

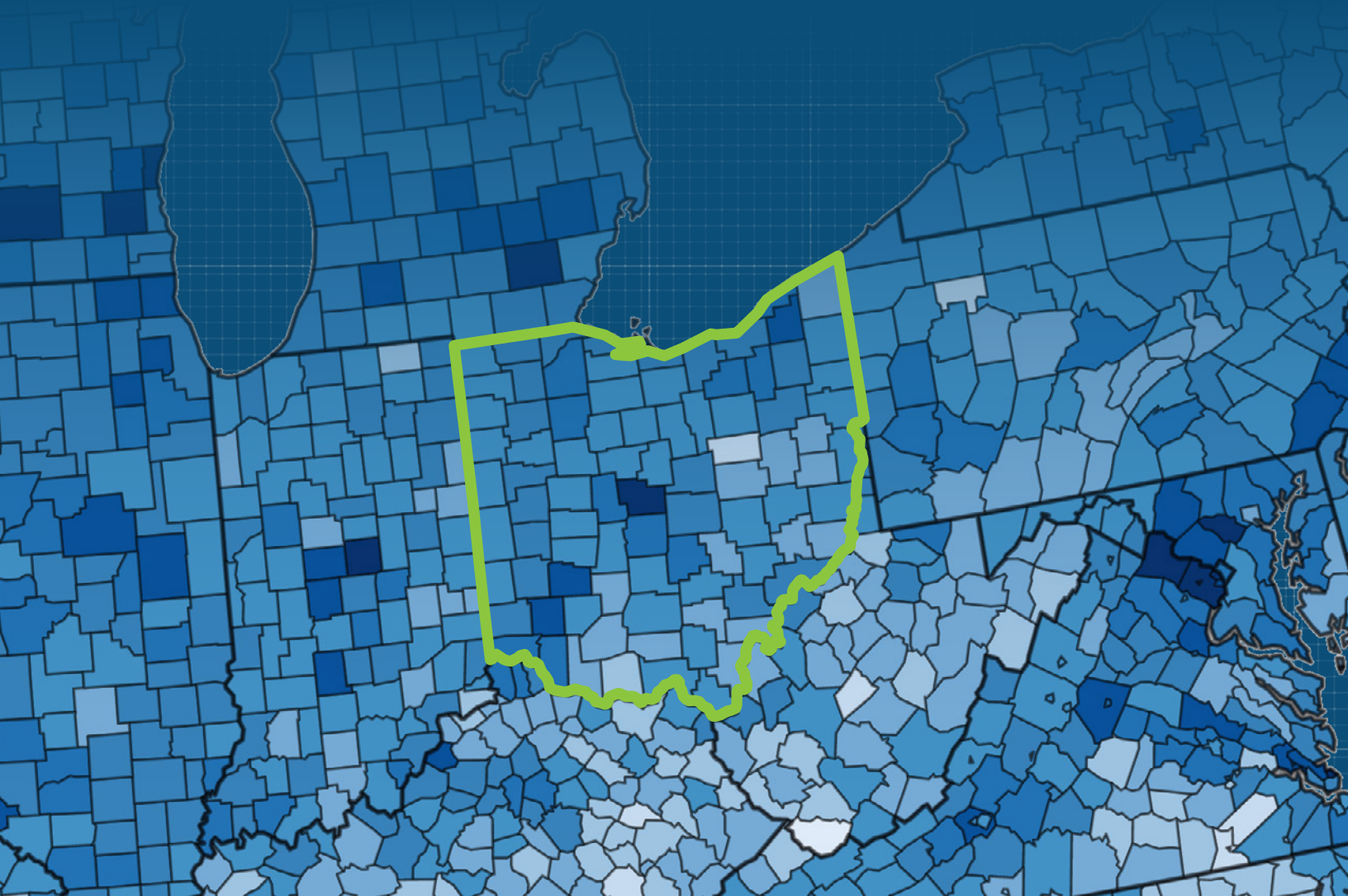
# Comparison Charts of State and County Estimates

Program for the International Assessment of Adult Competencies (PIAAC)

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## Ohio

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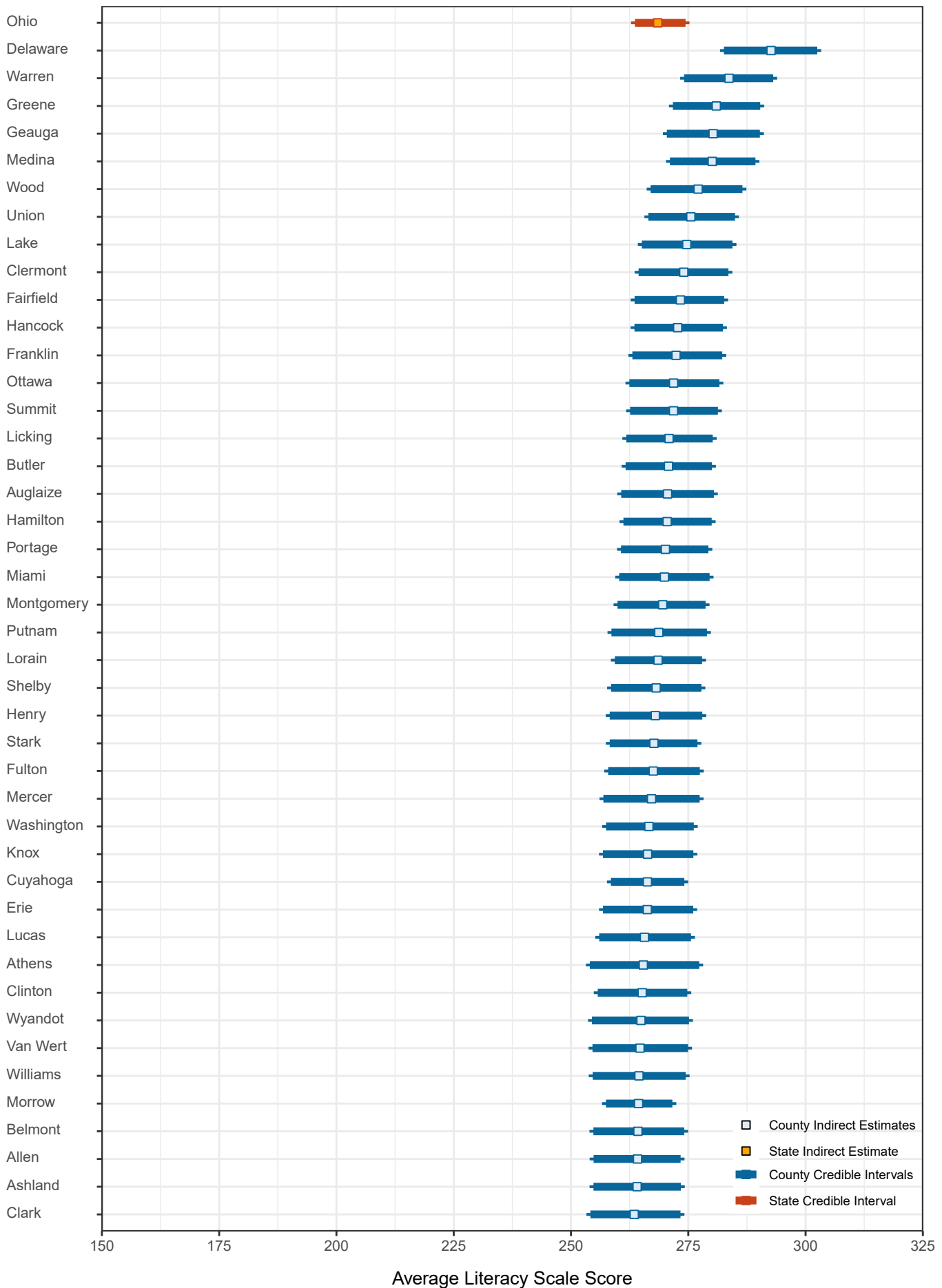
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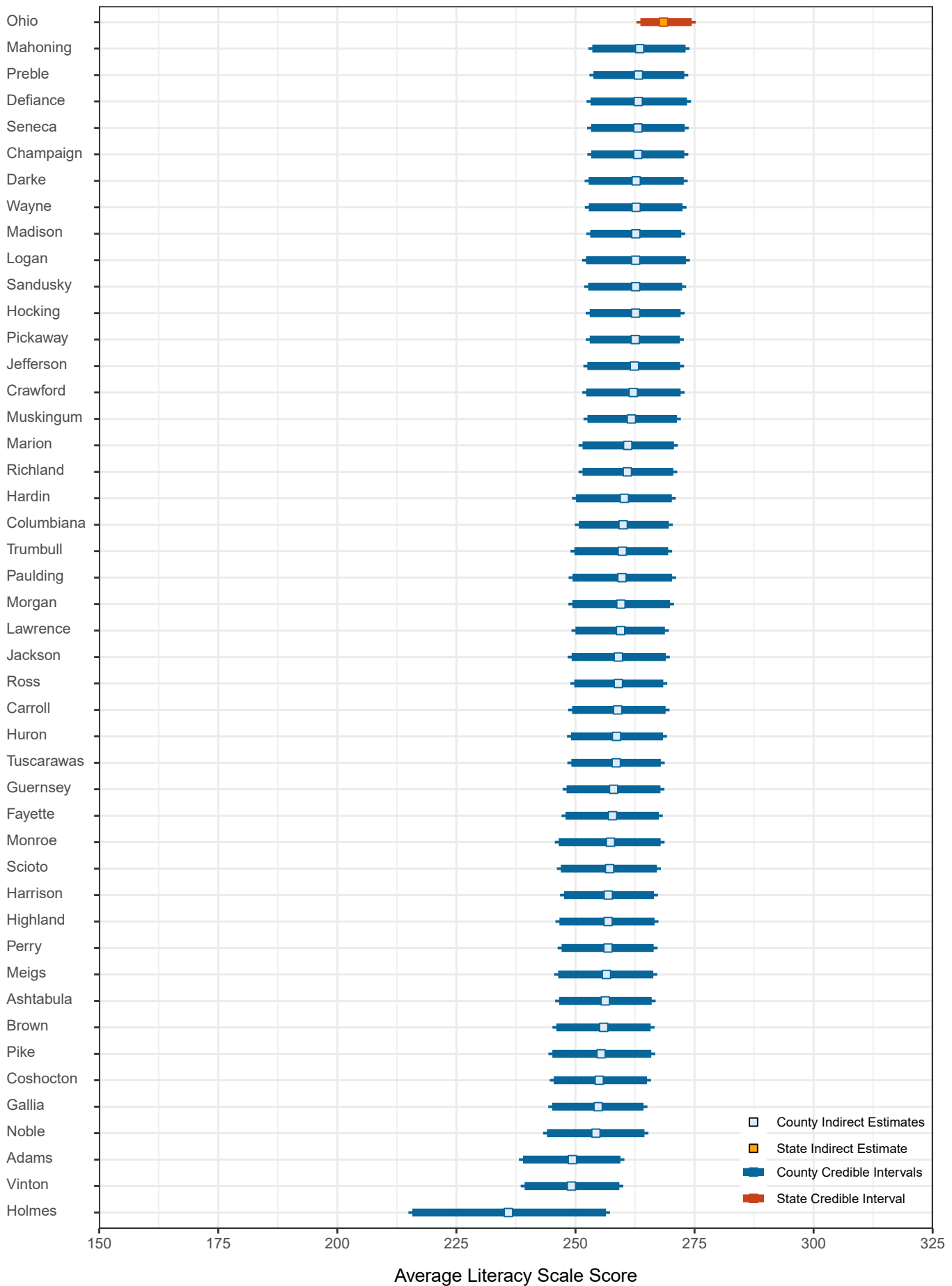
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# Average Literacy Scale Scores of Counties in Ohio: 2012/2014/2017



See notes at end of chart.

# Average Literacy Scale Scores of Counties in Ohio: 2012/2014/2017—Continued



SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

Average Literacy Scale Scores of Counties in Ohio: 2012/2014/2017

County	Indirect estimate	Lower bound of credible interval	Upper bound of credible interval
Ohio	268	264	274
Delaware	293	283	302
Warren	284	274	293
Greene	281	272	290
Geauga	280	270	290
Medina	280	271	289
Wood	277	267	287
Union	276	266	285
Lake	275	265	284
Clermont	274	264	284
Fairfield	273	264	283
Hancock	273	264	282
Franklin	272	263	282
Ottawa	272	262	282
Summit	272	263	281
Licking	271	262	280
Butler	271	262	280
Auglaize	271	261	280
Hamilton	270	261	280
Portage	270	261	279
Miami	270	260	280
Montgomery	270	260	279
Putnam	269	259	279
Lorain	269	259	278
Shelby	268	259	278
Henry	268	258	278
Stark	268	258	277
Fulton	268	258	277
Mercer	267	257	277
Washington	267	257	276
Knox	266	257	276
Cuyahoga	266	259	274
Erie	266	257	276
Lucas	266	256	276
Athens	265	254	277
Clinton	265	256	275
Wyandot	265	254	275
Van Wert	265	255	275
Williams	264	255	274
Morrow	264	257	272
Belmont	264	255	274
Allen	264	255	273
Ashland	264	255	273
Clark	263	254	273
Mahoning	263	254	273
Preble	263	254	273
Defiance	263	253	273
Seneca	263	253	273
Champaign	263	253	273
Darke	263	253	273
Wayne	263	253	272
Madison	263	253	272
Logan	263	252	273
Sandusky	263	253	272

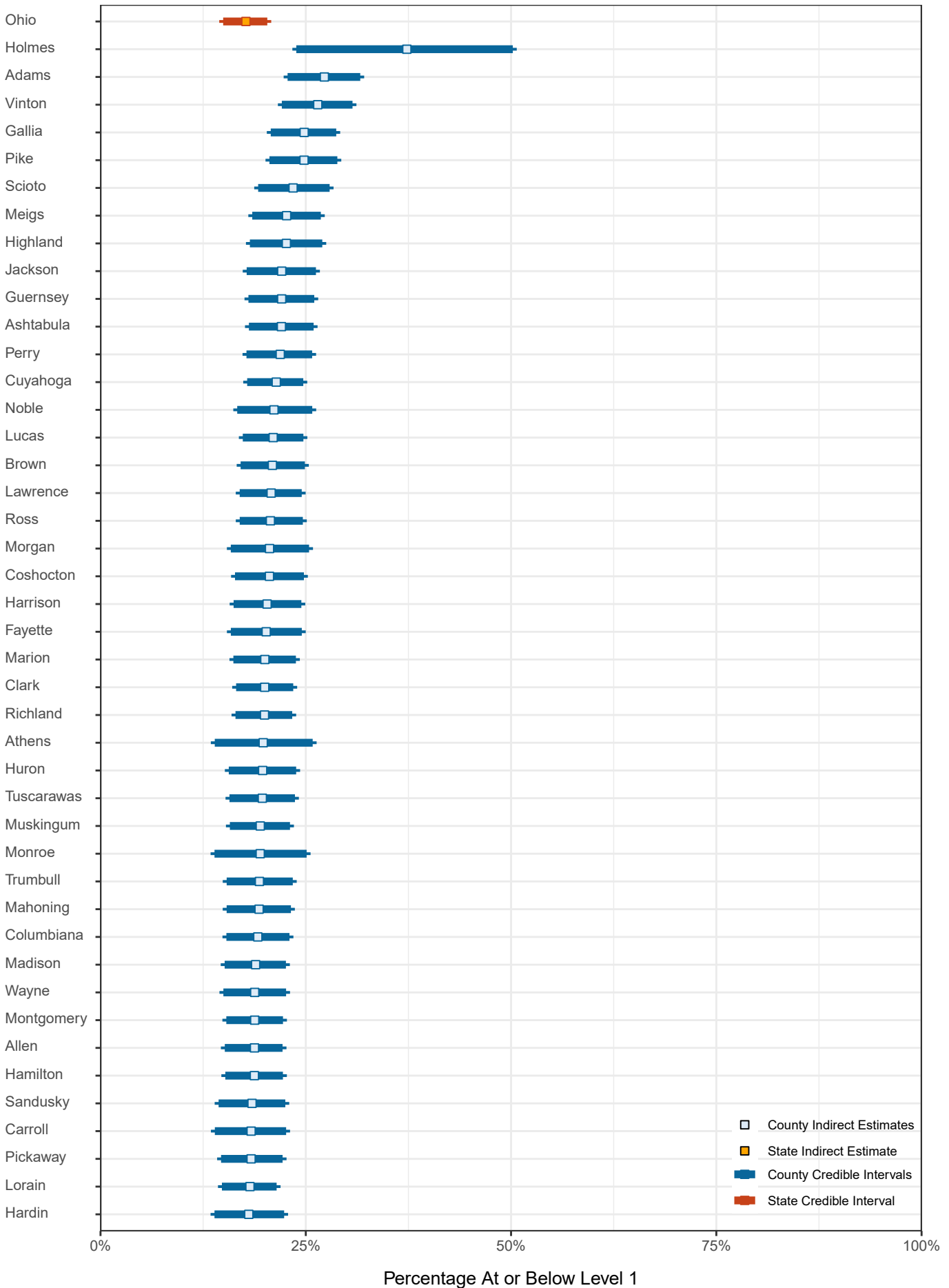
See notes at end of table.

Average Literacy Scale Scores of Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate	Lower bound of credible interval	Upper bound of credible interval
Hocking	263	253	272
Pickaway	263	253	272
Jefferson	262	252	272
Crawford	262	252	272
Muskingum	262	253	271
Marion	261	251	271
Richland	261	251	271
Hardin	260	250	270
Columbiana	260	251	270
Trumbull	260	250	269
Paulding	260	249	270
Morgan	260	249	270
Lawrence	259	250	269
Jackson	259	249	269
Ross	259	250	268
Carroll	259	249	269
Huron	259	249	268
Tuscarawas	259	249	268
Guernsey	258	248	268
Fayette	258	248	268
Monroe	257	246	268
Scioto	257	247	267
Harrison	257	248	266
Highland	257	247	267
Perry	257	247	266
Meigs	257	246	266
Ashtabula	256	247	266
Brown	256	246	266
Pike	255	245	266
Coshocton	255	245	265
Gallia	255	245	264
Noble	254	244	264
Adams	249	239	259
Vinton	249	239	259
Holmes	236	216	256

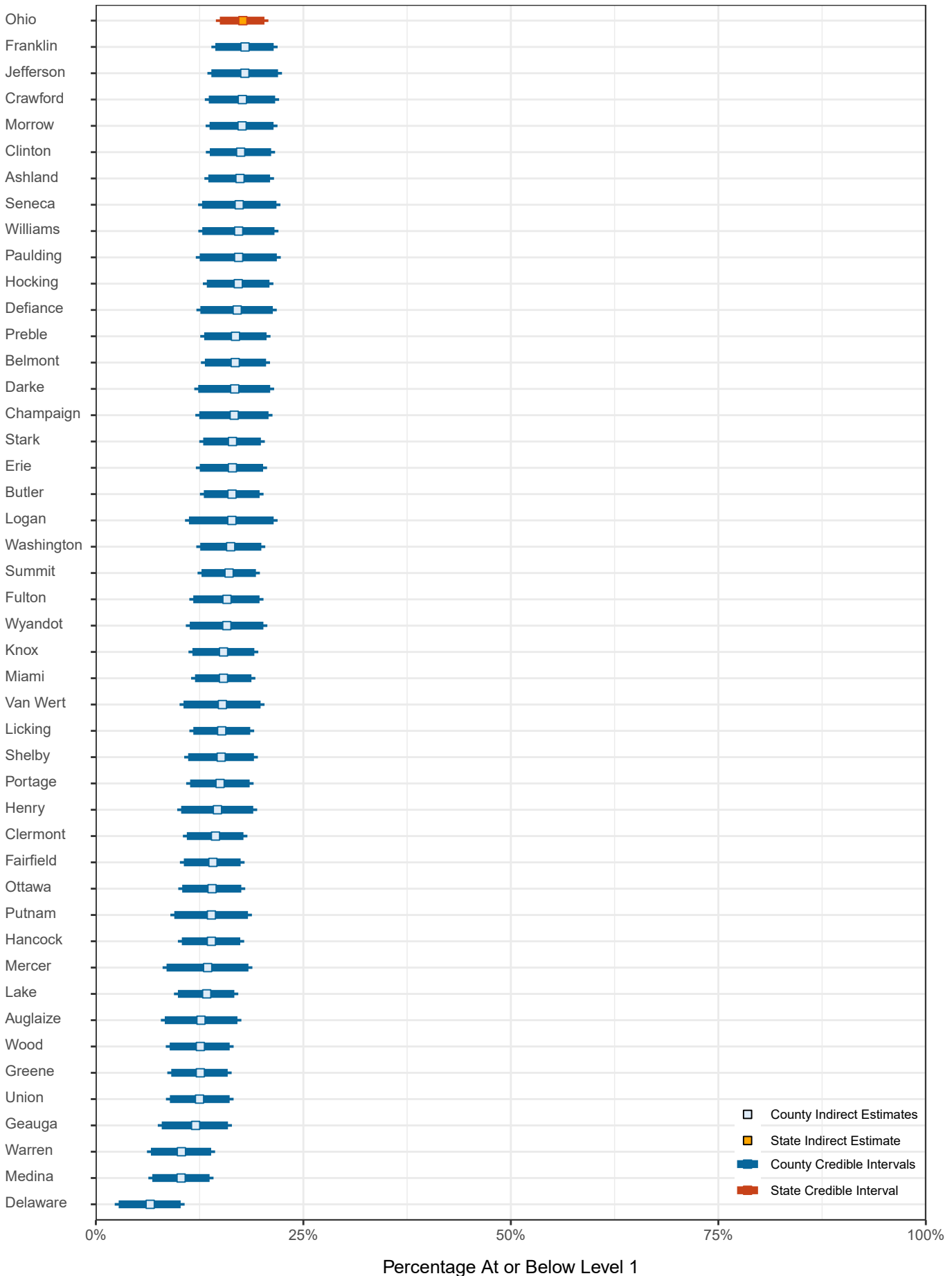
SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

# Percentage with Literacy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017



See notes at end of chart.

Percentage with Literacy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017—Continued



SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.



Percentage with Literacy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Ohio	18	15	20
Holmes	37	24	50
Adams	27	23	32
Vinton	26	22	31
Gallia	25	21	29
Pike	25	21	29
Scioto	23	19	28
Meigs	23	18	27
Highland	23	18	27
Jackson	22	18	26
Guernsey	22	18	26
Ashtabula	22	18	26
Perry	22	18	26
Cuyahoga	21	18	25
Noble	21	17	26
Lucas	21	17	25
Brown	21	17	25
Lawrence	21	17	25
Ross	21	17	25
Morgan	21	16	25
Coshocton	21	16	25
Harrison	20	16	24
Fayette	20	16	25
Marion	20	16	24
Clark	20	17	23
Richland	20	16	23
Athens	20	14	26
Huron	20	16	24
Tuscarawas	20	16	24
Muskingum	19	16	23
Monroe	19	14	25
Trumbull	19	15	23
Mahoning	19	15	23
Columbiana	19	15	23
Madison	19	15	23
Wayne	19	15	23
Montgomery	19	15	22
Allen	19	15	22
Hamilton	19	15	22
Sandusky	18	14	23
Carroll	18	14	23
Pickaway	18	15	22
Lorain	18	15	21
Hardin	18	14	22
Franklin	18	14	21
Jefferson	18	14	22
Crawford	18	14	22
Morrow	18	14	21
Clinton	17	14	21
Ashland	17	14	21
Seneca	17	13	22
Williams	17	13	22
Paulding	17	13	22
Hocking	17	13	21

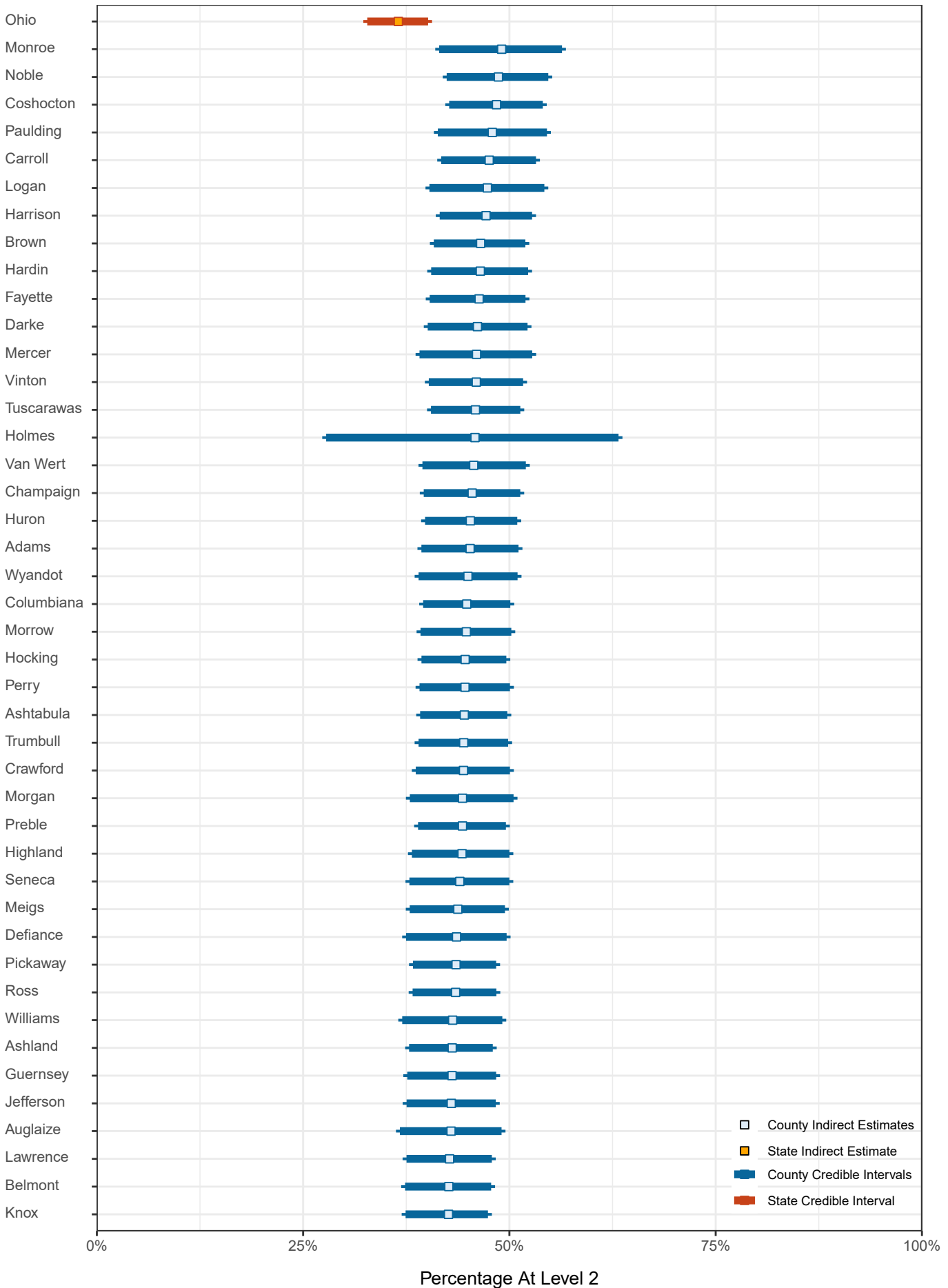
See notes at end of table.

Percentage with Literacy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Defiance	17	13	21
Preble	17	13	21
Belmont	17	13	21
Darke	17	12	21
Champaign	17	12	21
Stark	16	13	20
Erie	16	13	20
Butler	16	13	20
Logan	16	11	21
Washington	16	13	20
Summit	16	13	19
Fulton	16	12	20
Wyandot	16	11	20
Knox	15	12	19
Miami	15	12	19
Van Wert	15	11	20
Licking	15	12	19
Shelby	15	11	19
Portage	15	11	19
Henry	15	10	19
Clermont	14	11	18
Fairfield	14	11	17
Ottawa	14	10	18
Putnam	14	9	18
Hancock	14	10	17
Mercer	13	9	18
Lake	13	10	17
Auglaize	13	8	17
Wood	13	9	16
Greene	13	9	16
Union	12	9	16
Geauga	12	8	16
Warren	10	7	14
Medina	10	7	14
Delaware	7	3	10

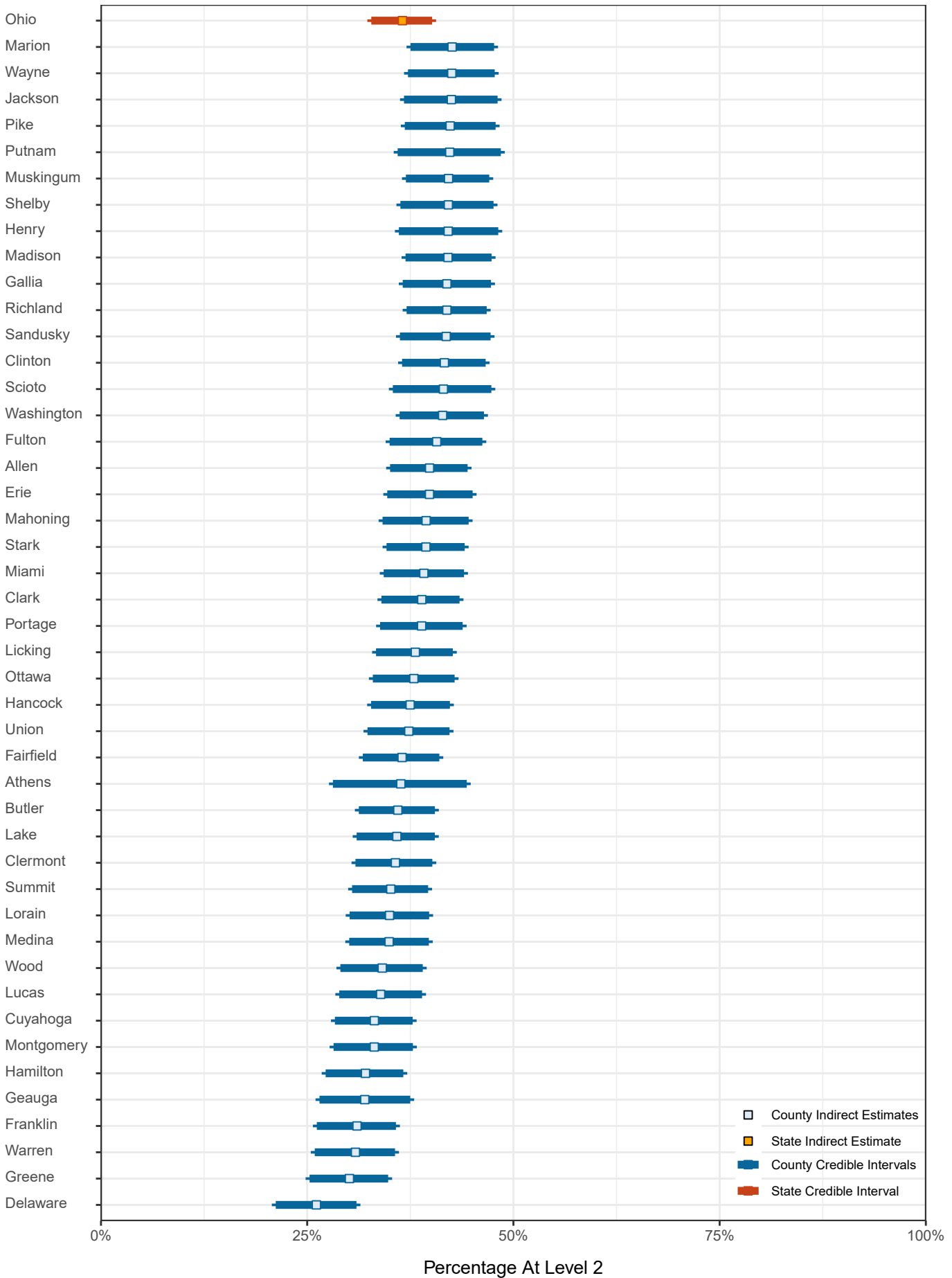
SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

# Percentage with Literacy Skills At Level 2 in Counties in Ohio: 2012/2014/2017



See notes at end of chart.

Percentage with Literacy Skills At Level 2 in Counties in Ohio: 2012/2014/2017—Continued



SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

Percentage with Literacy Skills At Level 2 in Counties in Ohio: 2012/2014/2017

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Ohio	37	33	40
Monroe	49	41	56
Noble	49	42	55
Coshocton	48	43	54
Paulding	48	41	55
Carroll	48	42	53
Logan	47	40	54
Harrison	47	42	53
Brown	47	41	52
Hardin	46	41	52
Fayette	46	40	52
Darke	46	40	52
Mercer	46	39	53
Vinton	46	40	52
Tuscarawas	46	40	51
Holmes	46	28	63
Van Wert	46	39	52
Champaign	45	40	51
Huron	45	40	51
Adams	45	39	51
Wyandot	45	39	51
Columbiana	45	40	50
Morrow	45	39	50
Hocking	45	39	50
Perry	45	39	50
Ashtabula	45	39	50
Trumbull	44	39	50
Crawford	44	39	50
Morgan	44	38	51
Preble	44	39	50
Highland	44	38	50
Seneca	44	38	50
Meigs	44	38	49
Defiance	44	37	50
Pickaway	44	38	48
Ross	43	38	48
Williams	43	37	49
Ashland	43	38	48
Guernsey	43	38	48
Jefferson	43	38	48
Auglaize	43	37	49
Lawrence	43	38	48
Belmont	43	37	48
Knox	43	37	47
Marion	43	38	48
Wayne	43	37	48
Jackson	42	37	48
Pike	42	37	48
Putnam	42	36	48
Muskingum	42	37	47
Shelby	42	36	48
Henry	42	36	48
Madison	42	37	47
Gallia	42	37	47

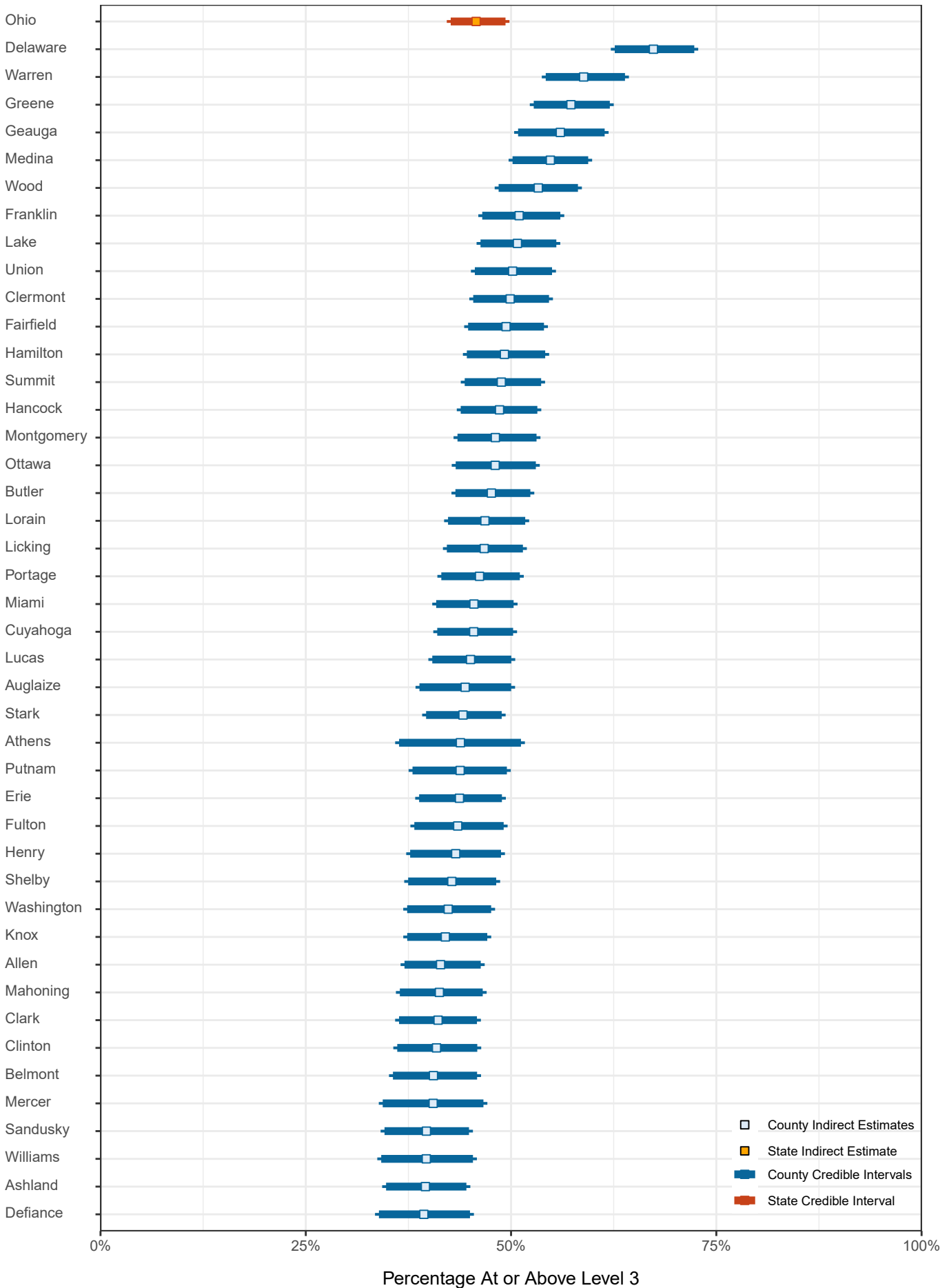
See notes at end of table.

Percentage with Literacy Skills At Level 2 in Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Richland	42	37	47
Sandusky	42	36	47
Clinton	42	37	47
Scioto	42	35	47
Washington	41	36	46
Fulton	41	35	46
Allen	40	35	44
Erie	40	35	45
Mahoning	39	34	45
Stark	39	35	44
Miami	39	34	44
Clark	39	34	43
Portage	39	34	44
Licking	38	33	43
Ottawa	38	33	43
Hancock	37	33	42
Union	37	32	42
Fairfield	37	32	41
Athens	36	28	44
Butler	36	31	40
Lake	36	31	40
Clermont	36	31	40
Summit	35	30	40
Lorain	35	30	40
Medina	35	30	40
Wood	34	29	39
Lucas	34	29	39
Cuyahoga	33	28	38
Montgomery	33	28	38
Hamilton	32	27	37
Geauga	32	26	37
Franklin	31	26	36
Warren	31	26	36
Greene	30	25	35
Delaware	26	21	31

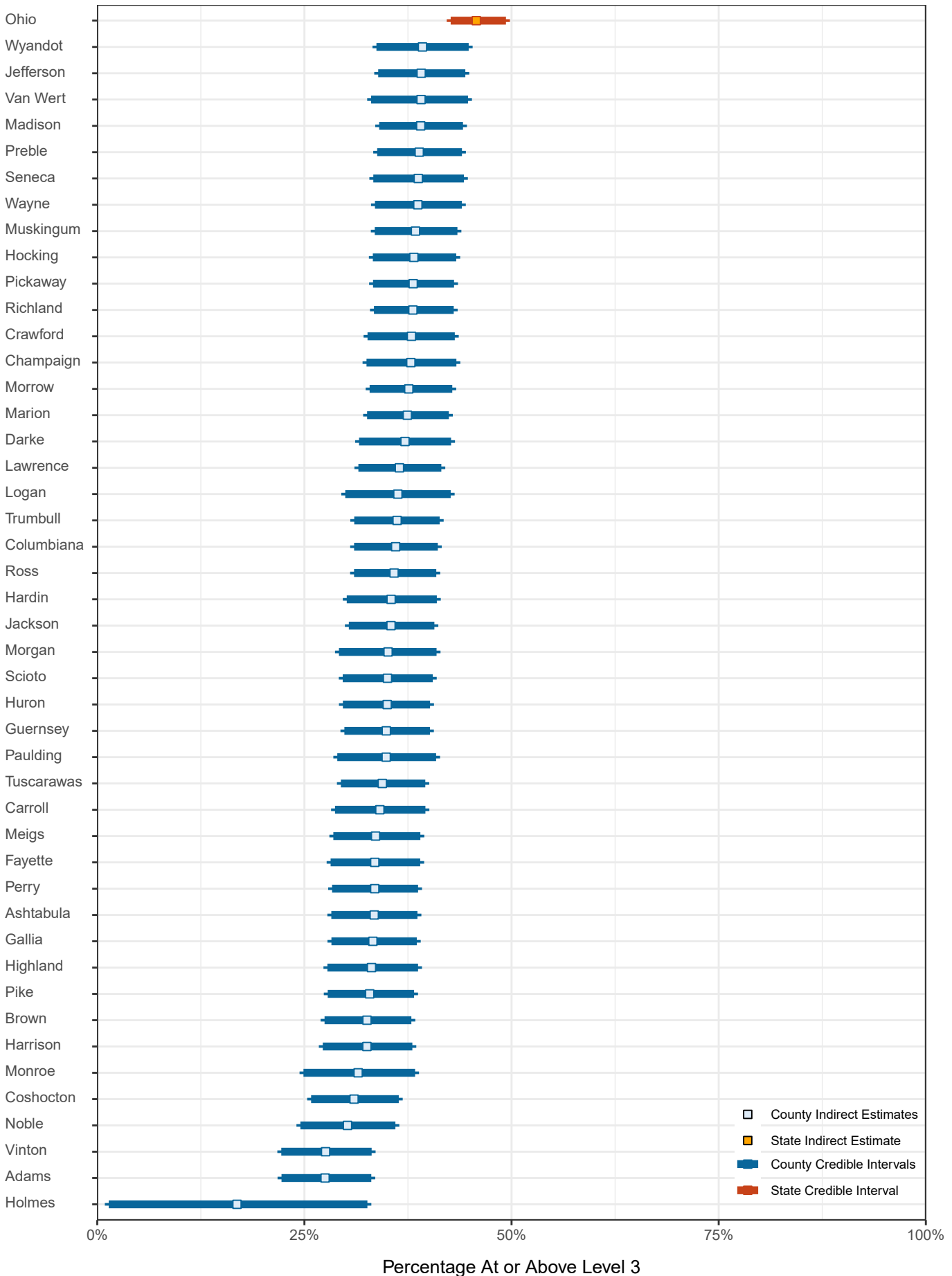
SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

# Percentage with Literacy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017



See notes at end of chart.

Percentage with Literacy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017—Continued



SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.



Percentage with Literacy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Ohio	46	43	49
Delaware	67	63	72
Warren	59	54	64
Greene	57	53	62
Geauga	56	51	61
Medina	55	50	59
Wood	53	48	58
Franklin	51	46	56
Lake	51	46	56
Union	50	46	55
Clermont	50	45	55
Fairfield	49	45	54
Hamilton	49	45	54
Summit	49	44	54
Hancock	49	44	53
Montgomery	48	43	53
Ottawa	48	43	53
Butler	48	43	52
Lorain	47	42	52
Licking	47	42	51
Portage	46	42	51
Miami	45	41	50
Cuyahoga	45	41	50
Lucas	45	40	50
Auglaize	44	39	50
Stark	44	40	49
Athens	44	36	51
Putnam	44	38	49
Erie	44	39	49
Fulton	44	38	49
Henry	43	38	49
Shelby	43	37	48
Washington	42	37	48
Knox	42	37	47
Allen	41	37	46
Mahoning	41	36	47
Clark	41	36	46
Clinton	41	36	46
Belmont	41	36	46
Mercer	41	34	47
Sandusky	40	35	45
Williams	40	34	45
Ashland	40	35	45
Defiance	39	34	45
Wyandot	39	34	45
Jefferson	39	34	44
Van Wert	39	33	45
Madison	39	34	44
Preble	39	34	44
Seneca	39	33	44
Wayne	39	34	44
Muskingum	38	33	43
Hocking	38	33	43
Pickaway	38	33	43

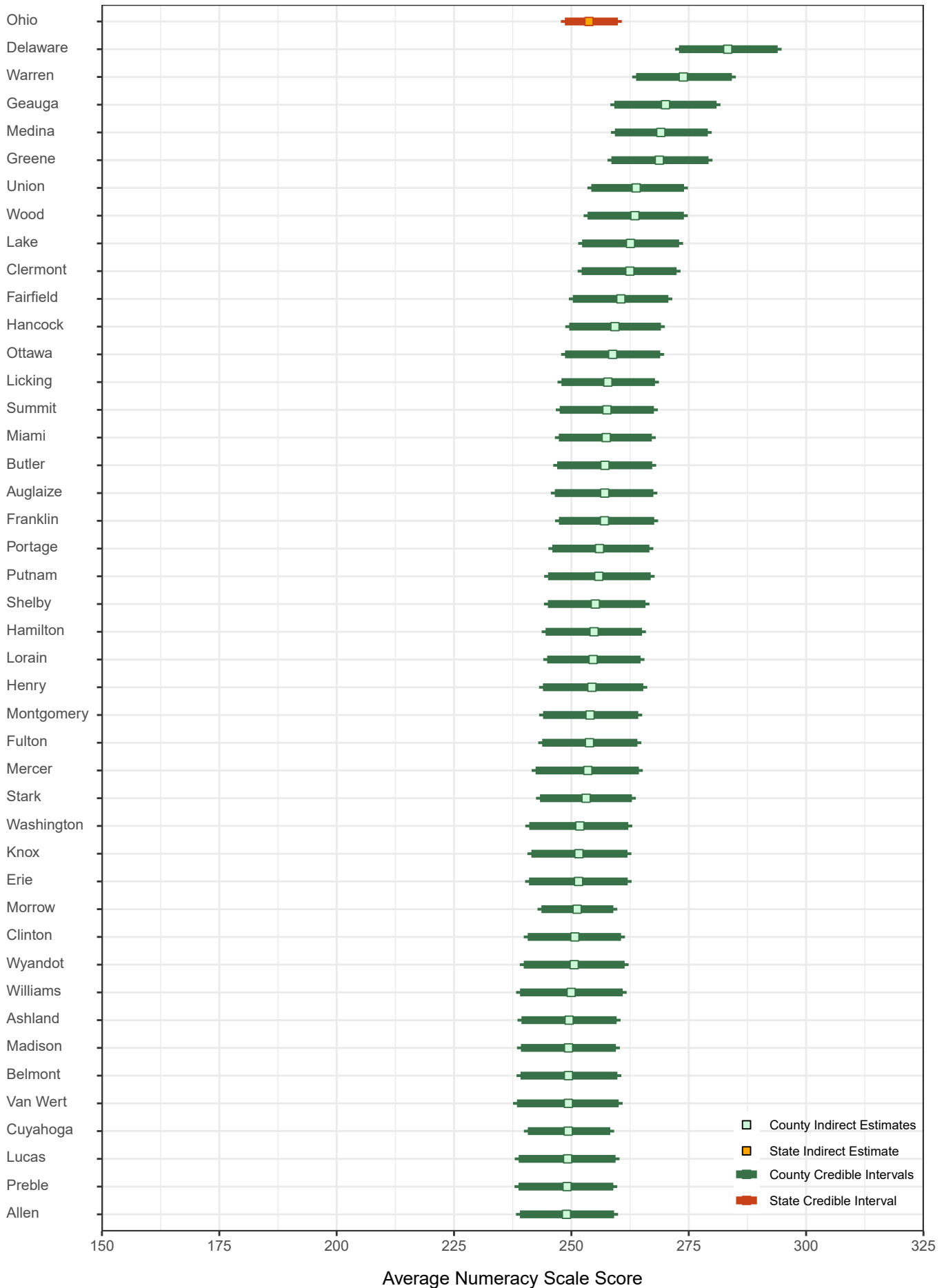
See notes at end of table.

Percentage with Literacy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Richland	38	33	43
Crawford	38	33	43
Champaign	38	32	43
Morrow	38	33	43
Marion	37	33	42
Darke	37	32	43
Lawrence	36	32	42
Logan	36	30	43
Trumbull	36	31	41
Columbiana	36	31	41
Ross	36	31	41
Hardin	35	30	41
Jackson	35	30	41
Morgan	35	29	41
Scioto	35	30	40
Huron	35	30	40
Guernsey	35	30	40
Paulding	35	29	41
Tuscarawas	34	29	40
Carroll	34	29	40
Meigs	34	28	39
Fayette	33	28	39
Perry	33	28	39
Ashtabula	33	28	39
Gallia	33	28	39
Highland	33	28	39
Pike	33	28	38
Brown	33	27	38
Harrison	33	27	38
Monroe	31	25	38
Coshocton	31	26	36
Noble	30	25	36
Vinton	28	22	33
Adams	27	22	33
Holmes	17	1	33

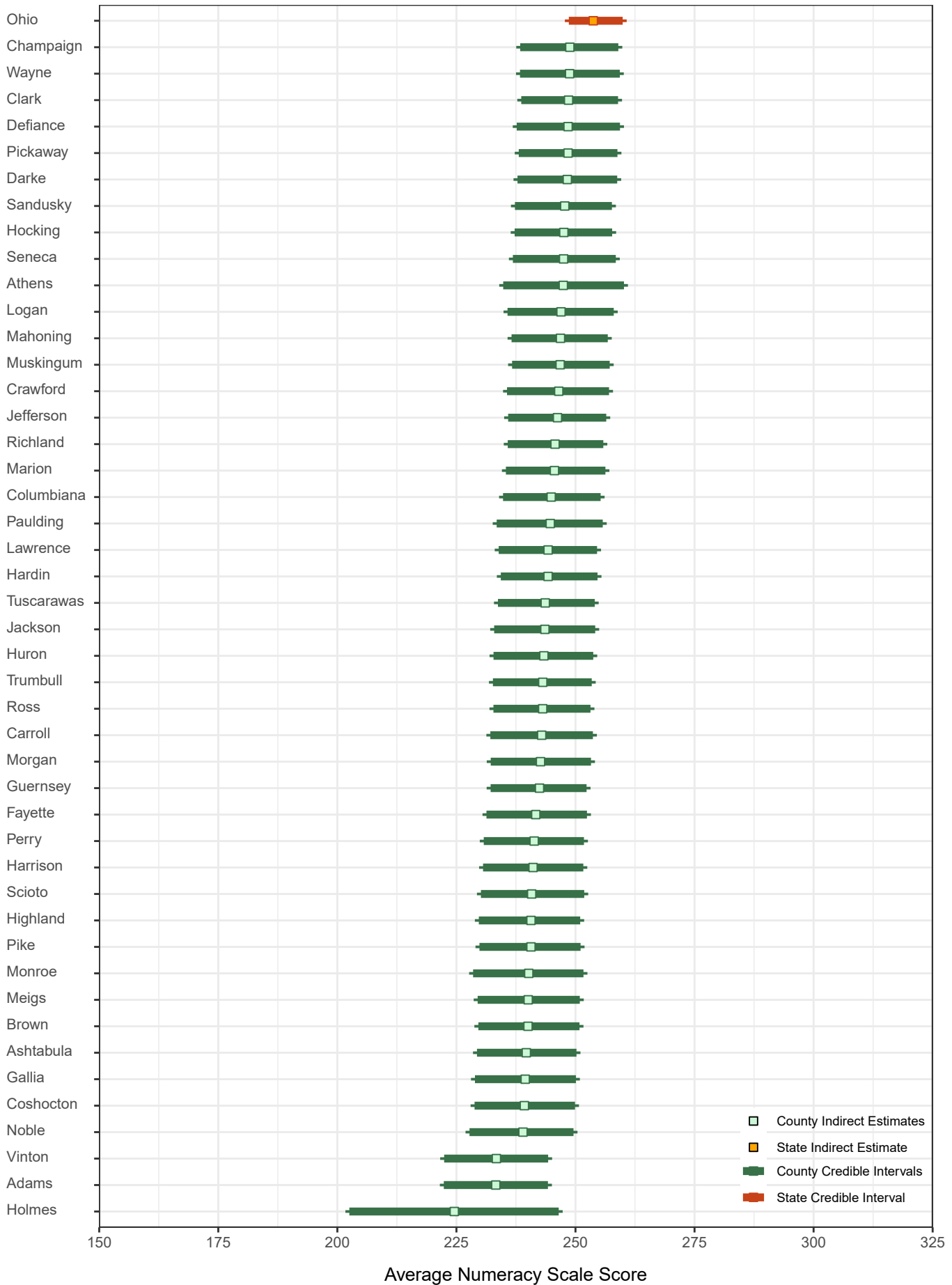
SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

# Average Numeracy Scale Scores of Counties in Ohio: 2012/2014/2017



See notes at end of chart.

# Average Numeracy Scale Scores of Counties in Ohio: 2012/2014/2017—Continued



SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

## Average Numeracy Scale Scores of Counties in Ohio: 2012/2014/2017

County	Indirect estimate	Lower bound of credible interval	Upper bound of credible interval
Ohio	254	249	260
Delaware	283	273	294
Warren	274	264	284
Geauga	270	259	281
Medina	269	259	279
Greene	269	259	279
Union	264	254	274
Wood	264	253	274
Lake	263	252	273
Clermont	262	252	272
Fairfield	261	250	271
Hancock	259	250	269
Ottawa	259	249	269
Licking	258	248	268
Summit	258	248	268
Miami	257	247	267
Butler	257	247	267
Auglaize	257	246	267
Franklin	257	247	268
Portage	256	246	267
Putnam	256	245	267
Shelby	255	245	266
Hamilton	255	245	265
Lorain	255	245	265
Henry	254	244	265
Montgomery	254	244	264
Fulton	254	244	264
Mercer	254	242	264
Stark	253	243	263
Washington	252	241	262
Knox	252	241	262
Erie	252	241	262
Morrow	251	244	259
Clinton	251	241	261
Wyandot	251	240	261
Williams	250	239	261
Ashland	250	239	260
Madison	249	239	259
Belmont	249	239	260
Van Wert	249	238	260
Cuyahoga	249	241	258
Lucas	249	239	259
Preble	249	239	259
Allen	249	239	259
Ohio	254	249	260
Champaign	249	238	259
Wayne	249	238	259
Clark	249	239	259
Defiance	248	238	259
Pickaway	248	238	259
Darke	248	238	259
Sandusky	248	237	258
Hocking	248	237	258
Seneca	248	237	258

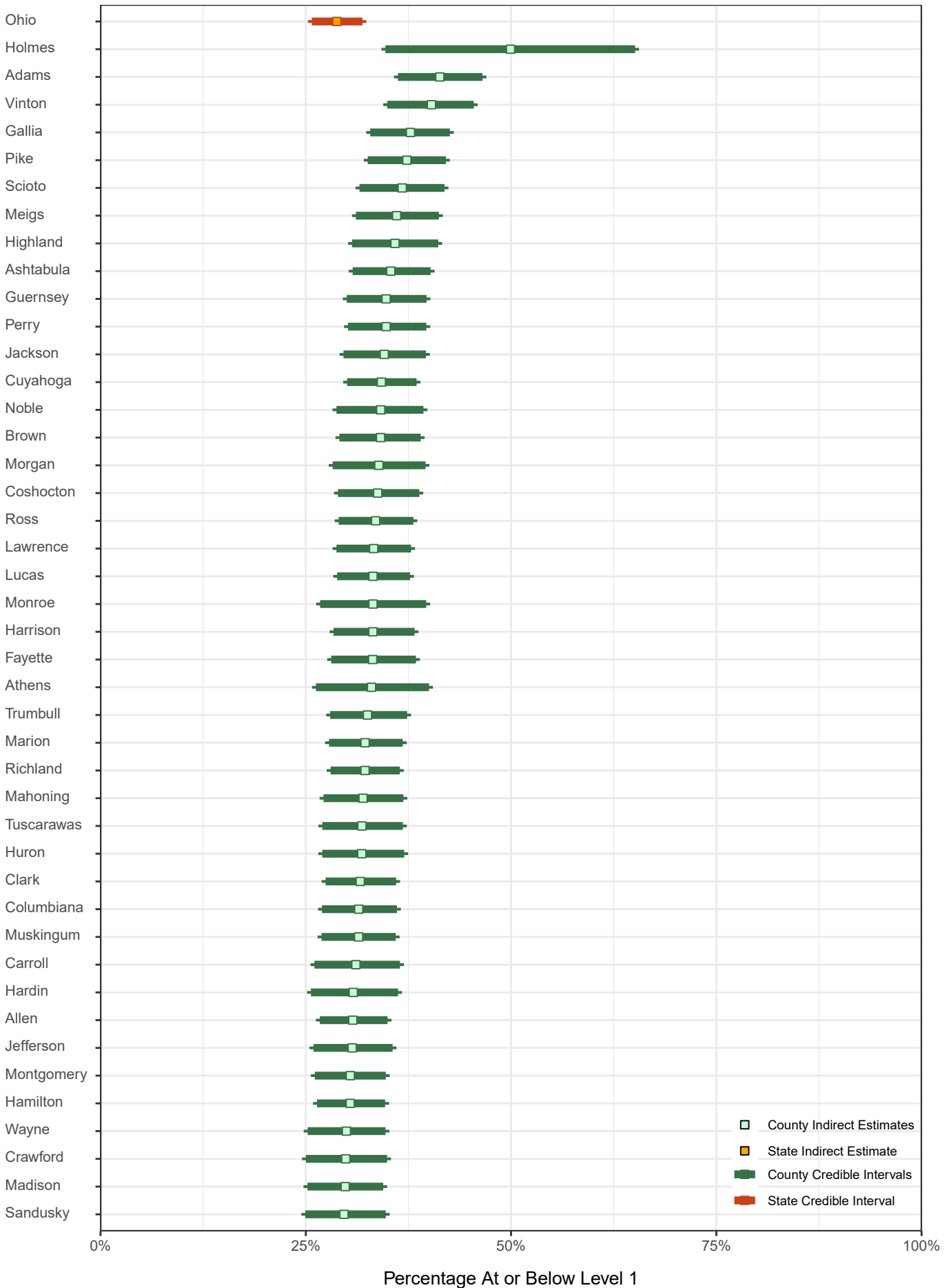
See notes at end of table.

## Average Numeracy Scale Scores of Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate	Lower bound of credible interval	Upper bound of credible interval
Athens	247	235	260
Logan	247	236	258
Mahoning	247	237	257
Muskingum	247	237	257
Crawford	246	236	257
Jefferson	246	236	256
Richland	246	236	256
Marion	246	235	256
Columbiana	245	235	255
Paulding	245	233	256
Lawrence	244	234	255
Hardin	244	234	255
Tuscarawas	244	234	254
Jackson	244	233	254
Huron	243	233	254
Trumbull	243	233	253
Ross	243	233	253
Carroll	243	232	254
Morgan	243	232	253
Guernsey	242	232	252
Fayette	242	231	252
Perry	241	231	252
Harrison	241	231	252
Scioto	241	230	252
Highland	241	230	251
Pike	241	230	251
Monroe	240	229	252
Meigs	240	229	251
Brown	240	230	251
Ashtabula	240	229	250
Gallia	239	229	250
Coshocton	239	229	250
Noble	239	228	250
Vinton	233	222	244
Adams	233	222	244
Holmes	225	203	246

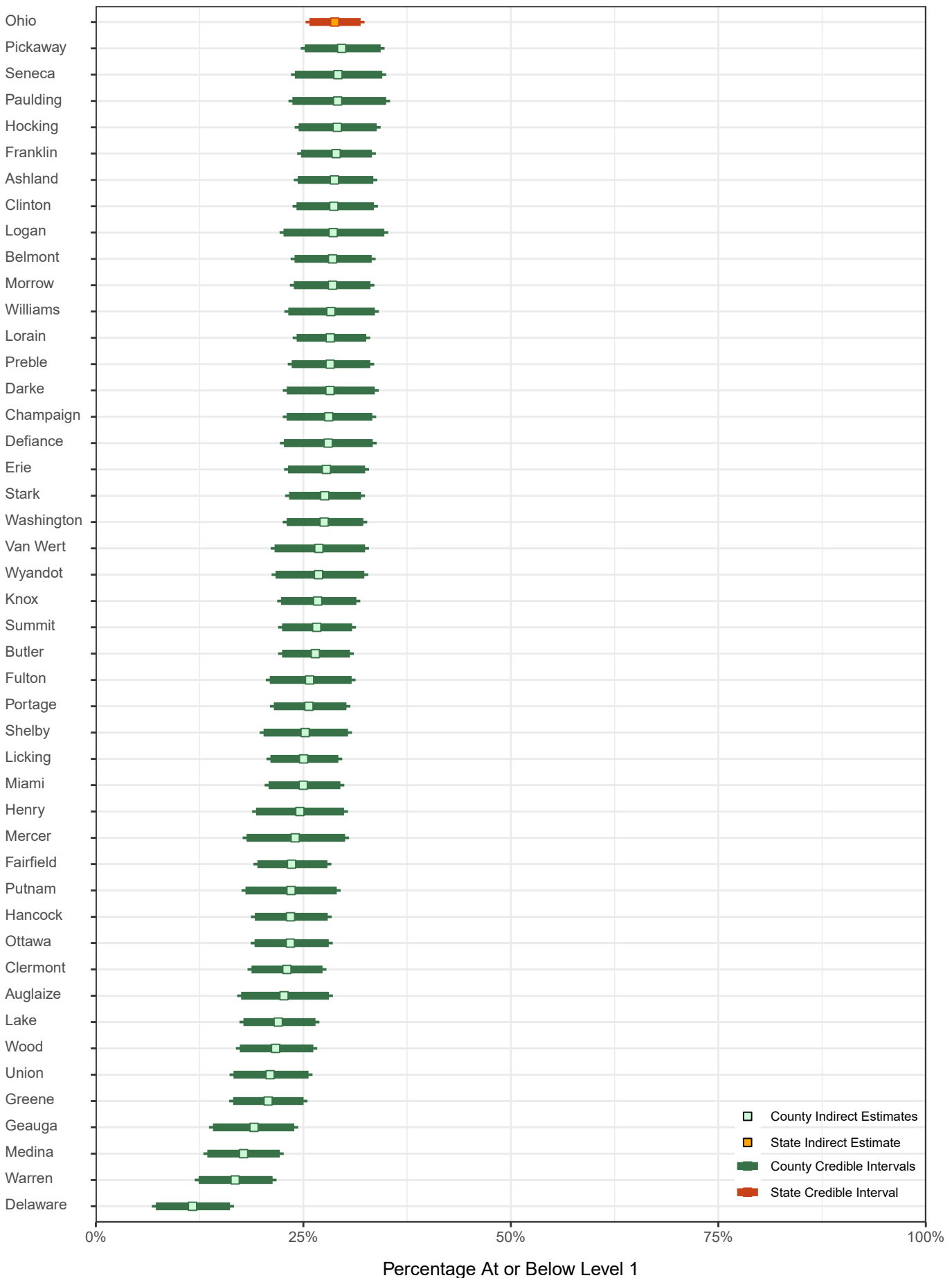
SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

# Percentage with Numeracy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017



See notes at end of chart.

Percentage with Numeracy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017—Continued



SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.



Percentage with Numeracy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Ohio	29	26	32
Holmes	50	35	65
Adams	41	36	47
Vinton	40	35	45
Gallia	38	33	43
Pike	37	33	42
Scioto	37	32	42
Meigs	36	31	41
Highland	36	31	41
Ashtabula	35	31	40
Guernsey	35	30	40
Perry	35	30	40
Jackson	35	30	40
Cuyahoga	34	30	38
Noble	34	29	39
Brown	34	29	39
Morgan	34	28	40
Coshocton	34	29	39
Ross	34	29	38
Lawrence	33	29	38
Lucas	33	29	38
Monroe	33	27	40
Harrison	33	28	38
Fayette	33	28	38
Athens	33	26	40
Trumbull	33	28	37
Marion	32	28	37
Richland	32	28	36
Mahoning	32	27	37
Tuscarawas	32	27	37
Huron	32	27	37
Clark	32	27	36
Columbiana	31	27	36
Muskingum	31	27	36
Carroll	31	26	36
Hardin	31	26	36
Allen	31	27	35
Jefferson	31	26	36
Montgomery	30	26	35
Hamilton	30	26	35
Wayne	30	25	35
Crawford	30	25	35
Madison	30	25	34
Sandusky	30	25	35
Pickaway	30	25	34
Seneca	29	24	35
Paulding	29	24	35
Hocking	29	24	34
Franklin	29	25	33
Ashland	29	24	33
Clinton	29	24	34
Logan	29	23	35
Belmont	29	24	33
Morrow	29	24	33

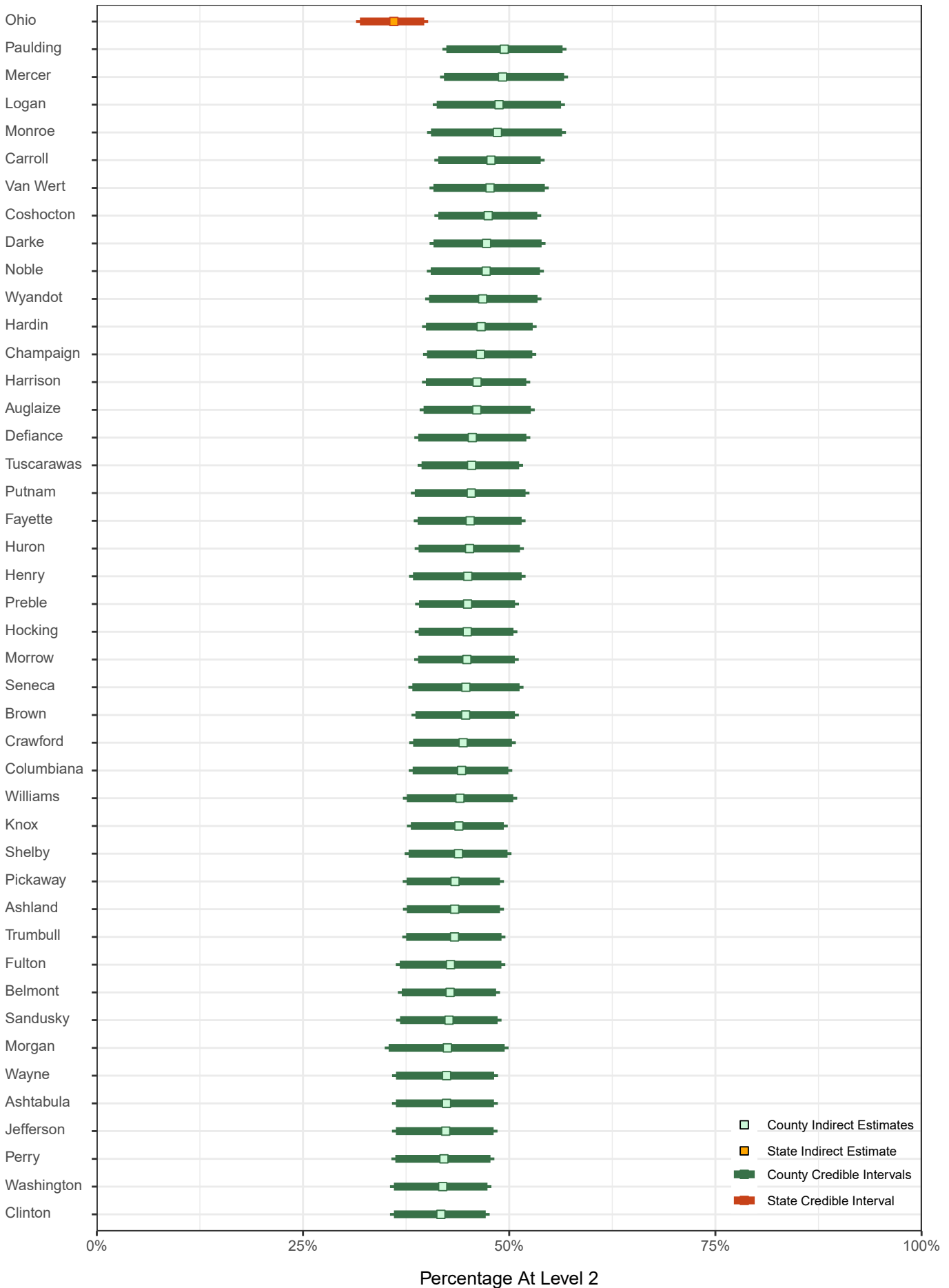
See notes at end of table.

Percentage with Numeracy Skills At or Below Level 1 in Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Williams	28	23	34
Lorain	28	24	33
Preble	28	24	33
Darke	28	23	34
Champaign	28	23	33
Defiance	28	23	33
Erie	28	23	32
Stark	28	23	32
Washington	28	23	32
Van Wert	27	22	32
Wyandot	27	22	32
Knox	27	22	31
Summit	27	22	31
Butler	26	22	31
Fulton	26	21	31
Portage	26	21	30
Shelby	25	20	30
Licking	25	21	29
Miami	25	21	29
Henry	25	19	30
Mercer	24	18	30
Fairfield	24	19	28
Putnam	24	18	29
Hancock	23	19	28
Ottawa	23	19	28
Clermont	23	19	27
Auglaize	23	18	28
Lake	22	18	26
Wood	22	17	26
Union	21	17	26
Greene	21	17	25
Geauga	19	14	24
Medina	18	13	22
Warren	17	12	21
Delaware	12	7	16

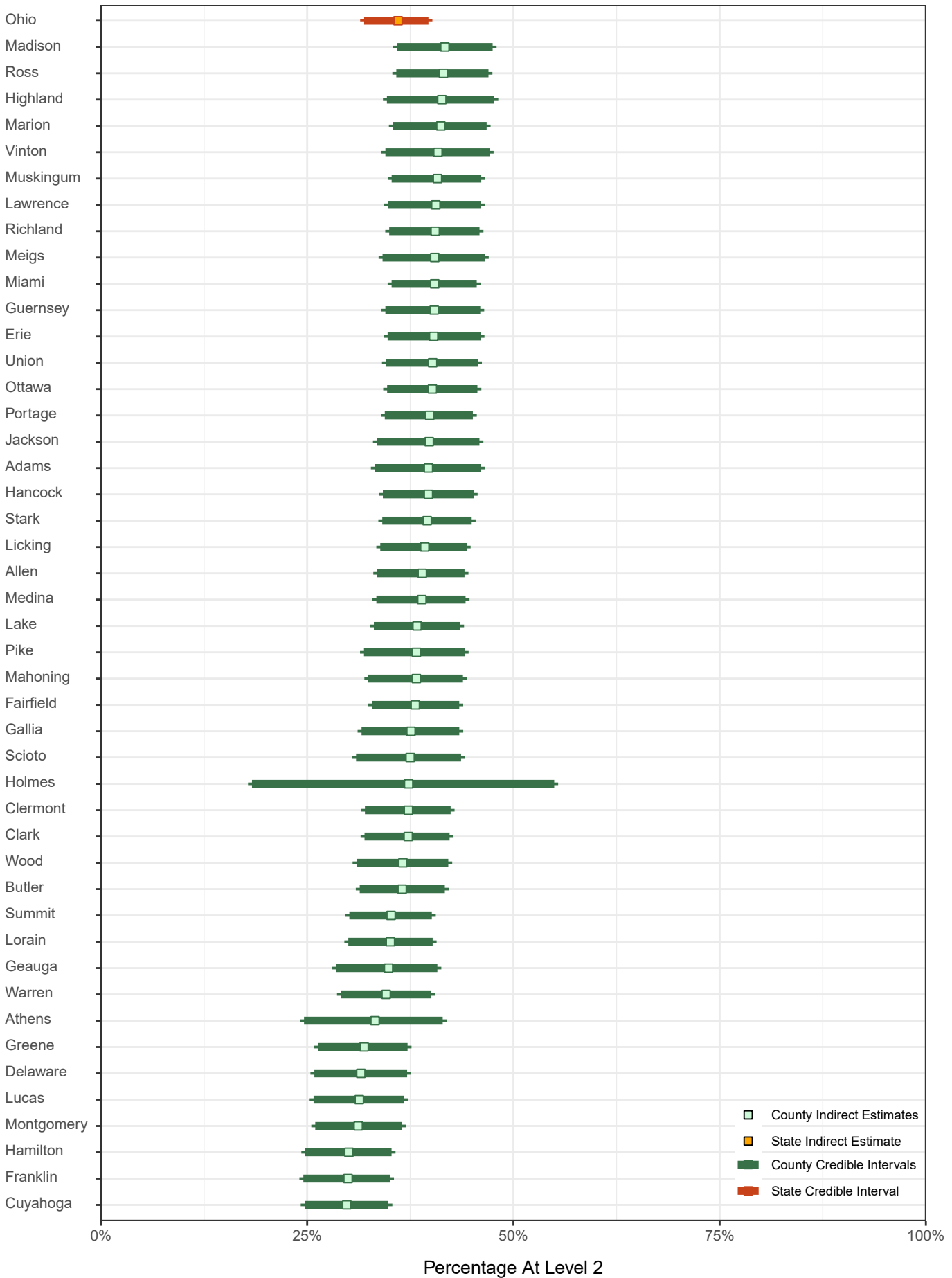
SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

# Percentage with Numeracy Skills At Level 2 in Counties in Ohio: 2012/2014/2017



See notes at end of chart.

Percentage with Numeracy Skills At Level 2 in Counties in Ohio: 2012/2014/2017—Continued



SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

Percentage with Numeracy Skills At Level 2 in Counties in Ohio: 2012/2014/2017

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Ohio	36	32	40
Paulding	49	42	56
Mercer	49	42	57
Logan	49	41	56
Monroe	49	41	56
Carroll	48	41	54
Van Wert	48	41	54
Coshocton	47	41	53
Darke	47	41	54
Noble	47	40	54
Wyandot	47	40	53
Hardin	47	40	53
Champaign	47	40	53
Harrison	46	40	52
Auglaize	46	40	53
Defiance	46	39	52
Tuscarawas	45	39	51
Putnam	45	39	52
Fayette	45	39	52
Huron	45	39	51
Henry	45	38	52
Preble	45	39	51
Hocking	45	39	51
Morrow	45	39	51
Seneca	45	38	51
Brown	45	39	51
Crawford	44	38	50
Columbiana	44	38	50
Williams	44	38	50
Knox	44	38	49
Shelby	44	38	50
Pickaway	43	38	49
Ashland	43	38	49
Trumbull	43	38	49
Fulton	43	37	49
Belmont	43	37	48
Sandusky	43	37	49
Morgan	42	35	49
Wayne	42	36	48
Ashtabula	42	36	48
Jefferson	42	36	48
Perry	42	36	48
Washington	42	36	47
Clinton	42	36	47
Madison	42	36	47
Ross	42	36	47
Highland	41	35	48
Marion	41	35	47
Vinton	41	34	47
Muskingum	41	35	46
Lawrence	41	35	46
Richland	41	35	46
Meigs	40	34	47
Miami	40	35	46

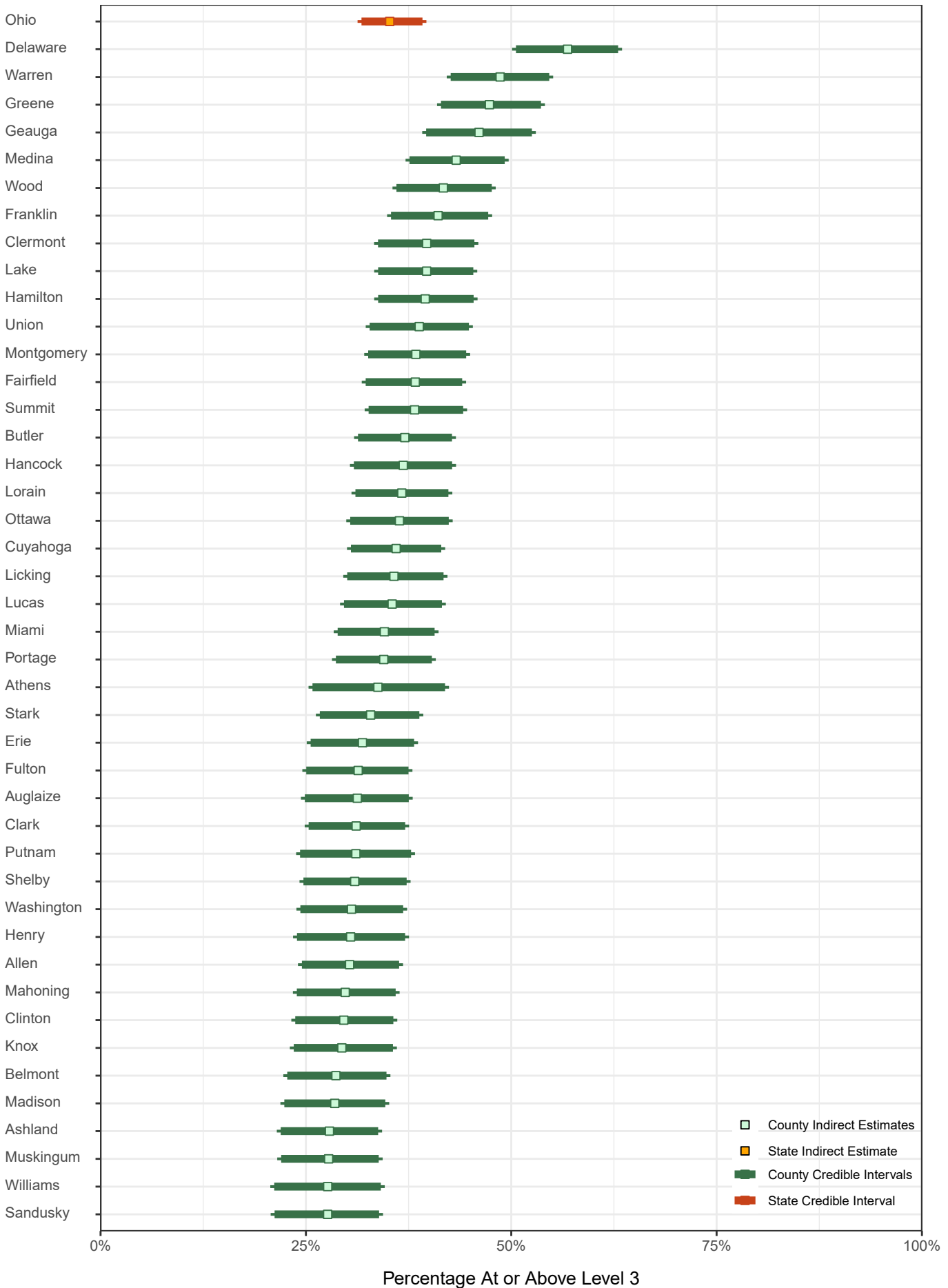
See notes at end of table.

Percentage with Numeracy Skills At Level 2 in Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Guernsey	40	34	46
Erie	40	35	46
Union	40	35	46
Ottawa	40	35	46
Portage	40	34	45
Jackson	40	33	46
Adams	40	33	46
Hancock	40	34	45
Stark	40	34	45
Licking	39	34	44
Allen	39	33	44
Medina	39	33	44
Lake	38	33	44
Pike	38	32	44
Mahoning	38	32	44
Fairfield	38	33	43
Gallia	38	32	43
Scioto	37	31	44
Holmes	37	18	55
Clermont	37	32	42
Clark	37	32	42
Wood	37	31	42
Butler	37	31	42
Summit	35	30	40
Lorain	35	30	40
Geauga	35	29	41
Warren	35	29	40
Athens	33	25	41
Greene	32	26	37
Delaware	32	26	37
Lucas	31	26	37
Montgomery	31	26	36
Hamilton	30	25	35
Franklin	30	25	35
Cuyahoga	30	25	35

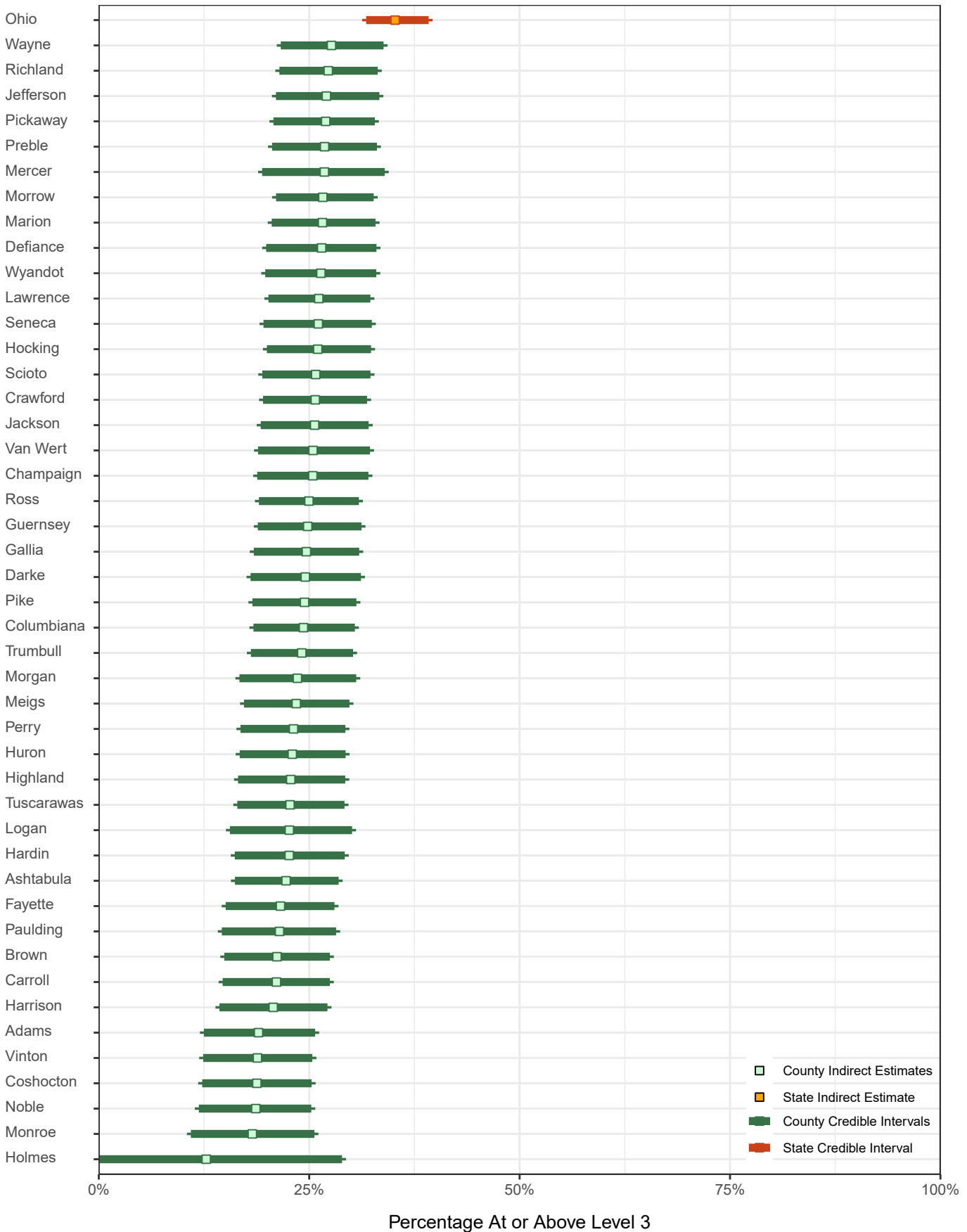
SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.

# Percentage with Numeracy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017



See notes at end of chart.

Percentage with Numeracy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017—Continued



NOTES:

The lower bound of the credible interval for Holmes County is less than 0% and set to 0%.  
 The predictions for a small number of counties become negative due to the unconstrained linear nature of the model.  
 For more information, please refer to the PIAAC State and County Estimation Methodology Report.

SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.



Percentage with Numeracy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Ohio	35	32	39
Delaware	57	51	63
Warren	49	43	55
Greene	47	41	54
Geauga	46	40	53
Medina	43	38	49
Wood	42	36	48
Franklin	41	35	47
Clermont	40	34	46
Lake	40	34	45
Hamilton	40	34	45
Union	39	33	45
Montgomery	38	33	45
Fairfield	38	32	44
Summit	38	33	44
Butler	37	31	43
Hancock	37	31	43
Lorain	37	31	42
Ottawa	36	30	42
Cuyahoga	36	30	41
Licking	36	30	42
Lucas	35	30	42
Miami	35	29	41
Portage	34	29	40
Athens	34	26	42
Stark	33	27	39
Erie	32	26	38
Fulton	31	25	37
Auglaize	31	25	38
Clark	31	25	37
Putnam	31	24	38
Shelby	31	25	37
Washington	31	24	37
Henry	30	24	37
Allen	30	25	36
Mahoning	30	24	36
Clinton	30	24	36
Knox	29	24	36
Belmont	29	23	35
Madison	29	22	35
Ashland	28	22	34
Muskingum	28	22	34
Williams	28	21	34
Sandusky	28	21	34
Wayne	28	22	34
Richland	27	21	33
Jefferson	27	21	33
Pickaway	27	21	33
Preble	27	21	33
Mercer	27	19	34
Morrow	27	21	33
Marion	27	21	33
Defiance	26	20	33
Wyandot	26	20	33

See notes at end of table.

Percentage with Numeracy Skills At or Above Level 3 in Counties in Ohio: 2012/2014/2017—Continued

County	Indirect estimate (%)	Lower bound of credible interval (%)	Upper bound of credible interval (%)
Lawrence	26	20	32
Seneca	26	20	32
Hocking	26	20	32
Scioto	26	19	32
Crawford	26	20	32
Jackson	26	19	32
Van Wert	25	19	32
Champaign	25	19	32
Ross	25	19	31
Guernsey	25	19	31
Gallia	25	18	31
Darke	25	18	31
Pike	24	18	31
Columbiana	24	18	30
Trumbull	24	18	30
Morgan	24	17	31
Meigs	23	17	30
Perry	23	17	29
Huron	23	17	29
Highland	23	17	29
Tuscarawas	23	16	29
Logan	23	16	30
Hardin	23	16	29
Ashtabula	22	16	28
Fayette	22	15	28
Paulding	21	15	28
Brown	21	15	27
Carroll	21	15	27
Harrison	21	14	27
Adams	19	12	26
Vinton	19	12	25
Coshocton	19	12	25
Noble	19	12	25
Monroe	18	11	26
Holmes	13	0	29

NOTES:

The lower bound of the credible interval for Holmes County is less than 0% and set to 0%.

The predictions for a small number of counties become negative due to the unconstrained linear nature of the model.

For more information, please refer to the PIAAC State and County Estimation Methodology Report.

SOURCE: U.S. Department of Education, National Center for Education Statistics, U.S. Program for the International Assessment of Adult Competencies (PIAAC), 2012/2014/2017.