

# ILLITERACY AMONG ADULTS IN THE US

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## ADDITIONAL RESOURCES

<https://www.nap.edu/read/13468/chapter/4#7>

<https://www.vera.org/research/why-invest-in-college-in-prisons>

## FOOTNOTES

1. <https://www.merriam-webster.com/dictionary/dysgraphia>
2. Bobby D. Rampey, Robert Finnegan, Madeline Goodman, Leyla Mohadjer, Tom Krenzke, Jacquie Hogan, Stephen Provasnik, and Holly Xie, Skills of U.S. Unemployed, Young, and Older Adults in Sharper Focus: Results From the Program for the International Assessment of Adult Competencies (PIAAC) 2012/2014 First Look, National Center for Education Statistics (March 2016): B-1, <https://nces.ed.gov/pubs2016/2016039rev.pdf>.
3. Limited English Proficiency (LEP), Frequently Asked Questions, accessed March 28, 2018, <https://www.lep.gov/faqs/faqs.html#OneQ1>.
4. Rampey et. al, Skills of U.S. Unemployed, B-3.
5. United Nations Educational, Scientific, and Cultural Organization, Education for People and Planet: Creating Sustainable Futures for All (2016): 285, <http://unesdoc.unesco.org/images/0024/002457/245752e.pdf>.
6. World Literacy Foundation, The Economic and Social Cost of Illiteracy, 5—10.
7. Ibid.
8. National Research Council of the National Academies, Improving Adult Literacy Instruction: Developing Reading and Writing (Washington, DC: National Academics Press, 2012), 3, doi: 10.12336/13468. \*This report does not specify the legal status of US adults surveyed
9. Ibid.
10. World Literacy Foundation, Economic and Social Cost of Illiteracy, 5-10.
11. Ibid.
12. "Mom shares her secret after 40 years: Effects of Illiteracy," YouTube video, 13:53, posted by "ProLiteracy," June 24, 2016, [https://www.youtube.com/watch?v=ZtDtP8K\\_BIA](https://www.youtube.com/watch?v=ZtDtP8K_BIA).
13. "Consequences of Illiteracy | Literacy Foundation," Fondation pour l'alphabetisation, accessed March 29, 2017, <https://www.fondationalphabetisation.org/en/causes-of-illiteracy/consequences-of-illiteracy/>.
14. Barbara Culatta (Professor of Communication Disorders at Brigham Young University), interview by Alyssa Clark, June 16, 2017.
15. Timothy Shanahan and Christopher J. Lonigan, "The Role of Early Oral Language in Literacy Development," Language Magazine, accessed June 2017, <https://www.languagemagazine.com/5100-2/>.
16. <https://nces.ed.gov/surveys/piaac/results/makeselections.aspx>.
17. <https://nces.ed.gov/surveys/piaac/results/makeselections.aspx>.

18. National Center for Education Statistics, Highlights from the U.S. PIAAC Survey of Incarcerated Adults: Their Skills, Work Experience, Education, and Training (2014): 6, <https://nces.ed.gov/pubs2016/2016040.pdf>.
19. "Literacy Statistics," Begin to Read, accessed August 9, 2017, <http://www.begintoread.com/research/literacystatistics.html>.
20. <https://nces.ed.gov/naal/estimates/StateEstimates.aspx>.
21. <https://www.census.gov/censusexplorer/censusexplorer.html>.
22. Drew DeSilver, "U.S. Students' Academic Achievement Still Lags That of Their Peers in Many Other Countries," Pew Research Center, February 15, 2017, <http://www.pewresearch.org/fact-tank/2017/02/15/u-s-students-internationally-math-science/>. The terminology "developed countries" was determined by the Pew Research Center.
23. Janie Boschma and Ronald Brownstein, "The Concentration of Poverty in American Schools," The Atlantic, February 29, 2016, <https://www.theatlantic.com/education/archive/2016/02/concentration-poverty-american-schools/471414/>.
24. Ibid.
25. NCES. "The Status of Rural Education." The Condition of Education. May 2013. [https://nces.ed.gov/programs/coe/indicator\\_tla.asp](https://nces.ed.gov/programs/coe/indicator_tla.asp).
26. Gary Orfield, Schools More Separate: Consequences of a Decade of Resegregation, Harvard Civil Rights Project (July 2001), <https://eric.ed.gov/?id=ED459217>.
27. Julia Ryan, "American Schools vs. the World: Expensive, Unequal, Bad at Math," The Atlantic, December 3, 2013, <https://www.theatlantic.com/education/archive/2013/12/american-schools-vs-the-world-expensive-unequal-bad-at-math/281983/>.
28. Bruce J. Biddle and David C. Berliner, "A Research Synthesis / Unequal School Funding in the United States," Educational Leadership 59, no. 8 (May 2002): 48-59, <http://www.ascd.org/publications/educational-leadership/may02/vol59/num08/Unequal-School-Funding-in-the-United-States.aspx>.
29. Mike Honda, "Why American Students Lag Behind," CNN, December 17, 2010, <http://www.cnn.com/2010/OPINION/12/17/honda.education/index.html>.
30. Boschma and Brownstein, "The Concentration of Poverty."
31. Ibid.
32. Joe Heim, "America Has a Teacher Shortage, and a New Study Says It's Getting Worse," The Washington Post, September 14, 2016, [https://www.washingtonpost.com/local/education/america-has-a-teacher-shortage-and-a-new-study-says-its-getting-worse/2016/09/14/d5de1cee-79e8-11e6-beac-57a4a412e93a\\_story.html?utm\\_term=.88fd6ebb8bd9](https://www.washingtonpost.com/local/education/america-has-a-teacher-shortage-and-a-new-study-says-its-getting-worse/2016/09/14/d5de1cee-79e8-11e6-beac-57a4a412e93a_story.html?utm_term=.88fd6ebb8bd9).
33. Stanford Center for Education Policy Analysis, "Racial and Ethnic Achievement Gaps," accessed August 30, 2017, <http://cepa.stanford.edu/educational-opportunity-monitoring-project/achievement-gaps/race/#sixth>.
34. Eric A. Hanushek, John F. Kain, and Steven G. Rivkin, "New Evidence about Brown v. Board of Education: The Complex Effects of School Racial Composition on Achievement," Journal of Labor Economics 27, no. 3 (2009) 349—383, <https://doi.org/10.1086/600386>.
35. Ibid.
36. Ibid.
37. Alex McBride, "Brown v. Board of Education (1954)," KUED, last modified December 2006, [http://www.pbs.org/wnet/supremecourt/rights/landmark\\_brown.html](http://www.pbs.org/wnet/supremecourt/rights/landmark_brown.html).

38. Elisa Crouch and Walker Moskop, "Poverty and academic struggle go hand in hand," *St. Louis Post-Dispatch*, May 17, 2014, [http://www.stltoday.com/news/local/education/poverty-and-academic-struggle-go-hand-in-hand/article\\_944bf0f6-c13f-5bbc-9112-9ab9ae205607.html](http://www.stltoday.com/news/local/education/poverty-and-academic-struggle-go-hand-in-hand/article_944bf0f6-c13f-5bbc-9112-9ab9ae205607.html).
39. "Literacy Statistics," *Begin to Read*, accessed June 14, 2016, <http://www.begin Toread.com/research/literacystatistics.html>.
40. Carol H. Rasco, "America's Literacy Crisis: An Overlooked Epidemic," *Media Planet*, accessed June 8, 2017, <http://www.educationandcareernews.com/learning-tools/americas-literacy-crisis-an-overlooked-epidemic>.
41. Barbara Culatta, interviewed by Alyssa Clark, Professor of Communication Disorders at Brigham Young University, June 16, 2017, Brigham Young University.
42. Betty Hart and Todd R. Risley, "The Early Catastrophe: The 30 Million Word Gap by Age 3," *American Federation of Teachers* 27, no. 1 (Spring 2003): 4—9, <http://www.aft.org/sites/default/files/periodicals/TheEarlyCatastrophe.pdf>.
43. Jennifer Buckingham, Robyn Beaman, and Kevin Wheldall, "Why Poor Children Are More Likely to Become Poor Readers: The Early Years," *Educational Review* 66, no. 4 (May 14, 2013): 428—446, <http://dx.doi.org/10.1080/00131911.2013.795129>.
44. *Ibid.*
45. Biddle and Berliner, "A Research Synthesis."
46. Gary W. Evans, "The Environment of Childhood Poverty," *American Psychologist* 59, no. 2 (February/March 2004): 77—92, doi: 10.1037/0003-066X.59.2.77.
47. *Ibid.*
48. *Ibid.*
49. Paula Fomby and Andrew J. Cherlin, "Family Instability and Child Well Being," *American Sociological Review*, April 2007, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3171291/>.
50. <https://projects.cberdata.org/123/how-vulnerable-are-american-communities-to-automation-trade-urbanization>
51. <https://nces.ed.gov/surveys/piaac/results/makeselections.aspx>.
52. Robert Roy Britt, "14 Percent of U.S. Adults Can't Read," *Live Science*, January 10, 2009, <http://www.livescience.com/3211-14-percent-adults-read.html>.
53. Jie Zong and Jeanne Batalova, "The Limited English Proficient Population in the United States," *Migration Policy Institute*, July 8, 2015, <http://www.migrationpolicy.org/article/limited-english-proficient-population-united-states>.
54. Duke Helfand, "U.S. Literacy Rates Among West's Highest, Study Finds," *Los Angeles Times*, September 9, 2000, <http://articles.latimes.com/2000/sep/09/news/mn-18121>.
55. Zong and Batalova, "Limited English Proficient Population."
56. *Ibid.*
57. Carmen DeNavas-Walt and Bernadette D. Proctor, "Income and Poverty in the United States: 2013," U.S. Census Bureau, September 2014, (\*PAGE 51) <https://www.census.gov/content/dam/Census/library/publications/2014/demo/p60-249.pdf>.
58. Zong and Batalova, "Limited English Proficient Population."
59. *Ibid.*
60. Alliance for Excellent Education, *Double the Work* (2007), [https://www.carnegie.org/media/filer\\_public/bd/d8/bdd80ac7-fb48-4b97-b082-df8c49320acb/ccny\\_report\\_2007\\_double.pdf](https://www.carnegie.org/media/filer_public/bd/d8/bdd80ac7-fb48-4b97-b082-df8c49320acb/ccny_report_2007_double.pdf). PAGE 10
61. <http://www.ncl.org/understanding-learning-and-attention-issues>.

62. Candace Cortiella and Sheldon H. Horowitz, "The State of Learning Disabilities: Facts, Trends and Emerging Issues," New York: National Center for Learning Disabilities, 2014, <https://www.nclld.org/wp-content/uploads/2014/11/2014-State-of-LD.pdf>. PAGES 3-5
63. Ann Logsdon, "Help for Reading Comprehension Learning Disabilities," Verywell, last modified April 13, 2017, <https://www.verywell.com/learning-disability-in-reading-comprehension-2162449>.
64. Cortiella and Horowitz, "State of Learning Disabilities," 25.
65. <http://www.nclld.org/understanding-learning-and-attention-issues>.
66. Cortiella and Horowitz, "State of Learning Disabilities," 25.
67. "New to LD," Learning Disabilities Association of America, accessed June 22, 2017, <https://ldaamerica.org/support/new-to-ld/>.
68. <http://www.nclld.org/understanding-learning-and-attention-issues>.
69. Ibid.
70. Ibid.
71. Ibid.
72. Jenna Flannigan, "How Prison Literacy Programs Can Fix America's Mass Incarceration Problem," GOOD and Pearson, December 18, 2015, <https://www.good.is/articles/prison-literacy-programs-help-break-incarceration-cycle>.
73. National Center for Education Statistics, Highlights from the U.S. PIAAC Survey of Incarcerated Adults: Their Skills, Work Experience, Education, and Training (2014), <https://nces.ed.gov/pubs2016/2016040.pdf>. PAGE 6
74. "Literacy Statistics," Begin to Read, accessed August 9, 2017, <http://www.begintoread.com/research/literacystatistics.html>.
75. National Center for Education Statistics, Literacy Behind Bars (2007), <https://nces.ed.gov/pubs2007/2007473.pdf>.
76. Christy A. Visher, Laura Winterfield, and Mark B. Coggeshall, "Ex-offender employment programs and recidivism: A meta-analysis," *Journal of Experimental Criminology* 1, no. 3 (2005): 295-316, <https://link.springer.com/article/10.1007/s11292-005-8127-x>.
77. Stephen J. Tripodi, Johnny S. Kim, and Kimberly Bender, "Is Employment Associated With Reduced Recidivism?" *Sage Journals* 54, no. 5 (2010): 706-720, <http://journals.sagepub.com/doi/10.1177/0306624X09342980>.
78. "Literacy Statistics," Begin to Read, accessed August 9, 2017, <http://www.begintoread.com/research/literacystatistics.html>.
79. Alia Wong, "How Parental Incarceration Affects a Child's Education," *The Atlantic*, November 11, 2015, <https://www.theatlantic.com/education/archive/2015/11/how-parental-incarceration-affect-s-a-childs-education/414720/>.
80. Melinda D. Anderson, "How Mass Incarceration Pushes Black Children Further Behind in School," *The Atlantic*, January 16, 2017, <https://www.theatlantic.com/education/archive/2017/01/how-mass-incarceration-pushes-black-children-further-behind-in-school/513161/>
81. Child Trends, *Parents Behind Bars: What Happens to Their Children?* (2015), <https://www.childtrends.org/wp-content/uploads/2015/10/2015-42ParentsBehindBars.pdf>
82. Alia Wong, "How Parental Incarceration Affects a Child's Education," *The Atlantic*, November 11, 2015, <https://www.theatlantic.com/education/archive/2015/11/how-parental-incarceration-affect-s-a-childs-education/414720/>.
83. <http://www.nclld.org/understanding-learning-and-attention-issues>.

84. Olga Khazan, "Half of All Kids are Traumatized," *The Atlantic*, December 11, 2014, <https://www.theatlantic.com/health/archive/2014/12/half-of-all-kids-experience-traumatic-events/383630/>.
85. <http://www.ncl.org/understanding-learning-and-attention-issues>.
86. Alia Wong, "What Are Massachusetts Public Schools Doing Right?," *The Atlantic*, May 23, 2016, <https://www.theatlantic.com/education/archive/2016/05/what-are-massachusetts-public-schools-doing-right/483935/>.
87. <https://nces.ed.gov/naal/estimates/StateEstimates.aspx>.
88. Alia Wong, "What Are Massachusetts Public Schools Doing Right?," *The Atlantic*, May 23, 2016, <https://www.theatlantic.com/education/archive/2016/05/what-are-massachusetts-public-schools-doing-right/483935/>.
89. Reading is Fundamental, *Reading is Fundamental 2016 Annual Report (2016)*, [http://www.rif.org/media/RIF\\_Annual\\_Report\\_2016\\_Low\\_Res\\_Final\\_v2.pdf](http://www.rif.org/media/RIF_Annual_Report_2016_Low_Res_Final_v2.pdf).
90. Barbara Culatta, interviewed by Alyssa Clark, Professor of Communication Disorders at Brigham Young University, June 16, 2017, Brigham Young University.
91. What We Do, ProLiteracy, accessed June 23, 2017, <https://www.proliteracy.org/What-We-Do/Overview>.
92. Workforce Curriculum for Immigrants with Limited English, ProLiteracy, accessed June 23, 2017, <https://www.proliteracy.org/What-We-Do/Programs-Projects/Workforce-Curriculum-for-Immigrants-with-Limited-English>.
93. Countries, Alfalit, accessed June 23, 2017, <https://english.alfalit.org/country/>.
94. National Literacy Directory, accessed June 22, 2017, <https://www.nationalliteracydirectory.org/>.
95. Eva Witesman and Andrew Heiss, "Nonprofit Collaboration and the Resurrection of Market Failure: How a Resource Sharing Environment Can Suppress Social Objectives," *Voluntas: International Journal of Voluntary and Nonprofit Organizations* (2016), DOI: 10.1007/s11266-016-9684-5.
96. Results, ProLiteracy, accessed June 23, 2017, <https://proliteracy.org/What-We-Do/Results>.
97. ProLiteracy, *Annual Statistical Report (2015-2016)*, accessed June 23, 2017, [https://proliteracy.org/Portals/0/AMR\\_2017\\_FINAL.pdf?ver=2017-06-01-161750-887](https://proliteracy.org/Portals/0/AMR_2017_FINAL.pdf?ver=2017-06-01-161750-887).
98. News and Press Releases: Costa Farms Graduation, Alfalit, July 15, 2015, <https://english.alfalit.org/press-release-costa-farms-graduation/>.
99. Countries, Alfalit, accessed June 23, 2017, <https://english.alfalit.org/country/>.
100. National Literacy Directory, accessed June 22, 2017, <https://www.nationalliteracydirectory.org/>.
101. Eva Witesman and Andrew Heiss, "Nonprofit Collaboration and the Resurrection of Market Failure: How a Resource Sharing Environment Can Suppress Social Objectives," *Voluntas: International Journal of Voluntary and Nonprofit Organizations* (2016), DOI: 10.1007/s11266-016-9684-5.
102. RAND Corporation, *How Effective Is Correctional Education and Where Do We Go From Here?* (2014), [https://www.rand.org/content/dam/rand/pubs/research\\_reports/RR500/RR564/RAND\\_RR564.pdf](https://www.rand.org/content/dam/rand/pubs/research_reports/RR500/RR564/RAND_RR564.pdf) PAGE xiv
103. Vera Institute of Justice, *Expanding Access to Postsecondary Education in Prison: Fact Sheet (2017)*,

- education-in-prison-fact-sheet-for-correction-leaders/legacy\_downloads/postsecondary-education-in-prisonfactsheet-for-corrections-leaders.pdf.
104. RAND Corporation, *How Effective Is Correctional Education and Where Do We Go From Here?* (2014), [https://www.rand.org/content/dam/rand/pubs/research\\_reports/RR500/RR564/RAND\\_RR564.pdf](https://www.rand.org/content/dam/rand/pubs/research_reports/RR500/RR564/RAND_RR564.pdf) PAGE xiv
  105. Ibid, iii.
  106. Ibid, xxi.
  107. Jenna Flannigan, "How Prison Literacy Programs Can Fix America's Mass Incarceration Problem," *GOOD and Pearson*, December 18, 2015, <https://www.good.is/articles/prison-literacy-programs-help-break-incarceration-cycle>.
  108. "Global Literacy," Benetech, accessed August 10, 2017, <https://www.benetech.org/our-programs/literacy/>.
  109. "Andrew Kay," Skoll, accessed August 10, 2017, <http://skoll.org/contributor/andrew-kay/>.
  110. Karen E. Forgrave, "Assistive Technology: Empowering Students with Learning Disabilities," *The Clearing House: A Journal of Educational Strategies, Issues and Ideas* 75, no. 3 (2002): 122-126, <http://dx.doi.org/10.1080/00098650209599250>, <http://www.tandfonline.com/doi/pdf/10.1080/00098650209599250?needAccess=true>.
  111. Charles A. MacArthur, "Using Technology to Enhance the Writing Processes of Students with Learning Disabilities," *Sage Journals* 29, no. 4 (2016): 344-354, <http://journals.sagepub.com/doi/pdf/10.1177/002221949602900403>.
  112. Matthew L. Love, Tracy G. Spies, and Joseph J. Morgan, "Using E-Books to Acquire Foundational Academic Vocabulary," *Intervention in School and Clinic*, March 27, 2017, doi: 10.1177/1053451217693368, <http://journals.sagepub.com/doi/pdf/10.1177/1053451217693368>.
  113. Alan M. Lesgold and Melissa Welch-Ross, *Improving Adult Literacy Instruction: Options for Practice and Research* (Washington DC: National Academies Press, 2012), 399 <https://www.nap.edu/read/13242/chapter/14#399>.
  114. Ibid.
  115. Ibid.
  116. Juanita Giles, "E-books are not the answer to a literacy crisis," *The Washington Post*, March 25, 2016, [https://www.washingtonpost.com/opinions/e-books-are-not-the-answer-to-a-literacy-crisis/2016/03/25/3d093152-f112-11e5-a61f-e9c95c06edca\\_story.html?utm\\_term=.878b2bcbec18](https://www.washingtonpost.com/opinions/e-books-are-not-the-answer-to-a-literacy-crisis/2016/03/25/3d093152-f112-11e5-a61f-e9c95c06edca_story.html?utm_term=.878b2bcbec18).
  117. U.S. Citizenship and Immigration Services, "Education and Child Care," accessed July 13, 2017, <https://www.uscis.gov/tools/settling-us/education-and-child-care>.
  118. Barbara Culatta, interviewed by Alyssa Clark, Professor of Communication Disorders at Brigham Young University, June 16, 2017, Brigham Young University.
  119. Sarah Katherine K. Moore, Molly Fee, Jongyeon Ee, Terrence G. Wiley, and M. Beatriz Arias, "Exploring Bilingualism, Literacy, Employability and Income Levels among Latinos in the United States."
  120. <http://www.immigrantinfo.org/borders/esl.pdf>.
  121. Susan L. Schalge and Kay Sogo, "'Then I Stopped Coming to School': Understanding Absenteeism in an Adult English as a Second Language Program," *Adult Basic Education and Literacy Journal*, Fall 2008, [http://www.nelrc.org/persist/pdfs/Schalge\\_0708.pdf](http://www.nelrc.org/persist/pdfs/Schalge_0708.pdf). PAGE 156-159
  122. National Research Council, *Improving Adult Literacy Instruction: Developing Reading and Writing* (Washington, DC: The National Academics Press, 2012), 9, doi: 10.12336/13468, <https://www.nap.edu/read/13468/chapter/5>.

123. National Research Council, *Improving Adult Literacy Instruction: Developing Reading and Writing* (Washington, DC: The National Academics Press, 2012), 7, doi: 10.12336/13468, <https://www.nap.edu/read/13468/chapter/4#7>.
124. Brian Jacob, "When Evidence is Not Enough: Findings from a Randomized Evaluation of Evidence-Based Literacy Instruction (EBLI)," NBER Working Paper No. 21643, October 2015, [https://www.povertyactionlab.org/sites/default/files/publications/3881\\_EBLI\\_NBER\\_Oct2015.pdf](https://www.povertyactionlab.org/sites/default/files/publications/3881_EBLI_NBER_Oct2015.pdf). PAGES 23-24
125. Ibid.
126. Barbara Culatta, interviewed by Alyssa Clark, Professor of Communication Disorders at Brigham Young University, June 16, 2017, Brigham Young University.
127. Daphne Greenberg, Justin Wise, Robin Morris, Laura Fredrick, Alice O. Nanda, and Hye-K. Pae, "A randomized control study of instructional approaches for struggling adult readers," *PMC 4*, no. 2, (2011) DOI: 10.1080/19345747.2011.555288.
128. Judith A. Alamprese, Charles A. MacArthur, Cristofer Price, and Deborah Knight, "Effects of a Structured Decoding Curriculum on Adult Literacy Learners' Reading Development," *PMC 4*, no. 2, (2011), 154-172, DOI: 10.1080/19345747.2011.555294.
129. John Comings and Lisa Soricone, "Adult Literacy Research: Opportunities and Challenges," National Center for the Study of Adult Learning and Literacy Harvard Graduate School of Education (2007), <http://files.eric.ed.gov/fulltext/ED495439.pdf>. PAGES 24-25
130. Ibid.
131. Brian Jacob, "When Evidence is Not Enough: Findings from a Randomized Evaluation of Evidence-Based Literacy Instruction (EBLI)," NBER Working Paper No. 21643, October 2015, [https://www.povertyactionlab.org/sites/default/files/publications/3881\\_EBLI\\_NBER\\_Oct2015.pdf](https://www.povertyactionlab.org/sites/default/files/publications/3881_EBLI_NBER_Oct2015.pdf). PAGES 23-24.
132. John Comings and Lisa Soricone, "Adult Literacy Research: Opportunities and Challenges," National Center for the Study of Adult Learning and Literacy Harvard Graduate School of Education (2007), <http://files.eric.ed.gov/fulltext/ED495439.pdf>. PAGE 18