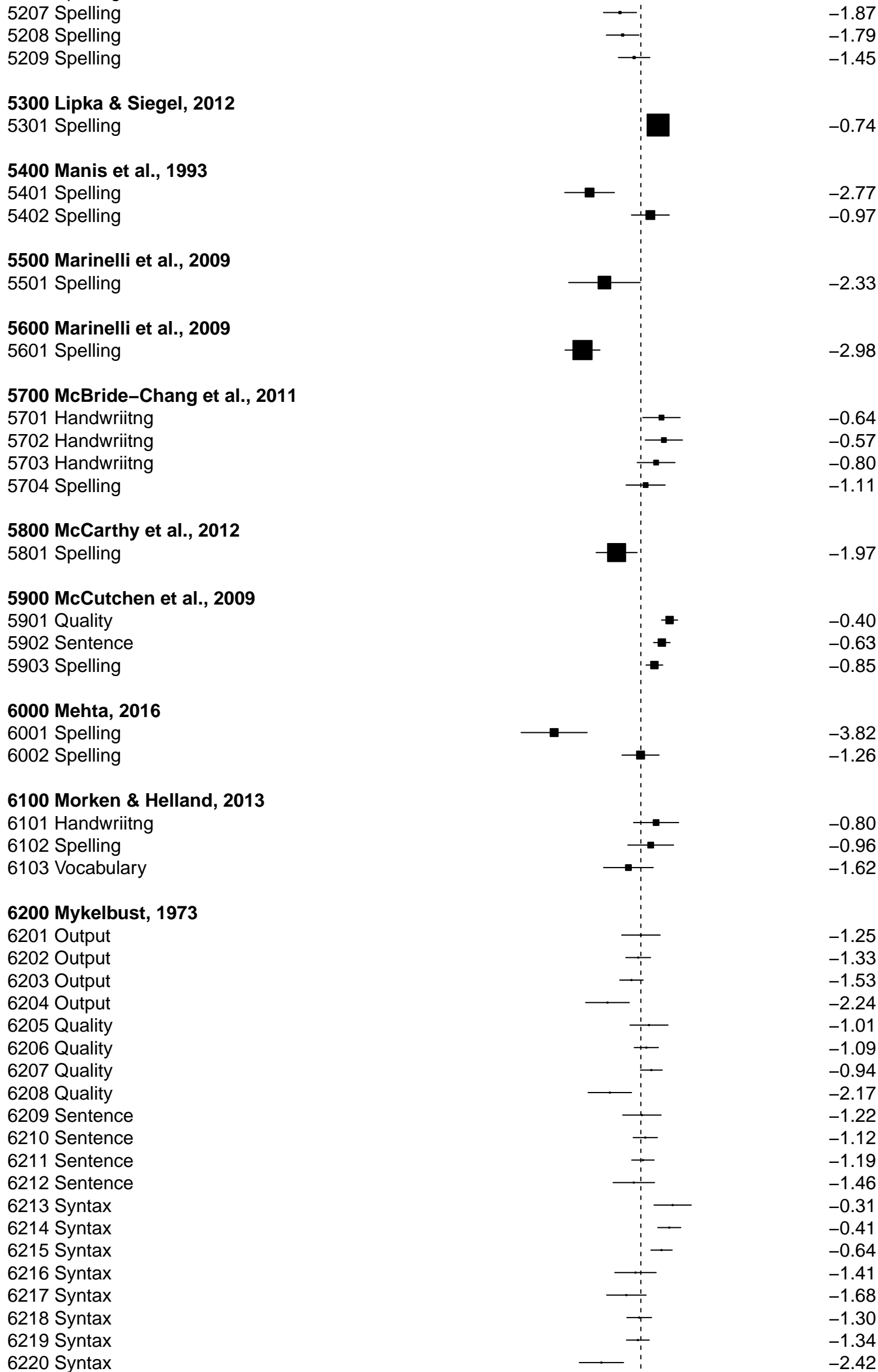
5001 Spelling	-0.92
---------------	-------

5100 Larkin & Snowling, 2008

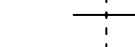


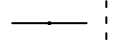



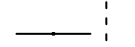











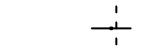
5101 Spelling	-2.05
5102 Spelling	-0.96

5200 Leach et al., 2003






















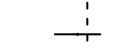















5201 Spelling	0.08
5202 Spelling	-0.51
5203 Spelling	-0.46
5204 Spelling	-1.40
5205 Spelling	-1.61
5206 Spelling	-1.40



6200 Mykelbust, 1973

6201 Output		-1.25
6202 Output		-1.33
6203 Output		-1.53
6204 Output		-2.24
6205 Quality		-1.01
6206 Quality		-1.09
6207 Quality		-0.94
6208 Quality		-2.17
6209 Sentence		-1.22
6210 Sentence		-1.12
6211 Sentence		-1.19
6212 Sentence		-1.46
6213 Syntax		-0.31
6214 Syntax		-0.41
6215 Syntax		-0.64
6216 Syntax		-1.41
6217 Syntax		-1.68
6218 Syntax		-1.30
6219 Syntax		-1.34
6220 Syntax		-2.42

6300 Ndlovu, 2010

6301 Elements		-1.46
6302 Elements		-1.53
6303 Elements		-1.17
6304 Output		-0.76
6305 Output		-0.70
6306 Output		-0.79
6307 Quality		-1.83
6308 Quality		-1.82
6309 Quality		-1.60
6310 Sentence		-0.87
6311 Sentence		-0.63
6312 Sentence		-1.19
6313 Sentence		-1.01
6314 Sentence		-0.91
6315 Sentence		-0.61
6316 Spelling		-1.78
6317 Spelling		-0.73
6318 Spelling		-1.42
6319 Spelling		-2.02
6320 Spelling		-1.42
6321 Spelling		-1.42
6322 Spelling		-2.18
6323 Spelling		-1.38
6324 Spelling		-1.40
6325 Syntax		-1.09
6326 Syntax		-0.06
6327 Syntax		-1.02
6328 Syntax		-0.80
6329 Syntax		-1.29
6330 Syntax		-0.78
6331 Syntax		-1.53
6332 Syntax		-1.29
6333 Syntax		-0.61
6334 Syntax		-1.03
6335 Vocabulary		-1.55
6336 Vocabulary		-1.82
6337 Vocabulary		-1.36

6400 Negro et al., 2014

6401 Spelling	-0.59
6402 Spelling	-0.51
6403 Spelling	-0.77
6404 Spelling	-0.06
6405 Spelling	-1.19
6406 Spelling	-0.54
6407 Spelling	-0.83
6408 Spelling	-0.49

6500 Nielsen et al., 2018

6501 Handwriting	-0.77
6502 Handwriting	-0.82
6503 Handwriting	-1.20
6504 Sentence	-0.92
6505 Sentence	-0.88

6600 Nodine et al., 1985

6601 Quality	-0.57
--------------	-------

6700 Pak et al., 2005

6701 Handwriitng	-0.43
6702 Handwriitng	-0.52
6703 Handwriitng	0.13
6704 Handwriitng	-0.70
6705 Handwriitng	-0.80
6706 Handwriitng	0.25
6707 Handwriitng	-0.40
6708 Handwriitng	-0.75
6709 Handwriitng	0.10
6710 Handwriitng	0.47
6711 Handwriitng	-1.19
6712 Handwriitng	-0.56
6713 Handwriitng	-0.82
6714 Handwriitng	-0.86
6715 Handwriitng	-0.24
6716 Handwriitng	-0.68
6717 Handwriitng	-0.87
6718 Handwriitng	0.02
6719 Handwriitng	-0.45
6720 Handwriitng	-1.19
6721 Handwriitng	0.03
6722 Handwriitng	-1.20
6723 Handwriitng	-2.17
6724 Handwriitng	-0.32
6725 Handwriitng	0.25
6726 Handwriitng	-1.58
6727 Handwriitng	-0.75
6728 Handwriitng	-0.78
6729 Handwriitng	-1.69
6730 Handwriitng	-0.17

6800 Partanen et al., 2018





6801 Spelling	-1.82
6802 Spelling	-2.20

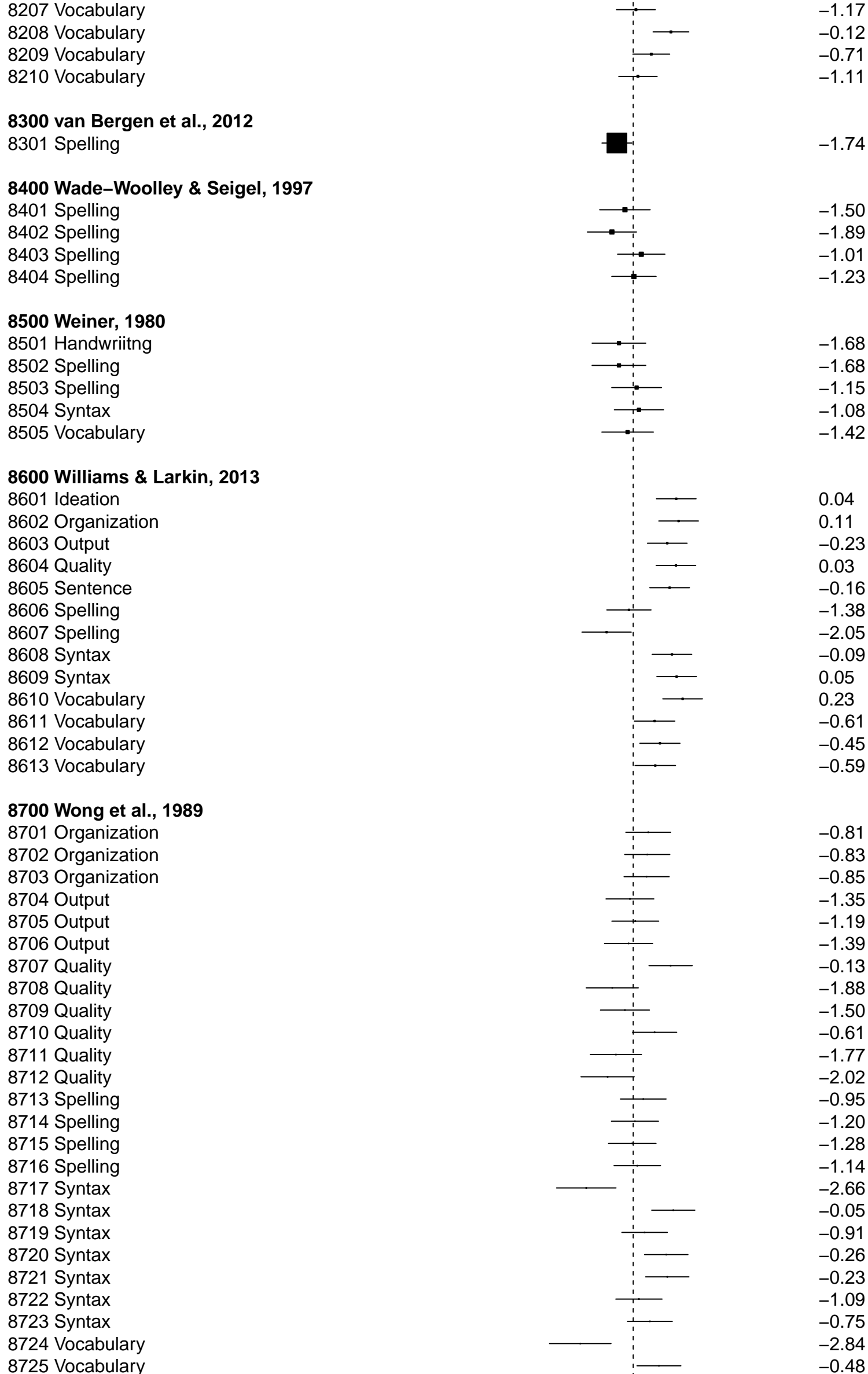
6900 Peter et al., 2011

6901 Handwriitng	-0.07
6902 Handwriitng	-0.57

7000 Purvis & Tannock, 1997

7001 Spelling	-1.57
---------------	-------

7100 Rakhlin et al., 20197101 Spelling  -1.16**7200 Ruberto et al., 2016**7201 Spelling  -1.777202 Spelling  -0.09**7300 Scarborough, 1989**7301 Spelling  -1.437302 Spelling  -0.79**7400 Siegel & Ryan, 1989**7401 Spelling  -1.597402 Spelling  -0.897403 Spelling  -0.987404 Spelling  -0.647405 Spelling  -1.227406 Spelling  -0.16**7500 Smith-Lock, 1991**7501 Syntax  -2.94**7600 Snowling et al., 1996**7601 Spelling  -1.547602 Spelling  -1.187603 Spelling  -1.377604 Spelling  -3.827605 Spelling  -1.01**7700 Stanley & Watson, 1980**7701 Cross outs  -0.697702 Output  -0.367703 Spelling  -1.097704 Syntax  -0.807705 Time  1.13**7800 Sumner et al., 2013**7801 Handwriitng  -0.537802 Output  -1.227803 Quality  -1.687804 Rate  -0.937805 Time  -0.83**7900 Sumner et al., 2014**7901 Handwriitng  -0.847902 Handwriitng  -1.55**8000 Surányi et al., 2009**8001 Spelling  -2.81**8100 Terepocki et al., 2002**8101 Handwriitng  -1.938102 Handwriitng  -0.66**8200 Torrance et al., 2016**8201 Elements  -1.088202 Ideation  -0.478203 Organization  -0.958204 Output  -0.488205 Quality  -0.578206 Spelling  -1.28



8726 Vocabulary
8727 Vocabulary

-1.21
-1.25

