

The S.2611 Projections: Highly Skilled Computing and Engineering Workers

September 26, 2006

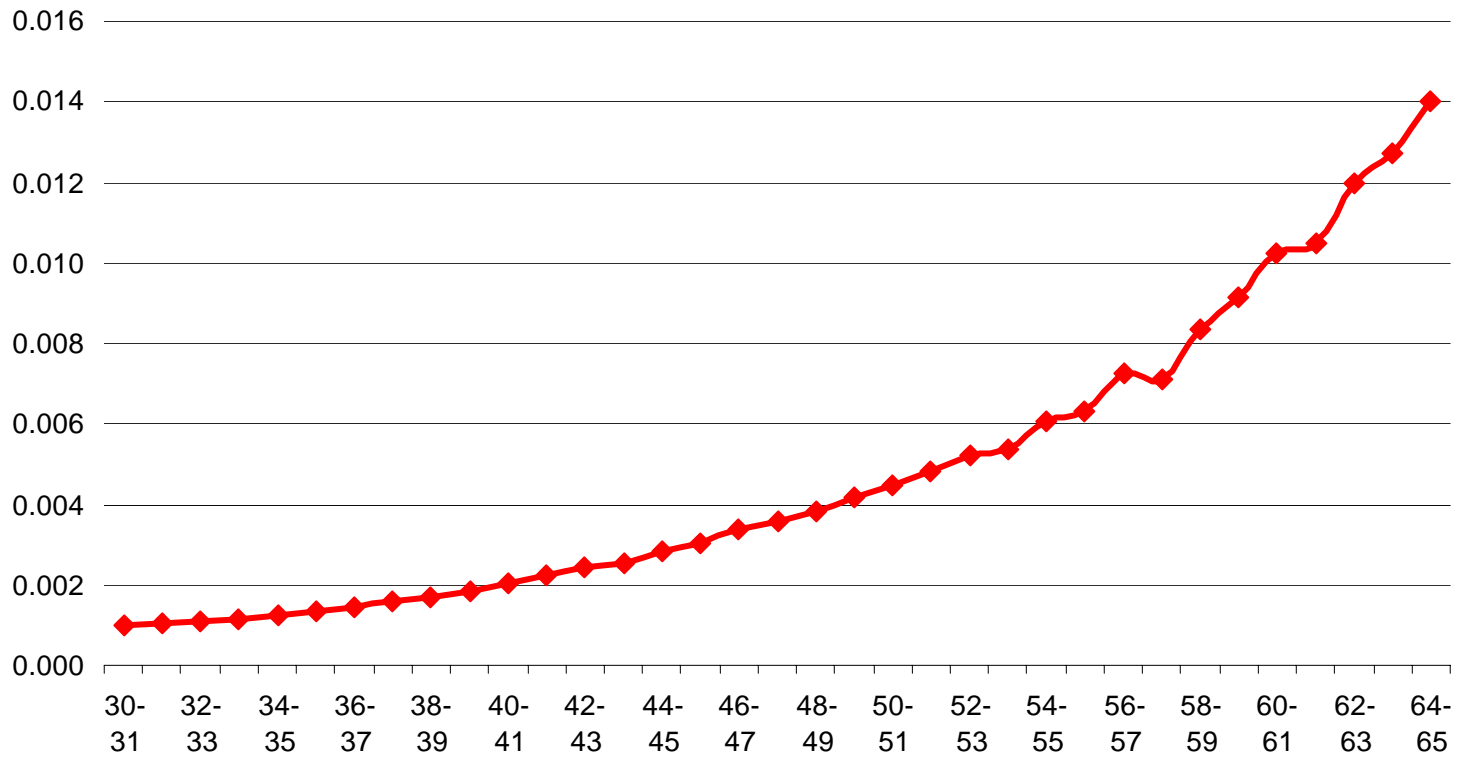
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Presentation to a workshop on "Congress & Tomorrow's Foreign-Born Population: Evaluating Immigration Projections," Institute for the Study of International Migration, Washington, D.C.

OCCUPATIONAL COMPOSITION

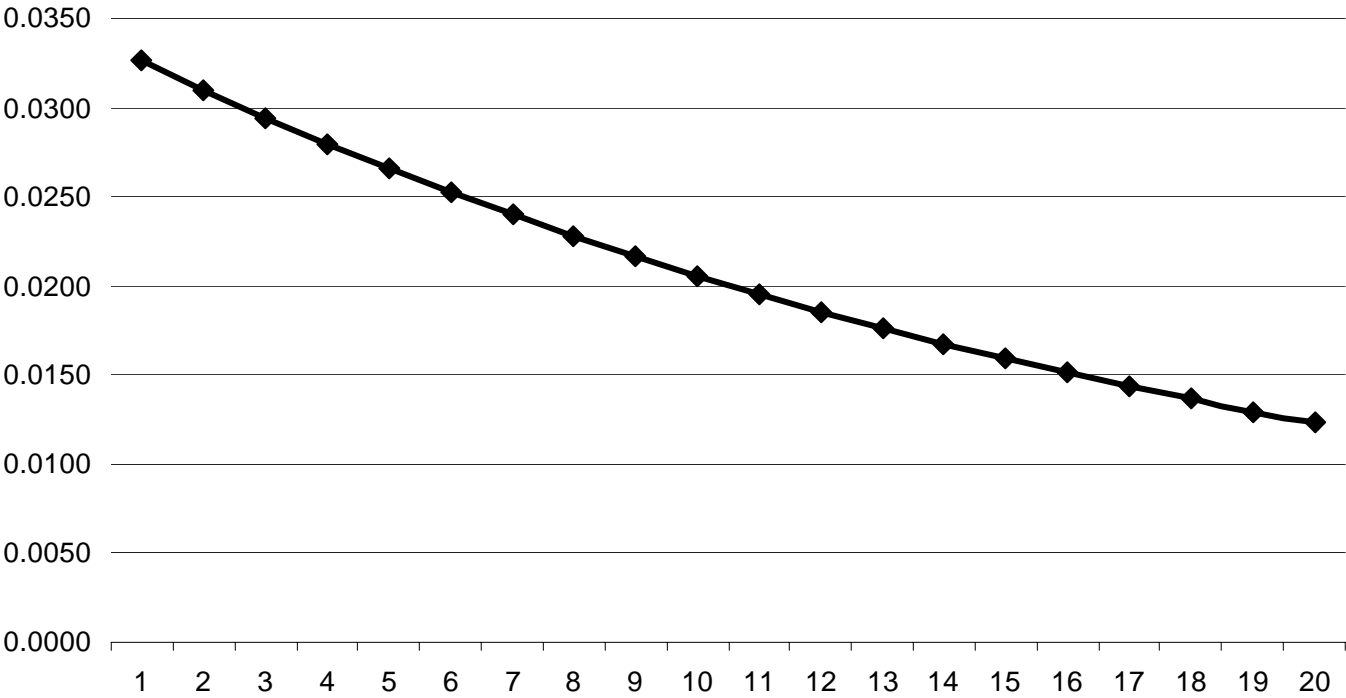
	Computer and math science	Engineers	Life & Physical Science	STEM core	Non-STEM
BLS, 2004	3,152,801	1,448,871	482,140	5,083,812	140,528,520
BLS, 2014	4,119,844	1,643,500	560,803	6,324,147	158,215,754
Constant r	1.03	1.01	1.02	1.02	1.01
BLS, 2004, of STEM	62%	28%	9%	100%	--
BLS, 2014, of STEM	65%	26%	9%	100%	--
Constant r	1.00	0.99	0.99	1.00	--
Census00	1,155,700	1,950,373	1,075,392	4,181,465	--
Native	843,428	1,604,411	449,486	2,897,325	--
FornBorn	312,272	345,962	625,906	1,284,140	--
1st yr arr	25,102	14,756	15,179	55,037	--
1st yr, of cat.	100%	100%	100%	100%	--

Prob. Dying ages x to x+1



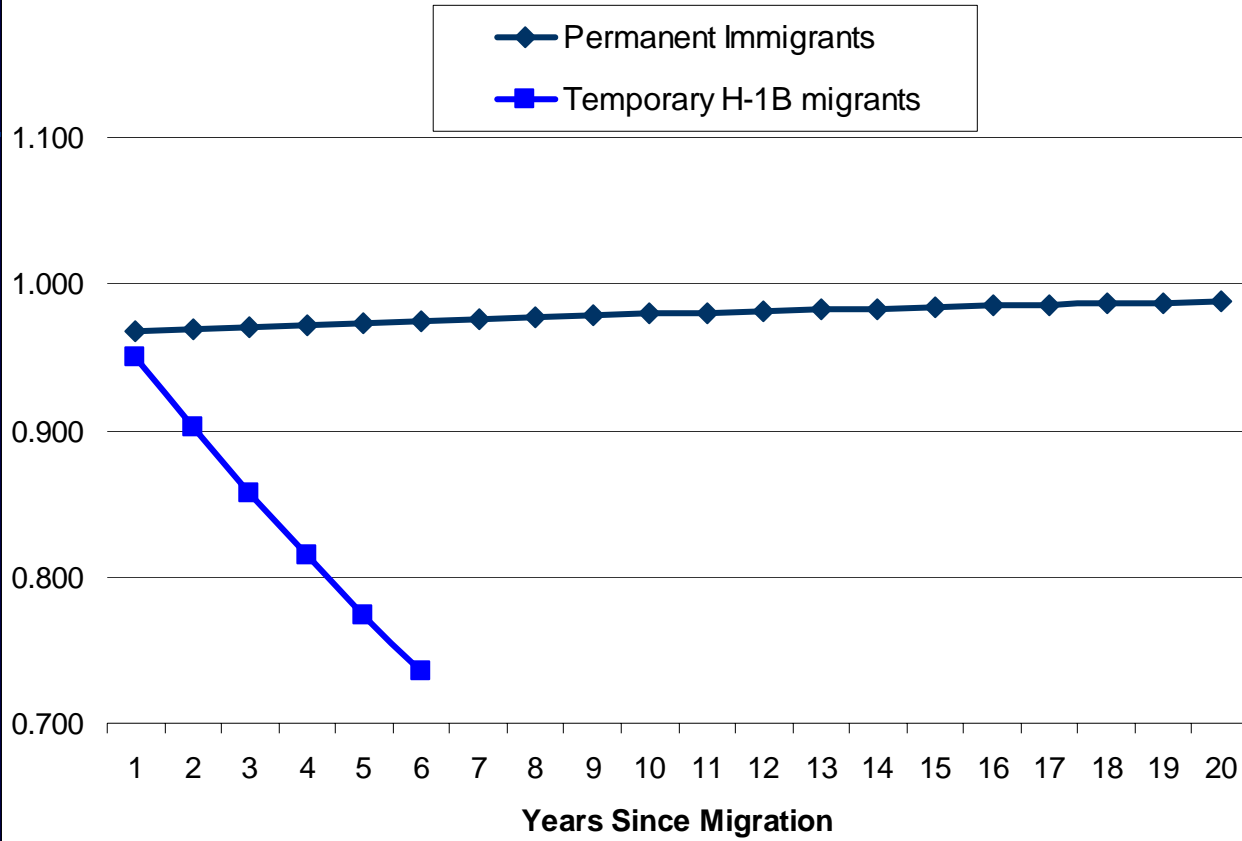
Source: NCHS, total population

CUMULATIVE P(EMIG) BY YEARS IN THE USA



Source: Warren assumptions, Office of Immigration Statistics

Cumulative Stay (Emigration) Rate



Labor Force Participation Rate, STEM Workers Only Arrived Ages 28 TO 32, PUMS 2000 5%

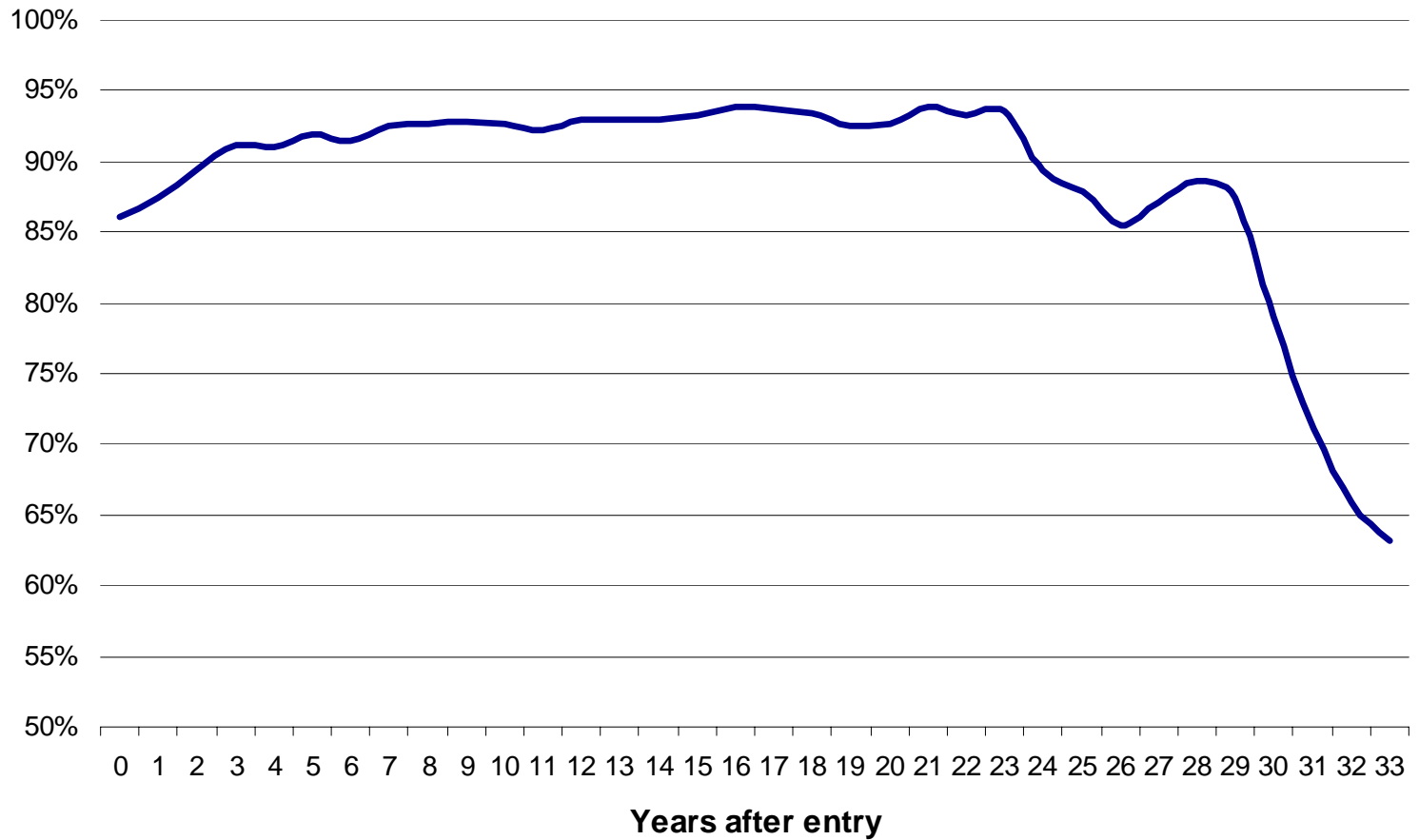
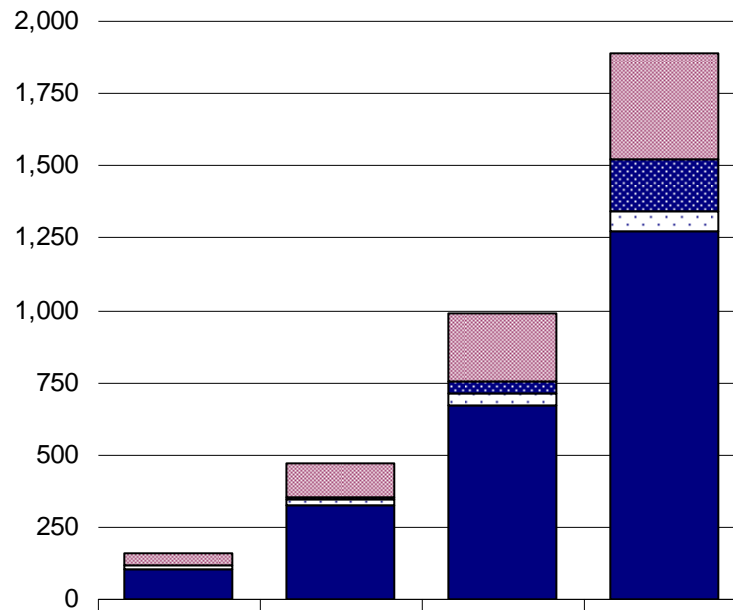


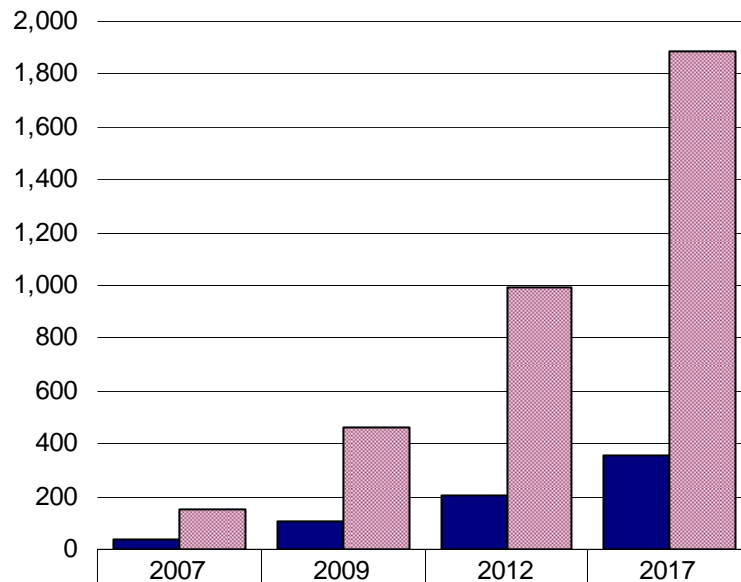
Figure 2. Projections of the Cumulative Number of New Computing and Engineering Immigrants Who Could be Admitted Under Senate S.2611 by Visa Class (1,000s)



	2007	2009	2012	2017
■ Temporary H-1B workers	45	120	235	365
■ Adjusting foreign educated H-1Bs	0	5	45	180
□ Adjusting foreign S&E students	10	20	40	75
■ Legal Permanent Residents	105	325	670	1,270

Source: estimates by author, see text.

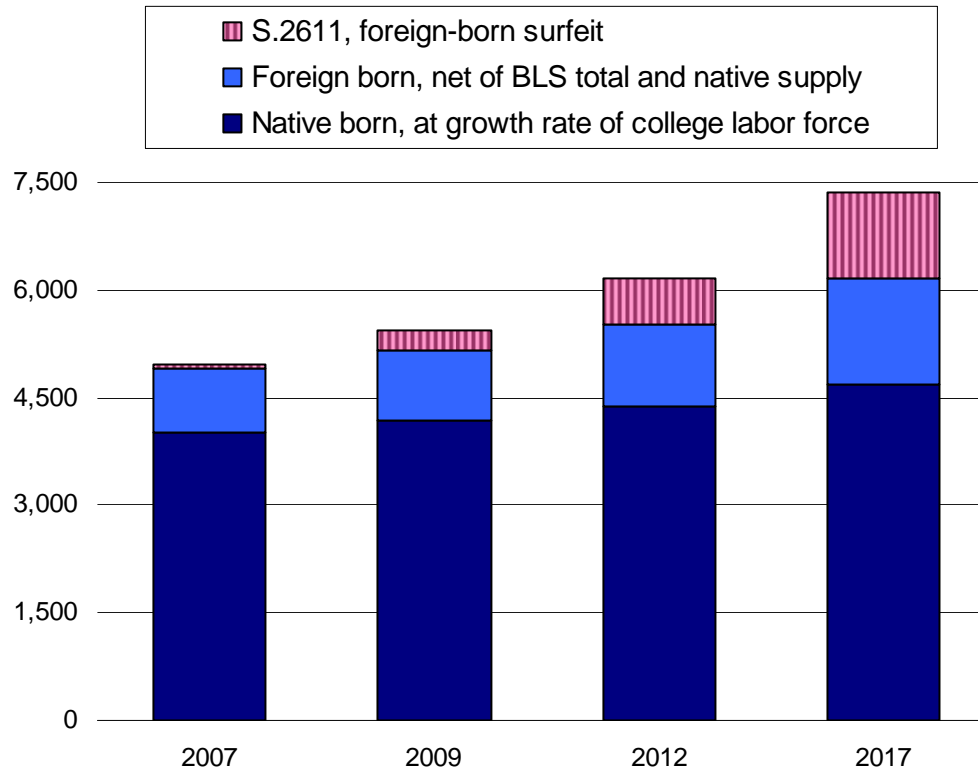
Figure 3. Projections of Newly Admitted Foreign-Born C&E Workers at Today's Levels and Under S.2611



■ New Immigrants at Today's Admission Levels	35	105	205	355
■ New Immigrants at S.2611 Admission Levels	155	465	990	1,885

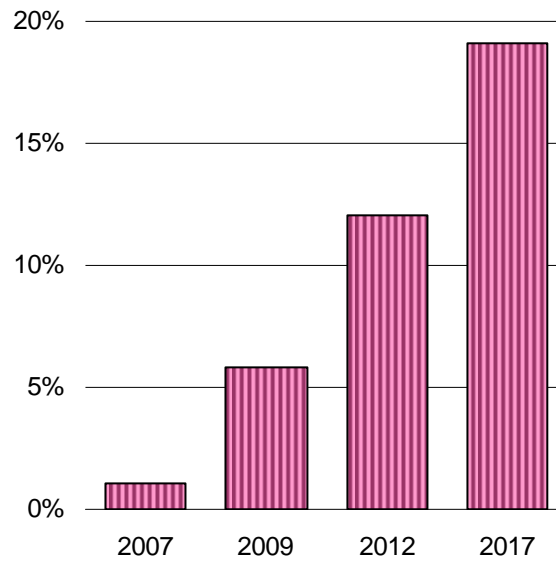
Source: estimates by author, see text.

Figure 4. Projection of Total C&E Workers Consistent with BLS Projections and Estimated Surfeit of Foreign Born Under S.2611 (1,000s)



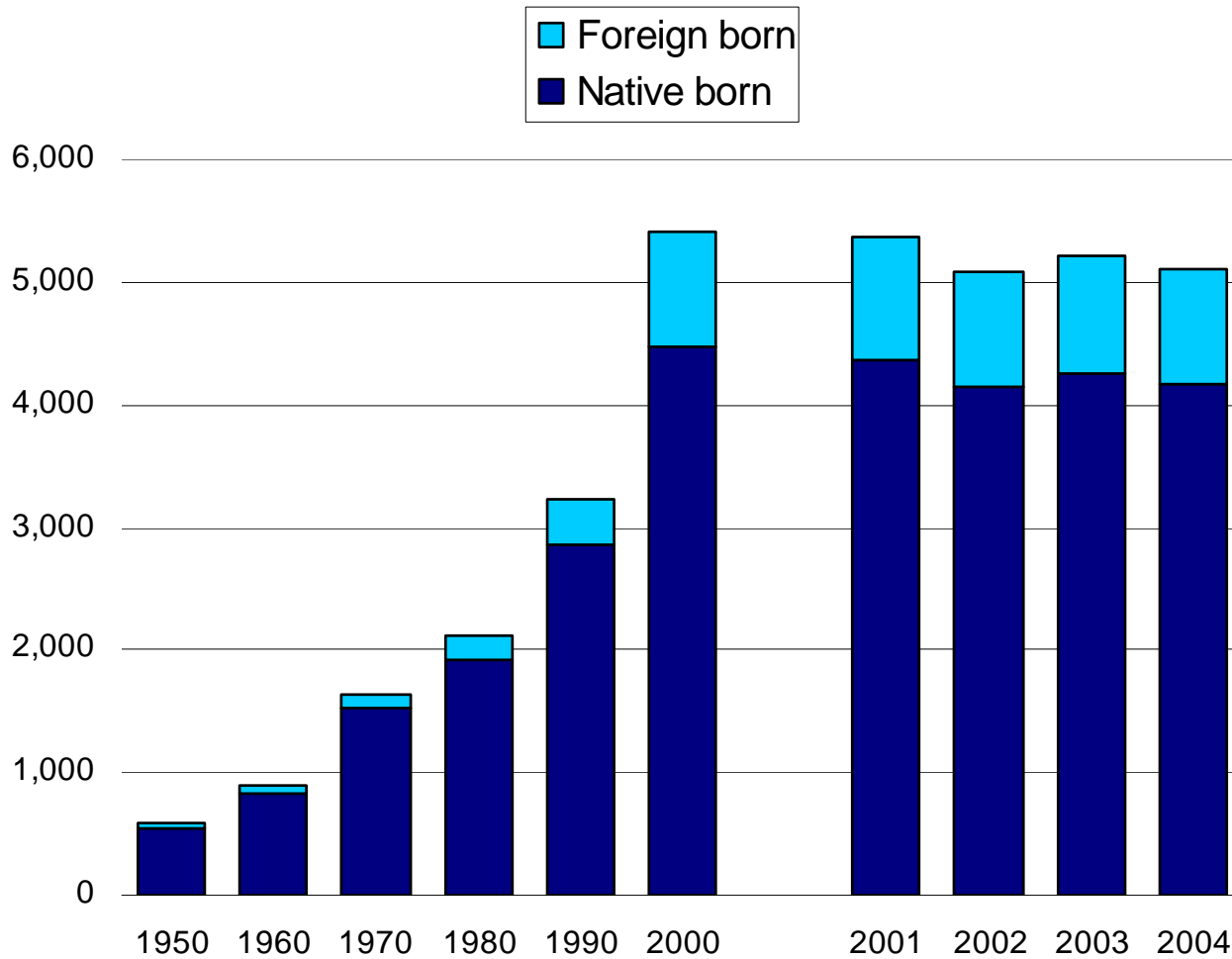
Source: BLS occupational projections and author's estimates

**Figure 5. Surfeit of S.2611 C&E
Foreign Born Over BLS
Projections of C&E Labor Force
(percent)**



Source: BLS projections and author's estimates

Appendix Figure 1. Historical Growth of C&E Workforce as Measured in Census Samples



Source: Lowell and Reget 2006, Census and labor force microdata (see text).