Table 1: Cumulative borrowing statistics from NPSAS, by wave

	1990	1996	2000	2004	2008
Ever borrow	0.545	0.526	0.636	0.656	0.666
Total borrowing (thousands,					
\$2012)					
Mean	7.2	9.2	14.4	14.8	16.7
25^{th}	0.0	0.0	0.0	0.0	0.0
Median	1.9	2.5	10.9	11.6	12.1
75 th	11.4	17.7	24.5	23.8	26.6
$90^{ m th}$	20.8	25.4	34.8	36.4	42.5
95 th	27.3	30.8	42.5	47.7	51.6
99 th	48.1	44.9	60.6	65.6	85.0
Total borrowing among					
borrowers (thousands, \$2012)					
Mean	13.2	17.6	22.6	22.6	25.0
$10^{ m th}$	2.4	5.4	5.6	6.0	5.8
25 th	4.8	9.7	12.9	11.9	12.2
Median	10.4	17.0	21.8	20.4	21.3
75 th	18.0	23.6	29.3	29.8	33.0
$90^{ m th}$	25.7	30.2	38.8	42.6	47.8
95 th	32.1	35.1	49.0	51.6	56.2
99 th	64.2	51.6	64.5	72.7	90.3

Notes: Statistics use population weights (of 2012 vintage) and are for domestic students in the year indicated. Monetary amounts are inflated using the PCE index from the Bureau of Economic Analysis. Borrowing is from all sources except friends and family and excludes loans taken out by parents (PLUS loans).

Table 2A: Oaxaca-Blinder Decompositions of Ever Borrowed, Using Tuition

	2000)–1990	2008	3–1990	2000)–1996	2008-	1996
Mean difference (%-points)	9.03	(1.40)	12.04	(1.43)	10.99	(2.02)	13.99	(2.06)
Composition effects due to:								
Age/dependency status	0.27	(0.33)	-0.87	(0.45)	-0.09	(0.39)	1.17	(0.81)
Sex, marital status, ethnicity	0.86	(0.49)	0.99	(0.55)	0.85	(0.52)	1.21	(0.65)
Parental education	-0.42	(0.30)	-0.50	(0.46)	0.98	(0.69)	1.22	(0.93)
Location, in-state status	-1.01	(0.67)	-1.80	(0.65)	0.41	(0.83)	0.39	(0.87)
School sector, attendance, major	-0.01	(1.99)	0.58	(1.06)	1.75	(0.69)	0.83	(1.02)
Expected family contribution	1.09	(0.28)	0.55	(0.42)	-1.08	(0.84)	-2.90	(1.18)
Tuition and grants	3.40	(1.81)	6.44	(1.95)	-0.73	(1.33)	2.05	(1.88)
Total	4.05	(1.51)	5.38	(2.36)	2.07	(2.16)	3.97	(2.94)
Structural effects due to:								
Age/dependency status	3.07	(1.57)	5.92	(1.62)	-0.08	(2.54)	0.36	(2.69)
Sex, marital status, ethnicity	-4.04	(4.58)	-5.16	(4.32)	11.94	(5.59)	10.58	(5.11)
Parental education	1.51	(1.34)	0.33	(1.09)	1.13	(1.97)	-0.37	(1.58)
Location, in-state status	1.72	(2.05)	1.49	(2.16)	-1.77	(2.95)	-2.76	(3.04)
School sector, attendance, major	-1.94	(11.85)	-2.83	(10.65)	-5.92	(6.25)	-5.18	(5.73)
Expected family contribution	-6.33	(2.34)	-1.85	(2.16)	9.90	(3.53)	15.65	(3.19)
Tuition and grants	0.90	(5.41)	-2.50	(6.20)	-4.20	(8.18)	-7.35	(9.54)
Constant	10.08	(14.51)	11.24	(14.40)	-2.07	(11.54)	-0.90	(11.45)
Total	4.98	(1.57)	6.66	(2.22)	8.93	(2.02)	10.03	(2.67)

Notes: Each column refers to the later period less the earlier period. Oaxaca-Blinder decompositions are based on coefficients from the base period reference and are estimated via OLS (with sample weights). Standard errors robust to heteroskedasticity and intra-college correlation are in parentheses. Borrowing is from all sources except friends and family and excludes loans taken out by parents (PLUS loans). Results change trivially if time to degree is included for the latter two panels.

Table 2B: Oaxaca-Blinder Decompositions of Ever Borrowed, Using Cost of Attendance

	2000	-1990	2008	-1990	2000-	-1996	2008-	-1996
Mean difference (%-points)	9.03	(1.41)	12.04	(1.44)	10.99	(2.02)	13.99	(2.05)
Composition effects due to:								
Age/dependency status	0.28	(0.32)	-0.83	(0.43)	-0.15	(0.39)	1.18	(0.80)
Sex, marital status, ethnicity	0.91	(0.49)	1.12	(0.55)	0.87	(0.50)	1.23	(0.64)
Parental education	-0.41	(0.30)	-0.57	(0.46)	0.90	(0.67)	1.10	(0.91)
Location, in-state status	-1.02	(0.68)	-1.86	(0.66)	0.48	(0.86)	0.38	(0.89)
School sector, attendance, major	-0.51	(0.72)	0.23	(0.78)	1.75	(0.67)	0.80	(1.01)
Expected family contribution	1.18	(0.30)	0.68	(0.44)	-1.08	(0.86)	-2.97	(1.19)
Attendance cost and grants	4.14	(0.94)	7.84	(1.31)	0.50	(1.53)	4.01	(1.82)
Total	4.57	(1.44)	6.62	(1.90)	3.27	(2.26)	5.72	(2.92)
Structural effects due to:								
Age/dependency status	3.12	(1.57)	5.73	(1.63)	-0.43	(2.57)	-0.26	(2.71)
Sex, marital status, ethnicity	-4.94	(4.61)	-6.51	(4.32)	12.78	(5.59)	11.05	(5.15)
Parental education	1.25	(1.33)	0.23	(1.07)	0.84	(1.98)	-0.52	(1.60)
Location, in-state status	1.22	(2.05)	1.82	(2.23)	-1.51	(3.00)	-1.65	(3.11)
School sector, attendance, major	-1.34	(3.91)	-3.68	(3.70)	-6.68	(6.15)	-7.33	(5.77)
Expected family contribution	-7.37	(2.33)	-3.17	(2.17)	9.15	(3.50)	14.74	(3.17)
Attendance cost and grants	-22.89	(9.03)	-5.78	(10.88)	-0.31	(13.41)	17.00	(15.62)
Constant	35.42	(10.88)	16.77	(11.96)	-6.11	(15.16)	-24.76	(17.03)
Total	4.47	(1.54)	5.42	(1.80)	7.73	(2.11)	8.27	(2.59)

Notes: Each column refers to the later period less the earlier period. Oaxaca-Blinder decompositions are based on coefficients from the base period reference and are estimated via OLS (with sample weights). Standard errors robust to heteroskedasticity and intra-college correlation are in parentheses. Borrowing is from all sources except friends and family and excludes loans taken out by parents (PLUS loans). Results change trivially if time to degree is included for the latter two panels.

Table 3A: Recentered Influence Function Decompositions of Borrowing: 2008–1990, Using Tuition

	Mea	an	50 th per	centile	75 th per	centile	90 th per	centile
Difference (000s \$2012)	9.44	(0.27)	10.21	(0.48)	15.16	(0.54)	21.66	(0.53)
Composition effects due to:								
Age/dependency status	-0.19	(0.08)	0.42	(0.14)	0.54	(0.17)	0.21	(0.18)
Sex, marital status, ethnicity	0.12	(0.11)	0.18	(0.14)	0.14	(0.23)	-0.11	(0.25)
Parental education	0.00	(0.10)	0.08	(0.11)	0.27	(0.20)	0.14	(0.20)
Location, in-state status	-0.16	(0.13)	-0.37	(0.30)	-0.18	(0.61)	0.00	(0.63)
School sector, attendance, major	0.57	(0.21)	0.96	(0.54)	0.96	(0.83)	1.65	(1.11)
Expected family contribution	0.24	(0.08)	0.67	(0.22)	1.08	(0.21)	1.28	(0.26)
Attendance cost and grants	1.16	(0.83)	1.32	(1.07)	2.67	(2.03)	-4.06	(2.82)
Total	1.74	(0.86)	3.26	(1.48)	5.48	(2.32)	-0.89	(2.75)
Structural effects due to:								
Age/dependency status	-0.16	(0.45)	0.94	(0.79)	-1.46	(0.83)	-3.05	(1.00)
Sex, marital status, ethnicity	-1.23	(1.00)	-2.48	(1.40)	-2.92	(2.11)	-4.05	(2.09)
Parental education	0.02	(0.25)	0.23	(0.34)	-0.75	(0.44)	-0.32	(0.46)
Location, in-state status	-0.41	(0.85)	-0.58	(0.71)	-0.11	(1.15)	-0.34	(1.45)
School sector, attendance, major	0.28	(1.47)	-2.82	(3.31)	1.11	(2.23)	-1.55	(2.86)
Expected family contribution	-0.29	(0.54)	-1.40	(0.67)	0.81	(0.81)	2.93	(1.10)
Attendance cost and grants	4.26	(1.60)	8.16	(3.51)	3.40	(3.19)	9.64	(3.97)
Constant	5.23	(2.48)	4.89	(5.34)	9.60	(4.20)	16.20	(5.69)
Total	7.70	(0.91)	6.94	(1.76)	9.68	(2.35)	22.55	(2.78)

Table 3B: Recentered Influence Function Decompositions of Borrowing: 2008–1990, Using Cost of Attendance

	Mea	an	50 th per	centile	75 th per	centile	90 th per	centile
Difference (000s \$2012)	9.44	(0.27)	10.21	(0.48)	15.16	(0.54)	21.66	(0.53)
Composition effects due to:								
Age/dependency status	-0.16	(0.07)	0.41	(0.14)	0.46	(0.16)	0.13	(0.17)
Sex, marital status, ethnicity	0.16	(0.10)	0.18	(0.13)	0.14	(0.24)	-0.16	(0.26)
Parental education	0.01	(0.10)	0.08	(0.11)	0.29	(0.20)	0.17	(0.21)
Location, in-state status	-0.19	(0.13)	-0.32	(0.29)	-0.30	(0.60)	-0.04	(0.62)
School sector, attendance, major	0.60	(0.19)	0.96	(0.52)	0.61	(0.79)	1.25	(1.06)
Expected family contribution	0.26	(0.08)	0.61	(0.21)	1.00	(0.21)	1.14	(0.26)
Attendance cost and grants	1.68	(0.35)	2.11	(0.98)	3.71	(1.40)	3.83	(1.93)
Total	2.35	(0.43)	4.03	(1.39)	5.91	(1.78)	6.32	(2.24)
Structural effects due to:								
Age/dependency status	-0.19	(0.45)	1.15	(0.71)	-1.75	(0.80)	-3.47	(0.97)
Sex, marital status, ethnicity	-2.13	(1.06)	-2.99	(1.50)	-4.35	(2.20)	-5.80	(2.28)
Parental education	-0.01	(0.25)	0.21	(0.33)	-0.87	(0.44)	-0.42	(0.47)
Location, in-state status	-0.31	(0.88)	-0.34	(0.68)	0.05	(1.13)	-0.33	(1.44)
School sector, attendance, major	-1.71	(1.08)	-3.02	(1.09)	-1.94	(2.08)	-2.07	(2.65)
Expected family contribution	-0.87	(0.54)	-2.58	(0.67)	-0.22	(0.83)	1.92	(1.19)
Attendance cost and grants	10.31	(2.60)	21.25	(5.33)	13.14	(4.65)	6.41	(5.43)
Constant	2.01	(3.15)	-7.49	(4.51)	5.18	(5.33)	19.08	(7.22)
Total	7.09	(0.46)	6.18	(1.68)	9.25	(1.79)	15.34	(2.33)

Table 4A: Recentered Influence Function Decompositions of Borrowing: 2000-1990, Using Tuition

	Mea	an	50 th pe	rcentile	75 th pero	centile	90 th pero	centile
Difference (000s \$2012)	7.13	(0.29)	9.03	(0.61)	13.12	(0.52)	13.96	(0.64)
Composition effects due to:								
Age/dependency status	0.13	(0.07)	0.63	(0.22)	0.81	(0.19)	0.33	(0.21)
Sex, marital status, ethnicity	0.11	(0.10)	0.09	(0.11)	0.05	(0.20)	-0.15	(0.20)
Parental education	-0.01	(0.07)	0.05	(0.07)	0.02	(0.13)	0.14	(0.15)
Location, in-state status	-0.07	(0.14)	-0.88	(0.39)	-0.50	(0.56)	0.07	(0.70)
School sector, attendance, major	-0.02	(0.25)	1.05	(0.65)	-0.01	(0.67)	-0.25	(0.92)
Expected family contribution	0.15	(0.06)	0.49	(0.17)	0.47	(0.11)	0.42	(0.12)
Tuition and grants	0.85	(0.36)	-0.12	(0.45)	0.15	(0.76)	-1.36	(0.92)
Total	1.15	(0.34)	1.32	(0.61)	0.99	(0.89)	-0.80	(0.98)
Structural effects due to:								
Age/dependency status	-0.51	(0.40)	-0.62	(0.84)	0.12	(0.75)	-6.72	(1.26)
Sex, marital status, ethnicity	-1.72	(0.98)	-2.62	(1.88)	-1.21	(2.18)	-4.34	(2.56)
Parental education	0.17	(0.35)	1.37	(0.57)	-0.52	(0.49)	0.11	(0.72)
Location, in-state status	0.23	(0.74)	1.28	(0.85)	0.38	(1.01)	-1.66	(1.53)
School sector, attendance, major	1.37	(1.77)	-5.63	(4.07)	1.80	(2.68)	1.54	(3.83)
Expected family contribution	-1.82	(0.49)	-6.99	(1.15)	-0.09	(0.91)	-0.12	(1.51)
Tuition and grants	2.78	(1.40)	7.15	(2.93)	-0.70	(2.73)	8.73	(3.20)
Constant	5.47	(2.58)	13.42	(5.52)	12.27	(4.77)	17.22	(6.30)
Total	5.99	(0.46)	7.71	(0.99)	12.14	(1.02)	14.75	(1.25)

Table 4B: Recentered Influence Function Decompositions of Borrowing: 2000–1990, Using Cost of Attendance

	Mea	an	50 th pe	ercentile	75 th p	ercentile	90 th per	centile
Difference (000s \$2012)	7.13	(0.29)	9.03	(0.61)	13.12	(0.52)	13.96	(0.64)
Composition effects due to:								
Age/dependency status	0.11	(0.06)	0.61	(0.21)	0.70	(0.19)	0.21	(0.21)
Sex, marital status, ethnicity	0.14	(0.09)	0.08	(0.11)	0.04	(0.20)	-0.18	(0.21)
Parental education	-0.02	(0.07)	0.06	(0.08)	0.04	(0.13)	0.15	(0.16)
Location, in-state status	-0.07	(0.14)	-0.84	(0.37)	-0.66	(0.54)	-0.04	(0.68)
School sector, attendance, major	0.21	(0.16)	0.61	(0.42)	0.09	(0.71)	0.12	(0.95)
Expected family contribution	0.17	(0.06)	0.50	(0.17)	0.49	(0.11)	0.43	(0.12)
Attendance cost and grants	0.64	(0.24)	0.31	(0.61)	0.25	(0.70)	0.29	(0.69)
Total	1.17	(0.32)	1.32	(0.67)	0.94	(0.87)	0.96	(0.87)
Structural effects due to:								
Age/dependency status	-0.41	(0.41)	-0.30	(0.79)	-0.17	(0.77)	-6.64	(1.24)
Sex, marital status, ethnicity	-2.26	(0.96)	-2.51	(1.98)	-2.33	(2.17)	-5.63	(2.64)
Parental education	0.13	(0.35)	1.24	(0.57)	-0.66	(0.49)	-0.04	(0.74)
Location, in-state status	0.30	(0.78)	1.23	(0.85)	0.49	(1.01)	-1.60	(1.51)
School sector, attendance, major	-0.52	(1.31)	-4.98	(1.75)	-1.25	(2.65)	-3.27	(3.99)
Expected family contribution	-2.34	(0.51)	-7.80	(1.17)	-0.83	(0.92)	-1.80	(1.58)
Attendance cost and grants	3.27	(1.94)	12.27	(5.94)	0.74	(3.73)	10.76	(5.08)
Constant	7.81	(2.54)	8.56	(5.52)	16.20	(5.36)	21.21	(6.88)
Total	5.96	(0.41)	7.71	(0.97)	12.18	(1.05)	12.99	(1.08)

Table 5A: Recentered Influence Function Decompositions of Borrowing: 2008–2000, Using Tuition

	Me	an	50 th per	rcentile	75 th per	centile	90 th per	centile
Difference (000s \$2012)	2.31	(0.25)	1.18	(0.50)	2.03	(0.38)	7.70	(0.61)
Composition effects due to:								
Age/dependency status	-0.51	(0.11)	-0.34	(0.12)	-0.25	(0.07)	-0.57	(0.18)
Sex, marital status, ethnicity	0.11	(0.05)	0.26	(0.09)	0.13	(0.05)	0.26	(0.12)
Parental education	0.47	(0.08)	1.16	(0.19)	0.40	(0.08)	0.52	(0.14)
Location, in-state status	-0.07	(0.06)	-0.04	(0.21)	0.02	(0.10)	0.42	(0.23)
School sector, attendance, major	0.16	(0.10)	0.50	(0.28)	0.45	(0.14)	0.92	(0.33)
Expected family contribution	0.18	(0.08)	1.33	(0.17)	0.66	(0.07)	1.30	(0.19)
Tuition and grants	1.03	(0.15)	2.44	(0.41)	1.10	(0.20)	2.15	(0.45)
Total	1.37	(0.24)	5.30	(0.65)	2.52	(0.27)	5.01	(0.61)
Structural effects due to:								
Age/dependency status	0.54	(0.42)	1.70	(0.66)	-1.60	(0.48)	4.12	(1.21)
Sex, marital status, ethnicity	0.38	(0.94)	-0.38	(1.48)	-1.84	(1.05)	0.07	(2.39)
Parental education	-0.61	(0.22)	-2.27	(0.43)	-0.38	(0.30)	-0.95	(0.44)
Location, in-state status	-0.66	(0.59)	-1.31	(0.85)	-0.19	(0.65)	0.83	(1.16)
School sector, attendance, major	-0.67	(0.81)	2.22	(1.14)	-0.16	(0.70)	0.98	(1.48)
Expected family contribution	1.44	(0.54)	4.43	(0.84)	0.84	(0.44)	2.61	(0.80)
Tuition and grants	0.76	(1.39)	0.01	(2.66)	5.52	(1.52)	-3.95	(3.03)
Constant	-0.24	(1.88)	-8.53	(3.21)	-2.68	(2.10)	-1.03	(3.79)
Total	0.94	(0.30)	-4.13	(0.75)	-0.49	(0.45)	2.70	(0.90)

Table 5B: Recentered Influence Function Decompositions of Borrowing: 2008–2000, Using Cost of Attendance

	Me	ean	50 th po	ercentile	75 th p	ercentile	90 th pe	ercentile
Difference (000s \$2012)	2.31	(0.25)	1.18	(0.50)	2.03	(0.38)	7.70	(0.61)
Composition effects due to:								
Age/dependency status	-0.47	(0.11)	-0.30	(0.11)	-0.23	(0.06)	-0.55	(0.17)
Sex, marital status, ethnicity	0.10	(0.04)	0.24	(0.09)	0.12	(0.05)	0.24	(0.12)
Parental education	0.44	(0.08)	1.11	(0.19)	0.38	(0.08)	0.48	(0.14)
Location, in-state status	-0.08	(0.06)	0.02	(0.21)	0.08	(0.10)	0.59	(0.24)
School sector, attendance, major	0.12	(0.10)	0.37	(0.27)	0.33	(0.13)	0.60	(0.30)
Expected family contribution	0.18	(0.08)	1.40	(0.17)	0.70	(0.08)	1.42	(0.20)
Attendance cost and grants	1.96	(0.18)	4.29	(0.40)	2.34	(0.21)	4.61	(0.63)
Total	2.26	(0.24)	7.13	(0.62)	3.72	(0.28)	7.39	(0.85)
Structural effects due to:								
Age/dependency status	0.42	(0.40)	1.54	(0.64)	-1.59	(0.47)	3.65	(1.15)
Sex, marital status, ethnicity	0.05	(0.92)	-0.62	(1.48)	-2.04	(1.03)	-0.38	(2.37)
Parental education	-0.55	(0.22)	-2.12	(0.43)	-0.32	(0.30)	-0.85	(0.45)
Location, in-state status	-0.64	(0.57)	-1.06	(0.81)	-0.15	(0.65)	0.69	(1.17)
School sector, attendance, major	-0.92	(0.82)	1.94	(1.13)	-0.50	(0.73)	1.74	(1.52)
Expected family contribution	1.38	(0.52)	3.93	(0.85)	0.42	(0.46)	3.01	(0.86)
Attendance cost and grants	6.12	(2.52)	6.49	(5.04)	13.52	(3.17)	-5.42	(5.70)
Constant	-5.80	(2.95)	-16.05	(5.47)	-11.02	(3.50)	-2.13	(5.99)
Total	0.06	(0.29)	-5.96	(0.71)	-1.69	(0.44)	0.32	(1.15)

Appendix Table 1A: Summary statistics of BA/BS graduates from NPSAS, by wave

	1990	1996	2000	2004	2008
Family income (thousands, \$2012),					
dependent students	04.6	067	06.2	07.2	107.0
Mean	94.6	96.7	96.3	97.2	107.0
25 th	51.8	49.5	52.6	49.1	55.0
Median	78.8	81.9	85.5	84.8	95.0
75 th	116.0	121.4	125.8	125.8	138.6
Family income (thousands,\$2012), independent students					
Mean	30.8	31.1	39.6	39.5	34.2
25 th	8.8	7.3	11.2	11.5	9.1
Median	20.2	20.2	26.9	28.5	23.4
75 th					
/5	46.5	43.3	55.1	56.3	49.1
Expected Family Contribution (thousands, \$2012), dependents					
Mean	18.9	15.4	16.2	17.2	19.8
25 th	5.0	4.4	5.1	4.5	5.4
Median	10.8	11.0	12.0	11.7	15.2
75 th	23.3	21.0	23.3	21.8	27.6
73	23.3	21.0	23.3	21.0	27.0
Expected Family Contribution (thousands, \$2012), independents					
Mean	9.9	7.2	8.0	7.9	6.0
25^{th}	2.1	0.4	0.0	0.0	0.0
Median	4.2	3.1	3.9	2.9	2.1
75 th	12.5	10.2	11.3	10.1	8.0
List tuition (thousands, \$2012)					
Missing (%)	8.4	3.4	4.3	5.5	7.4
Mean	6.3	8.4	8.4	9.4	11.1
25 th	1.8	2.8	2.7	3.5	4.1
Median	3.3	4.7	4.8	5.5	7.0
75 th	3.5 8.5	12.6		3.3 11.8	
73	8.3	12.0	10.9	11.8	14.4
List cost of attendance (thousands, \$2012)					
Missing (%)	8.8	3.4	5.6	5.6	7.4
Mean	17.9	17.5	18.4	19.6	22.7
25 th	10.0	11.8	11.4	12.3	13.6
Median	15.9	14.8	15.7	17.1	19.8
75 th	23.8	22.2	22.7	23.9	29.5
Total grants (thousands, \$2012)					
Mean	2.2	2.8	3.4	3.9	4.8
25 th	0.0	0.0	0.0	0.0	0.0
Median	0.0	0.3	0.7	1.6	2.1
75 th	3.1	3.8	0.7 4.7	5.7	7.0
Tuition net of grants (thousands,	5.1	2.0	•••	2.,	,.0
\$2012)					
Missing (%)	8.4	3.4	4.3	5.5	7.4
Mean	4.3	5.6	4.9	5.5	6.3
1.17411	1.5	5.0	1.2	5.5	0.5

25 th	0.8	1.4	0.9	0.9	1.1
Median	2.4	3.4	3.1	3.6	4.3
75 th	5.3	7.4	6.8	7.6	9.3
Cost of attendance net of grants					
(thousands, \$2012)					
Missing (%)	8.8	3.4	5.6	5.6	7.4
Mean	15.7	14.8	14.9	15.7	17.9
25 th	8.2	9.3	8.9	9.1	10.0
Median	13.7	13.2	13.4	13.8	15.9
75 th	21.0	18.1	18.4	19.6	23.2

Notes: Statistics use population weights and are for domestic students graduating with a bachelors degree in the year indicated. Monetary amounts are inflated using the PCE index from the Bureau of Economic Analysis. Family income is for the calendar year two years prior to graduation year; tuition and fees is for the final year of enrollment for students who attended only one institution that year and is adjusted for attendance intensity. (Both tuition restrictions reflect reporting by NPSAS and not by the authors.) Cost of attendance is tuition plus room and board, books, travel, and other expenses (also adjusted for attendance intensity by NPSAS).

Appendix Table 1B: Summary statistics of BA/BS graduates from NPSAS, by wave

Dependent Sp.0 S8.7 S8.2 Sp.1 62.7 Independent 41.0 41.3 41.8 40.9 37.3 37.3 37.5 37		1990	1996	2000	2004	2008
Independent	Dependency Status					
Age		59.0	58.7	58.2	59.1	62.7
Less than 21 3.9	Independent	41.0	41.3	41.8	40.9	37.3
21	Age					
22 26.1 22.9 24.0 23.5 23.8 23 12.1 113.4 12.6 12.4 12.9 24 6.1 6.8 6.3 6.3 6.2 25 to 29 10.3 16.0 13.5 12.7 12.1 30 to 34 5.5 4.3 5.7 5.7 4.8 Older than 34 9.9 9.2 10.8 10.9 9.2 Sex Male 45.3 43.5 42.5 42.1 42.8 Female 54.7 56.5 57.5 57.9 57.2 Marrial Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Marrial Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Marriad Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Marriad Status Valuation 70.3 10	Less than 21	3.9	1.5	2.0	6.1	7.0
23 12.1 13.4 12.6 12.4 12.9 24 6.1 6.8 6.3 6.3 6.2 25 to 29 10.3 16.0 13.5 12.7 12.1 30 to 34 5.5 4.3 5.7 5.7 4.8 Older than 34 9.9 9.2 10.8 10.9 9.2 Sex Male 45.3 43.5 42.5 42.1 42.8 Female 54.7 56.5 57.5 57.9 57.2 Married 19.7 15.1 16.9 17.5 14.1 Separated 0.7 0.3 1.0 1.3 1.0 RaceEthnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9	21	26.2	26.0	25.0	22.5	23.8
24 6.1 6.8 6.3 6.3 6.2 25 to 29 10.3 16.0 13.5 12.7 12.1 30 to 34 5.5 4.3 5.7 5.7 4.8 Older than 34 9.9 9.2 10.8 10.9 9.2 Sex Male 45.3 43.5 42.5 42.1 42.8 Female 54.7 56.5 57.5 57.9 57.2 Marrial Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Married 19.7 15.1 16.9 17.5 14.1 Separated 0.7 0.3 1.0 1.3 1.0 Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5	22	26.1	22.9	24.0	23.5	23.8
25 to 29	23	12.1	13.4	12.6	12.4	12.9
30 to 34	24	6.1	6.8	6.3	6.3	6.2
Sex Sex Male 45.3 43.5 42.5 42.1 42.8 Female 54.7 56.5 57.5 57.9 57.2 Marital Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Married 19.7 15.1 16.9 17.5 14.1 Separated 0.7 0.3 1.0 1.3 1.0 Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education 10 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8	25 to 29	10.3	16.0	13.5	12.7	12.1
Sex Male 45.3 43.5 42.5 42.1 42.8 Female 54.7 56.5 57.5 57.9 57.2 Marital Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Married 19.7 15.1 16.9 17.5 14.1 Separated 0.7 0.3 1.0 1.3 1.0 Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education 10 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0	30 to 34	5.5	4.3	5.7	5.7	4.8
Male Female 45.3 43.5 56.5 57.5 57.9 57.2 Marital Status Single, divorced, widowed Married 79.6 84.6 82.2 81.2 84.9 8	Older than 34	9.9	9.2	10.8	10.9	9.2
Female 54.7 56.5 57.5 57.9 57.2 Marital Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Married 19.7 15.1 16.9 17.5 14.1 Separated 0.7 0.3 1.0 1.3 1.0 Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Value 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 Hs/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 <t< td=""><td>Sex</td><td></td><td></td><td></td><td></td><td></td></t<>	Sex					
Marital Status Single, divorced, widowed 79.6 84.6 82.2 81.2 84.9 Married 19.7 15.1 16.9 17.5 14.1 Separated 0.7 0.3 1.0 1.3 1.0 Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2	Male	45.3	43.5	42.5	42.1	42.8
Single, divorced, widowed Married 79.6 84.6 82.2 81.2 84.9 Married Separated 19.7 15.1 16.9 17.5 14.1 Separated 0.7 0.3 1.0 1.3 1.0 Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2	Female	54.7	56.5	57.5	57.9	57.2
Married Separated 19.7 (0.3) 15.1 (0.9) 17.5 (0.3) 14.1 (0.9) Race/Ethnicity White, non-Hispanic 86.2 (0.9) 82.7 (0.9) 75.6 (0.9) 73.6 (0.9) 70.7 (0.9) Black, non-Hispanic 5.7 (0.0) 8.2 (0.9) 9.2 (0.9) 9.8 (0.9) 9.8 (0.9) 9.8 (0.9) 9.8 (0.9) 9.8 (0.9) 9.8 (0.9) 9.8 (0.9) 9.8 (0.9) 9.8 (0.9) 9.9 (0.9) 9.8 (0.9) 9.9 (0.9) 9.8 (0.9) 9.9 (0.9) 9.8 (0.9) 9.9 (0.9) 9.8 (0.9) 9.9 (0.9) <th< td=""><td>Marital Status</td><td></td><td></td><td></td><td></td><td></td></th<>	Marital Status					
Separated 0.7 0.3 1.0 1.3 1.0 Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Unknown 9.0 11.4 10.2 <	Single, divorced, widowed	79.6	84.6	82.2	81.2	84.9
Race/Ethnicity White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Full-kown 9.0 11.4 10.2 4.4 5.0 Less than HS	Married	19.7	15.1	16.9	17.5	14.1
White, non-Hispanic 86.2 82.7 75.6 73.6 70.7 Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0	Separated	0.7	0.3	1.0	1.3	1.0
Black, non-Hispanic 5.7 6.0 8.2 9.2 9.8 Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Inknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7	Race/Ethnicity					
Hispanic 4.0 4.5 6.8 7.7 9.5 Asian 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 **Mother's Education** Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 **Father's Education** Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 **Attendance Pattern** Full-time, full-year, 1 sch 45.1 55.5 5.4 52.7 54.1 Full-time, full-year, 2+ sch 13.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 1 sch 7.0 1.6 0.9 1.3 1.9	White, non-Hispanic	86.2	82.7	75.6	73.6	70.7
Asian Native American/Other 3.6 5.9 6.2 6.2 7.2 Native American/Other 0.4 1.0 3.3 3.2 2.9 Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Value 10.9 11.3 13.2 14.7 Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8<	Black, non-Hispanic	5.7	6.0	8.2	9.2	9.8
Mother's Education Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern	Hispanic	4.0	4.5	6.8	7.7	9.5
Mother's Education 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 2+ sch 1.3 1	Asian	3.6	5.9	6.2	6.2	7.2
Unknown 7.1 10.3 9.2 2.5 2.7 Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 2+ sc	Native American/Other	0.4	1.0	3.3	3.2	2.9
Less than HS 7.4 5.0 6.8 6.8 6.0 HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 <tr< td=""><td>Mother's Education</td><td></td><td></td><td></td><td></td><td></td></tr<>	Mother's Education					
HS/GED 39.2 36.1 31.0 32.1 27.8 Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 <td>Unknown</td> <td>7.1</td> <td>10.3</td> <td>9.2</td> <td>2.5</td> <td>2.7</td>	Unknown	7.1	10.3	9.2	2.5	2.7
Some college 19.6 18.2 19.1 23.5 26.2 Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4	Less than HS	7.4	5.0	6.8	6.8	6.0
Bachelors 17.3 19.6 22.7 21.9 22.6 Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 2+ sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9	HS/GED	39.2	36.1	31.0	32.1	27.8
Postgraduate 9.4 10.9 11.3 13.2 14.7 Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Some college	19.6	18.2	19.1	23.5	26.2
Father's Education Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Bachelors	17.3	19.6	22.7	21.9	22.6
Unknown 9.0 11.4 10.2 4.4 5.0 Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Postgraduate	9.4	10.9	11.3	13.2	14.7
Less than HS 8.3 6.0 8.0 8.3 7.0 HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Father's Education					
HS/GED 25.2 27.7 25.2 27.7 26.7 Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Unknown	9.0	11.4	10.2	4.4	5.0
Some college 14.7 10.3 14.7 18.8 20.2 Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Less than HS	8.3	6.0	8.0	8.3	7.0
Bachelors 19.8 22.3 23.4 21.9 21.7 Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	HS/GED	25.2	27.7	25.2	27.7	26.7
Postgraduate 19.4 20.5 18.5 18.9 19.5 Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Some college	14.7	10.3	14.7	18.8	20.2
Attendance Pattern Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Bachelors	19.8	22.3	23.4	21.9	21.7
Full-time, full-year, 1 sch 45.1 55.5 52.4 52.7 54.1 Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Postgraduate	19.4	20.5	18.5	18.9	19.5
Full-time, full-year, 2+ sch 1.3 1.5 2.5 3.3 4.5 Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Attendance Pattern					
Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Full-time, full-year, 1 sch	45.1	55.5	52.4	52.7	54.1
Full-time, part-year 16.0 11.9 18.0 13.5 13.4 Part-time, full-year, 1 sch 17.3 19.8 15.6 17.9 14.4 Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Full-time, full-year, 2+ sch	1.3	1.5	2.5	3.3	4.5
Part-time, full-year, 2+ sch 7.0 1.6 0.9 1.3 1.9	Full-time, part-year	16.0	11.9	18.0	13.5	13.4
	Part-time, full-year, 1 sch	17.3	19.8	15.6	17.9	14.4
Part-time, part-year 13.3 9.8 10.7 11.3 11.7	Part-time, full-year, 2+ sch					1.9
	Part-time, part-year	13.3	9.8	10.7	11.3	11.7

Years to degree					
Unknown	_	0.7	0.3	0.0	0.0
Fewer than four	_	1.6	12.6	10.8	9.0
Four	_	32.6	34.5	34.5	35.8
Five	_	24.4	21.3	22.6	21.2
Six	_	11.6	8.0	8.1	9.2
Seven to nine	_	12.6	9.2	9.3	10.7
Ten or more	_	16.7	14.0	14.7	14.2
Institution Sector					
Public, Nondoctoral	29.6	20.1	19.6	21.6	17.8
Public, Doctoral	36.4	44.8	46.3	45.8	48.5
Private, NFP, Nondoc	19.5	21.9	19.7	17.9	14.9
Private, NFP, Doc	13.8	12.6	13.2	12.4	15.1
Private, FP	0.6	0.6	1.3	2.3	3.7
Institution Region					
New England	10.8	4.7	6.5	8.2	5.7
Mid East	19.5	19.8	17.9	14.8	17.3
Great Lakes	18.9	18.1	16.6	14.4	14.9
Plains	6.7	7.5	8.6	83	7.6
Southeast	18.3	22.4	22.7	26.2	25.3
Southwest	8.2	10.9	10.5	8.5	11.5
Rocky Mts	3.8	2.9	3.7	6.6	3.9
Far West	13.8	13.8	13.5	13.2	13.8
In-state student					
Yes, Public	60.1	58.5	58.1	61.5	61.2
Yes, Private	22.0	22.5	21.8	22.2	21.9
No	17.9	19.1	20.1	16.3	16.9
Major					
Unknown	6.7	2.3	2.5	1.5	0.8
Humanities	13.9	12.6	13.2	12.5	13.7
Social Sciences	14.6	17.3	16.8	15.5	14.7
Life Sciences	4.8	10.0	7.2	6.6	9.5
Physical Sciences/Math	1.8	3.7	2.4	2.6	2.4
Computer Science	2.3	2.5	4.4	5.3	2.4
Engineering	7.1	6.1	4.8	5.3	6.3
Education	7.8	8.8	9.2	10.3	8.2
Business	22.5	19.5	20.1	20.5	20.7
Health	8.9	9.4	9.0	6.9	7.7
Other	9.7	8.0	10.4	13.0	13.6

NOTE: Statistics use population weights and are for domestic students graduating with a bachelors degree in the year indicated. Attendance pattern refers to the final year of enrollment. Years to degree refers to the difference between the calendar year of first postsecondary enrollment and the graduation year indicated. In-state students attend an institution in their state of legal residence.

Appendix Table 2A: Recentered Influence Function Decompositions of Borrowing: 1996-1990, Using Tuition

Difference (000s \$2012)	M	ean	50 th percentile		75 th percentile		90 th percentile	
	2.01	(0.49)	0.58	(0.47)	6.35	(0.97)	4.55	(0.92)
Composition effects due to:								
Age/dependency status	0.13	(0.13)	0.66	(0.20)	0.92	(0.27)	0.43	(0.24)
Sex, marital status, ethnicity	0.12	(0.06)	-0.02	(0.09)	-0.06	(0.11)	-0.11	(0.12)
Parental education	-0.07	(0.07)	0.16	(0.13)	0.16	(0.16)	0.13	(0.17)
Location, in-state status	-0.24	(0.20)	-0.55	(0.32)	-0.40	(0.40)	-0.24	(0.49)
School sector, attendance, major	-0.11	(0.23)	0.54	(0.64)	-0.23	(0.47)	-0.14	(0.55)
Expected family contribution	0.25	(0.09)	0.72	(0.17)	0.88	(0.21)	0.98	(0.22)
Tuition and grants	1.14	(0.33)	0.72	(0.52)	1.65	(0.51)	0.44	(0.84)
Total	1.22	(0.40)	2.23	(0.57)	2.92	(0.75)	1.49	(1.06)
Structural effects due to:								
Age/dependency status	0.52	(0.67)	1.99	(0.55)	1.63	(1.36)	-3.12	(1.30)
Sex, marital status, ethnicity	-1.90	(2.75)	-3.44	(1.72)	-2.44	(5.09)	-3.83	(4.11)
Parental education	0.29	(0.55)	-0.23	(0.49)	0.18	(1.01)	1.60	(1.07)
Location, in-state status	0.68	(0.81)	0.32	(0.59)	-0.21	(1.39)	-0.05	(1.55)
School sector, attendance, major	1.88	(1.86)	-0.57	(4.95)	5.60	(3.44)	3.36	(3.44)
Expected family contribution	-3.72	(0.85)	-1.23	(0.72)	-5.22	(1.62)	-1.13	(1.41)
Tuition and grants	2.92	(2.07)	-1.76	(2.20)	7.31	(4.27)	9.98	(4.07)
Constant	0.14	(3.78)	3.25	(6.14)	-3.42	(7.98)	-3.76	(6.69)
Total	0.79	(0.50)	-1.65	(0.55)	3.43	(0.95)	3.06	(1.33)

Appendix Table 2B: Recentered Influence Function Decompositions of Borrowing: 1996–1990, Using Cost of Attendance

Difference (000s \$2012)	Me	Mean 50 th percentile		50 th percentile 75 th percentile		75 th percentile		ercentile
	2.01	(0.49)	0.58	(0.47)	6.35	(0.97)	4.55	(0.92)
Composition effects due to:								
Age/dependency status	0.13	(0.11)	0.63	(0.19)	0.76	(0.24)	0.25	(0.23)
Sex, marital status, ethnicity	0.18	(0.07)	-0.02	(0.09)	-0.07	(0.12)	-0.13	(0.14)
Parental education	-0.06	(0.07)	0.17	(0.14)	0.15	(0.17)	0.14	(0.18)
Location, in-state status	-0.26	(0.20)	-0.54	(0.31)	-0.50	(0.41)	-0.32	(0.50)
School sector, attendance, major	0.09	(0.19)	0.12	(0.28)	-0.15	(0.45)	0.12	(0.57)
Expected family contribution	0.27	(0.10)	0.71	(0.18)	0.89	(0.21)	0.95	(0.22)
Attendance cost and grants	0.40	(0.19)	0.94	(0.28)	0.80	(0.41)	0.19	(0.42)
Total	0.73	(0.38)	2.00	(0.52)	1.88	(0.74)	1.19	(0.80)
Structural effects due to:								
Age/dependency status	0.65	(0.67)	1.89	(0.55)	1.73	(1.34)	-3.21	(1.32)
Sex, marital status, ethnicity	-3.02	(2.97)	-4.04	(1.72)	-4.43	(5.37)	-5.87	(4.50)
Parental education	0.39	(0.56)	-0.17	(0.48)	0.42	(1.02)	1.69	(1.09)
Location, in-state status	0.68	(0.84)	0.19	(0.60)	-0.40	(1.39)	-0.25	(1.57)
School sector, attendance, major	0.02	(1.69)	1.54	(1.56)	1.36	(3.46)	-1.73	(3.46)
Expected family contribution	-3.75	(0.85)	-1.58	(0.71)	-6.15	(1.59)	-2.22	(1.43)
Attendance cost and grants	0.72	(2.77)	-9.79	(3.30)	2.93	(6.41)	5.66	(5.47)
Constant	5.60	(4.27)	10.54	(4.09)	9.00	(9.07)	9.30	(7.89)
Total	1.28	(0.49)	-1.43	(0.50)	4.47	(0.96)	3.36	(1.11)

Appendix Table 3A: Recentered Influence Function Decompositions of Borrowing: 2000-1996, Using Tuition

Difference (000s \$2012)	Me	ean	50 th percentile		75 th percentile		90 th percentile	
	5.12	(0.46)	8.45	(0.60)	6.78	(0.83)	9.41	(0.86)
Composition effects due to:								
Age/dependency status	0.04	(0.12)	0.01	(0.04)	-0.05	(0.15)	-0.12	(0.31)
Sex, marital status, ethnicity	0.13	(0.14)	0.07	(0.06)	0.05	(0.21)	0.01	(0.15)
Parental education	-0.04	(0.15)	-0.06	(0.09)	0.08	(0.33)	-0.10	(0.29)
Location, in-state status	0.11	(0.17)	-0.08	(0.15)	0.31	(0.46)	0.03	(0.39)
School sector, attendance, major	0.37	(0.16)	0.35	(0.17)	0.07	(0.53)	0.70	(0.52)
Expected family contribution	-0.32	(0.18)	-0.43	(0.11)	-1.12	(0.31)	-0.68	(0.20)
Tuition and grants	-0.12	(0.32)	-0.52	(0.25)	-0.83	(0.86)	-0.54	(0.85)
Total	0.18	(0.51)	-0.67	(0.33)	-1.50	(1.12)	-0.70	(1.02)
Structural effects due to:								
Age/dependency status	-1.06	(0.63)	-2.65	(0.67)	-1.58	(1.23)	-3.59	(1.21)
Sex, marital status, ethnicity	0.05	(2.69)	1.21	(1.61)	1.38	(4.68)	-0.57	(4.29)
Parental education	-0.02	(0.47)	1.55	(0.49)	-0.92	(0.75)	-1.37	(0.83)
Location, in-state status	-0.39	(0.68)	0.71	(0.82)	0.18	(1.33)	-1.33	(1.43)
School sector, attendance, major	-0.78	(1.46)	-4.91	(1.44)	-3.65	(2.75)	-2.64	(2.69)
Expected family contribution	2.12	(0.88)	-5.55	(0.88)	5.85	(1.62)	1.13	(1.42)
Tuition and grants	-0.31	(1.96)	8.59	(2.09)	-8.68	(3.98)	-2.51	(3.61)
Constant	5.33	(3.58)	10.17	(3.05)	15.69	(7.18)	20.99	(6.40)
Total	4.94	(0.48)	9.13	(0.62)	8.28	(1.13)	10.10	(1.11)

Appendix Table 3B: Recentered Influence Function Decompositions of Borrowing: 2000–1996, Using Cost of Attendance

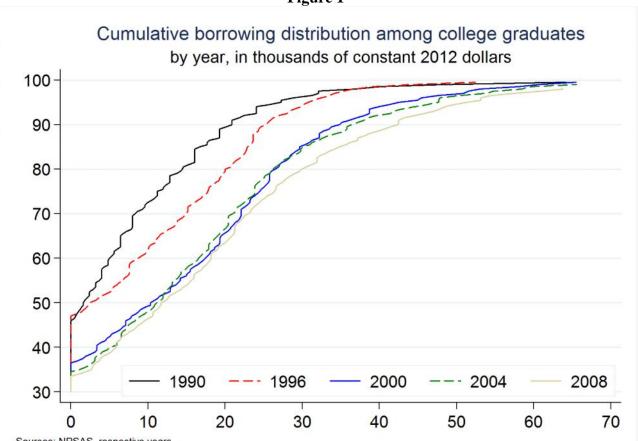
Difference (000s \$2012)	M	ean	50 th p	50 th percentile		75 th percentile		90 th percentile	
	5.12	(0.46)	8.45	(0.60)	6.78	(0.83)	9.41	(0.86)	
Composition effects due to:									
Age/dependency status	0.01	(0.12)	0.02	(0.05)	0.01	(0.13)	-0.07	(0.28)	
Sex, marital status, ethnicity	0.15	(0.14)	0.08	(0.06)	0.10	(0.20)	0.03	(0.15)	
Parental education	-0.07	(0.15)	-0.08	(0.09)	-0.03	(0.34)	-0.16	(0.29)	
Location, in-state status	0.13	(0.18)	-0.13	(0.16)	0.11	(0.46)	-0.15	(0.40)	
School sector, attendance, major	0.39	(0.15)	0.42	(0.16)	0.39	(0.50)	0.78	(0.51)	
Expected family contribution	-0.31	(0.18)	-0.45	(0.12)	-1.19	(0.33)	-0.73	(0.21)	
Attendance cost and grants	0.21	(0.35)	-0.37	(0.25)	-0.61	(0.87)	-0.30	(0.82)	
Total	0.51	(0.53)	-0.52	(0.35)	-1.22	(1.13)	-0.59	(1.04)	
Structural effects due to:									
Age/dependency status	-1.09	(0.63)	-2.23	(0.65)	-1.97	(1.18)	-3.40	(1.20)	
Sex, marital status, ethnicity	0.57	(2.88)	1.55	(1.59)	2.11	(4.97)	0.16	(4.56)	
Parental education	-0.15	(0.48)	1.39	(0.49)	-1.18	(0.76)	-1.56	(0.83)	
Location, in-state status	-0.32	(0.70)	0.87	(0.83)	0.61	(1.32)	-0.92	(1.46)	
School sector, attendance, major	-0.80	(1.48)	-6.45	(1.37)	-2.76	(2.94)	-2.31	(2.60)	
Expected family contribution	1.61	(0.86)	-5.99	(0.86)	6.10	(1.59)	0.63	(1.45)	
Attendance cost and grants	2.58	(2.91)	21.80	(4.11)	-2.13	(5.85)	5.49	(5.57)	
Constant	2.21	(4.28)	-1.98	(4.47)	7.20	(8.24)	11.91	(7.62)	
Total	4.61	(0.49)	8.97	(0.63)	8.00	(1.12)	10.00	(1.12)	

Appendix Table 4: Sample Sizes

	1990	1996	2000	2004	2008
College Graduates	3,270	1,340	12,230	5,170	23,340
Weighted: College Graduates	724,000	897,000	1,217,000	1,448,000	1,822,000

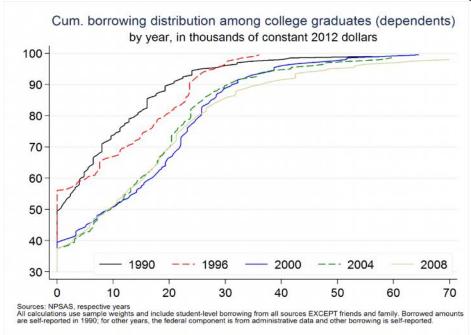
NOTE: College graduates are oversampled in 1993, 2000, and 2008, as these years represent sampling frames for the Baccalaureate and Beyond longitudinal studies. Sample sizes are rounded to the nearest 10 (thousand for weighted numbers) to comply with disclosure restrictions.

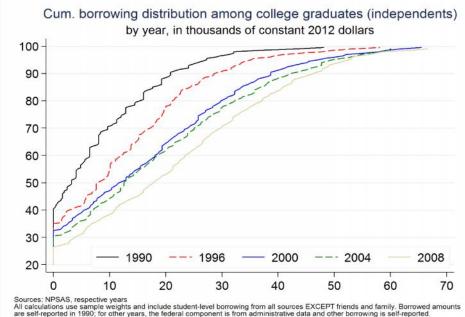
Figure 1



Sources: NPSAS, respective years
All calculations use sample weights and include student-level borrowing from all sources EXCEPT friends and family. Borrowed amounts are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

Figure 2





Cum. borrowing distribution among college graduates (publics) by year, in thousands of constant 2012 dollars -- 1996 -- 2004

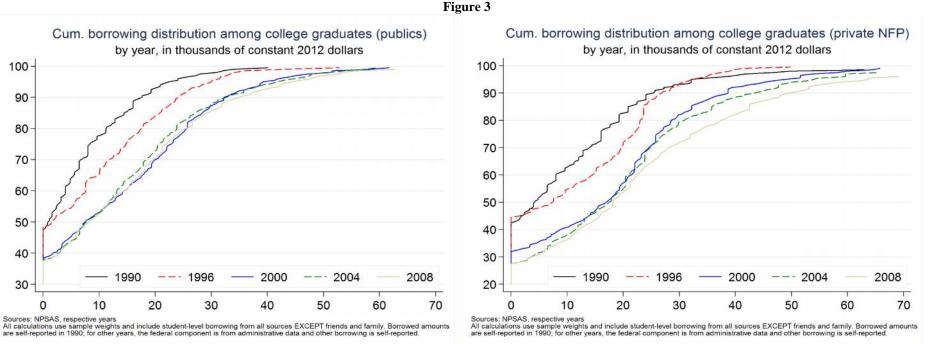
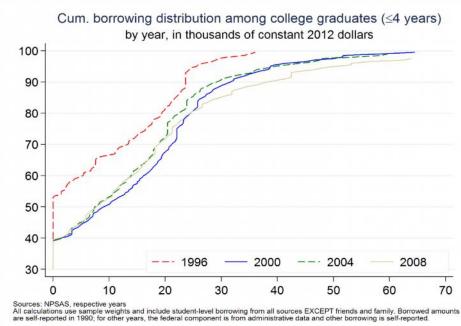


Figure 4



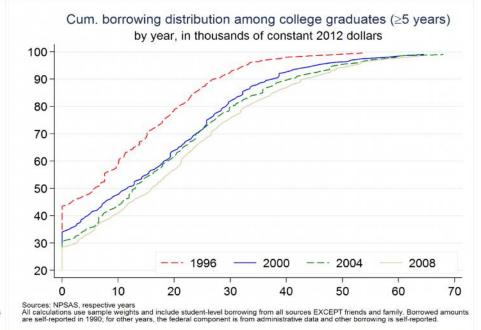
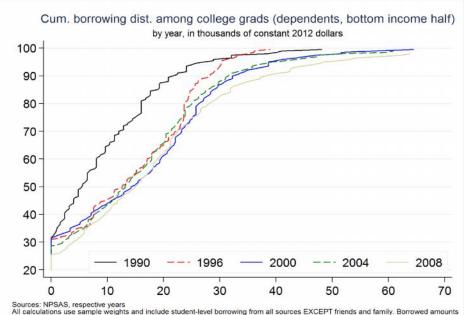
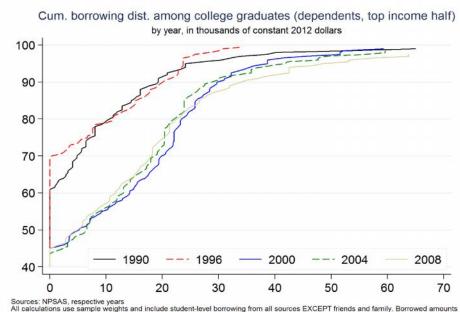


Figure 5

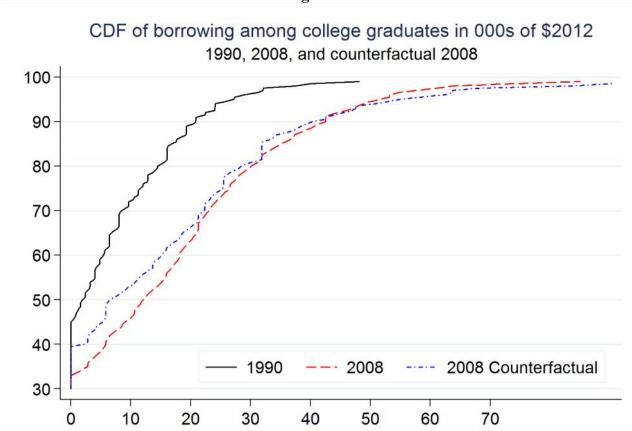


are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.



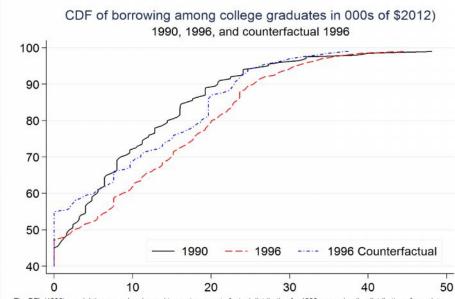
are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

Figure 6

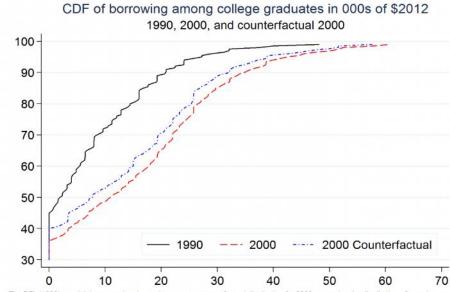


The DFL (1996) reweighting procedure is used to create a counterfactual distribution for 2008, assuming the distribution of covariates was the same as in 1990. See text for set of covariates. Student-level borrowing is from all sources except friends and family. Sources: NPSAS, respective years.

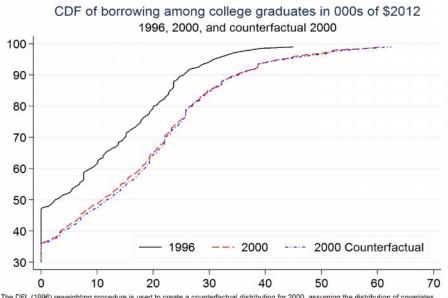
Figure 7



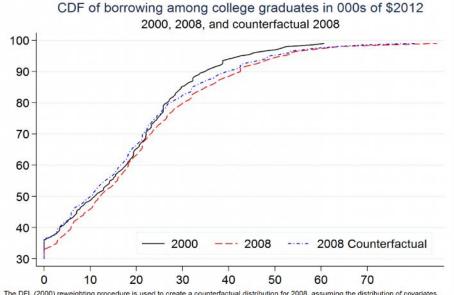
The DFL (1996) reweighting procedure is used to create a counterfactual distribution for 1996, assuming the distribution of covariates was the same as in 1990. See text for set of covariates. Student-level borrowing is from all sources except friends and family. Sources: NPSAS, respective years.



The DFL (1996) reweighting procedure is used to create a counterfactual distribution for 2000, assuming the distribution of covariates was the same as in 1990. See text for set of covariates. Student-level borrowing is from all sources except friends and family. Sources: NPSAS, respective years.



The DFL (1996) reweighting procedure is used to create a counterfactual distribution for 2000, assuming the distribution of covariates was the same as in 1996. See text for set of covariates. Student-level borrowing is from all sources except friends and family. Sources: NPSAS, respective years.



The DFL (2000) reweighting procedure is used to create a counterfactual distribution for 2008, assuming the distribution of covariates was the same as in 2000. See text for set of covariates. Student-level borrowing is from all sources except friends and family. Sources: NPSAS, respective years.

Figure 8

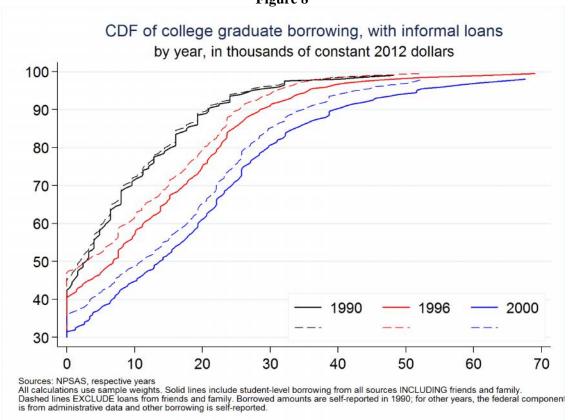
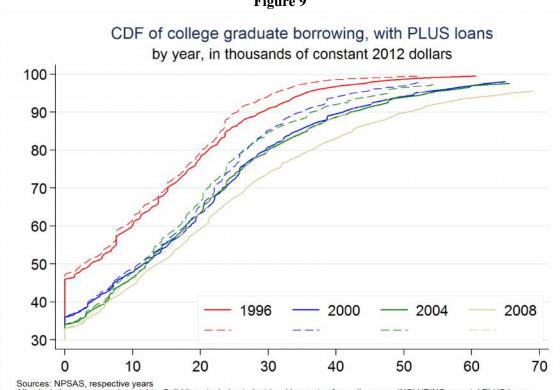
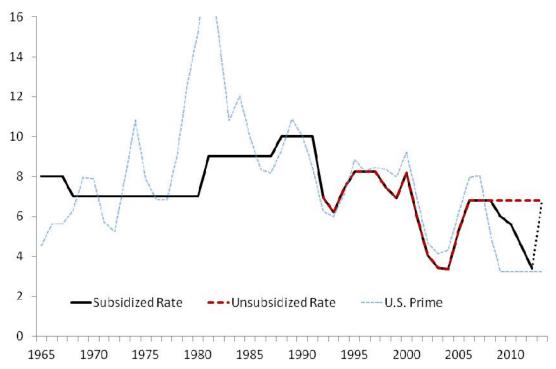


Figure 9



Sources: NPSAS, respective years
All calculations use sample weights. Solid lines include student-level borrowing from all sources INCLUDING parental PLUS loans.
Dashed lines EXCLUDE parental PLUS loans. Borrowed amounts are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

Figure 10
Interest Rates on New Undergraduate Stafford Loans, 1965–2013



Sources: U.S. Senate Budget Bulletin, August 4, 2006; http://www.finaid.org/loans/historicalrates.phtml Note: All federal loans were subsidized until 1992, when unsubsidized loans became available.

Figure 11 CDF of family income, All and Stafford borrowers by year, in thousands of constant 2012 dollars Sources: NPSAS, respective years All calculations use sample weights. Solid lines include all graduates; dashed lines include ONLY students who took out a Stafford loan their senior year.

Figure 12

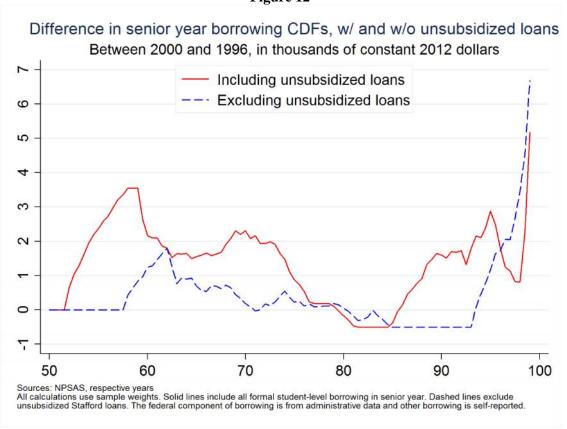
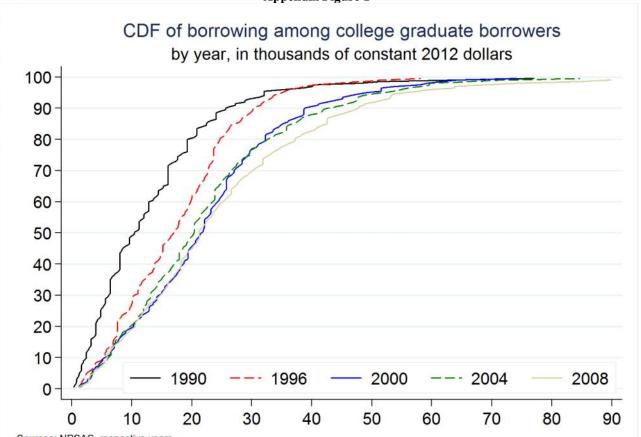


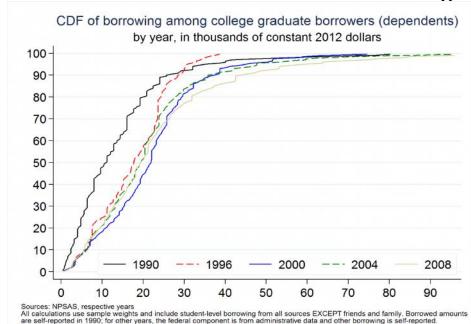
Figure 13 CDF of college graduate borrowing, federal loans by year, in thousands of constant 2012 dollars Sources: NPSAS, respective years All calculations use sample weights. Solid lines include student-level borrowing from federal loans only. Dashed lines include student-level borrowing as in Figure 1. Borrowed amounts are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

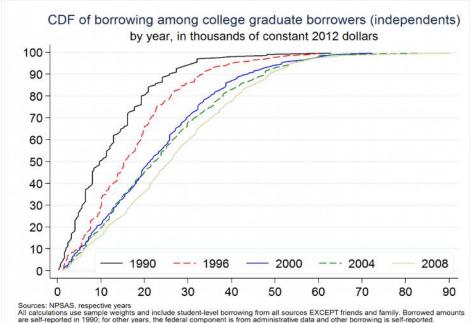
Appendix Figure 1

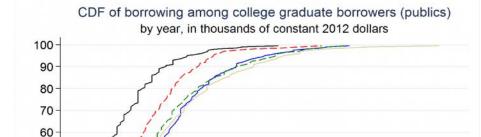


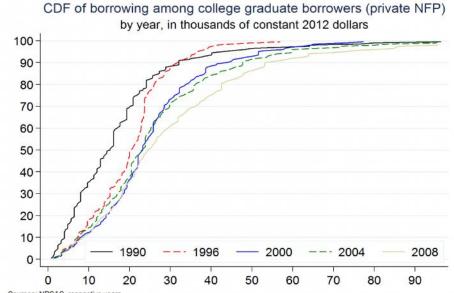
Sources: NPSAS, respective years
All calculations use sample weights and include student-level borrowing from all sources EXCEPT friends and family. Borrowed amounts are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

Appendix Figure 2





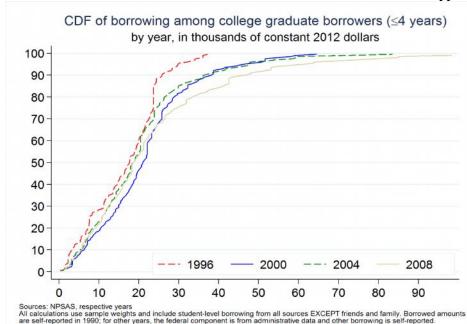


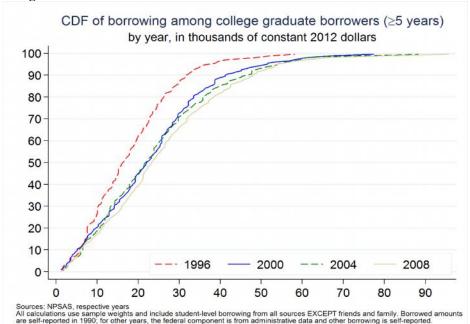


Sources: NPSAS, respective years All calculations use sample weights and include student-level borrowing from all sources EXCEPT friends and family. Borrowed amounts are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

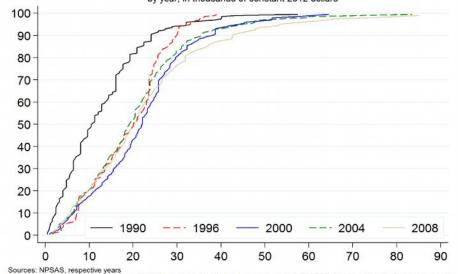
Sources: NPSAS, respective years All calculations use sample weights and include student-level borrowing from all sources EXCEPT friends and family. Borrowed amounts are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

Appendix Figure 3



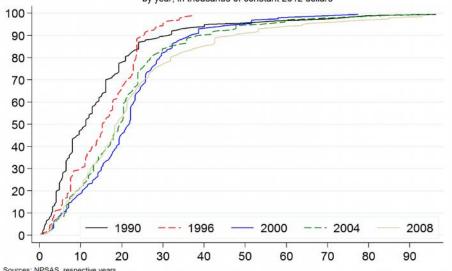






Sources: NPSAS, respective years
All calculations use sample weights and include student-level borrowing from all sources EXCEPT friends and family. Borrowed amounts
are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.

CDF of borrowing among college graduate borrowers (dependents, top income hal by year, in thousands of constant 2012 dollars



Sources: NPSAS, respective years
All calculations use sample weights and include student-level borrowing from all sources EXCEPT friends and family. Borrowed amounts
are self-reported in 1990; for other years, the federal component is from administrative data and other borrowing is self-reported.