Performance-Based Scholarships: What Have We Learned?

Interim Findings from the PBS Demonstration

Supplemental Tables

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The Performance-Based Scholarship Demonstration Supplementary Table 1

Year 1 Academic Outcomes Among Sample Members

	Sample	Program	Control	P	ercentage
Program	Size	Group	Group	Difference	Change
Registered in second program term (%) ^a					
Opening Doors Louisiana	537	57.1	38.9	18.1 ***	46.6
Arizona	1,028	78.6	74.0	4.6 *	6.2
California ^b	4,642	87.6	83.9	3.8 ***	4.5
Florida	1,075	78.6	77.1	1.6	2.0
New Mexico	1,081	91.6	91.2	0.4	0.5
New York	1,502	78.1	76.6	1.6	2.0
Ohio	2,285	79.5	79.1	0.4	0.5
Credits earned as of one year after random assignment	t				
Opening Doors Louisiana	537	11.0	7.7	3.3 ***	43.7
Arizona	1,028	16.1	14.3	1.7 **	12.2
Florida	1,075	14.9	13.9	1.0	7.3
New Mexico	1,081	25.7	24.8	0.9	3.7
New York	1,502	16.3	15.5	0.9 *	5.6
Ohio	2,285	15.6	13.9	1.7 ***	12.1
Met academic benchmark in first program term (%)					
Opening Doors Louisiana	537	43.7	29.5	14.2 ***	48.2
Arizona	1,028	37.9	29.4	8.5 ***	28.9
Florida	1,075	56.9	47.8	9.1 ***	19.0
New Mexico	1,081	80.2	78.5	1.7	2.2
New York	1,502	71.4	70.5	0.9	1.3
Ohio	2,285	33.2	26.3	7.0 ***	26.4
Met academic benchmark in second program term (%) ^d				
Opening Doors Louisiana	537	32.5	17.3	15.2 ***	87.8
Arizona	1,028	28.3	16.9	11.4 ***	67.6
Florida	1,075	39.5	34.9	4.6	13.1
New Mexico	1,081	49.8	32.3	17.6 ***	54.4
New York	1,502	57.4	56.8	0.6	1.1
Ohio	2,285	28.8	18.3	10.5 ***	57.5

Supplementary Table 1 (continued)

SOURCES: MDRC calculations using transcript data from the National Student Clearinghouse, Delgado Community College, Louisiana Technical College, Pima Community College, Hillsborough Community College, the University of New Mexico, Borough of Manhattan Community College, Hostos Community College, and the Ohio Board of Regents.

NOTES: A two-tailed t-test was applied to differences between research groups. Statistical significance levels are indicated as: *** = 1 percent; ** = 5 percent; * = 10 percent.

Rounding may cause slight discrepancies in sums and differences.

Estimates for all sites, excluding California, are adjusted by research cohort and campus. For California, estimates are adjusted by research cohort and workshop region.

Only the first two cohorts are shown for Opening Doors Louisiana.

^aRepresents the second term during which program group students were eligible for a scholarship.

^bRepresents data pulled from the National Student Clearinghouse. Data were not found for 305 students (6.6 percent of the sample).

°Due to the timing of scholarship-eligible terms and data limitations, some of these measures are proxies. For Louisiana, this represents the proportion of students who earned 6 or more credits with a "C" or better overall in their first term (depending on the cohort, this could be a fall, spring, or summer term). For Arizona, this represents the proportion of students who earned 12 or more credits with a "C" or better in their first term (depending on the cohort, this could be a fall or spring term). For Florida, this represents the proportion of students who earned a "C" or better in MAT 0024/0028 in their first term (depending on the cohort, this could be a fall or spring term; if a spring term, this includes students who earned the award over the summer). For New Mexico, this represents the proportion of students who earned 12 or more credits with a "C" or better overall in their first term (a fall term), and includes students who earned 6 or more credits with a "C" or better in their first term (depending on the cohort, this could be a fall or spring term). For Ohio, this represents the proportion of students who earned 12 or more credits in their first term (depending on the cohort, this could be a fall, winter, or spring term).

dDue to the timing of scholarship-eligible terms and data limitations, some of these measures are proxies. For Louisiana, this represents the proportion of students who earned 6 or more credits with a "C" or better overall in their second term (depending on the cohort, this could be a fall, spring, or summer term). For Arizona, this represents the proportion of students who earned 12 or more credits with a "C" or better in their second term (depending on the cohort, this could be a fall or spring term). For Florida, this represents the proportion of students who earned a "C" or better in MAT 0024/0028 or MAT 1033 in their second term (depending on the cohort, this could be a fall or spring term; if a spring term, this includes students who earned the award over the summer). For New Mexico, this represents the proportion of students who earned 15 or more credits with a "C" or better overall in their second term (a spring term), and does not include students who earned the award over the summer. For New York, this represents the proportion of students who earned 6 or more credits with a "C" or better in their second term (depending on the cohort, this could be a fall or spring term). For Ohio, this represents the proportion of students who earned 12 or more credits in their second term (depending on the cohort, this could be a fall, winter, or spring term).

The Performance-Based Scholarship Demonstration Supplementary Table 2

Year 2 Academic Outcomes Among Sample Members

	Sample	Program	Control		Percentage
Program	Size	Group	Group	Difference	Change
Registered at the beginning of second year (%)					
Opening Doors Louisiana	537	30.1	22.9	7.2 **	31.6
California ^a	4,642	81.4	79.0	2.4 *	3.0
New Mexico	1,081	77.6	78.5	-0.9	-1.2
New York	1,502	61.9	60.7	1.2	2.0
Ohio	2,285	63.2	61.6	1.6	2.5
Credits earned as of two years after random assignme	e <u>nt</u>				
Opening Doors Louisiana	537	13.7	10.0	3.7 ***	36.9
New Mexico	1,081	46.5	44.3	2.2 *	5.1
New York	1,502	26.7	25.6	1.1	4.3
Ohio	2,285	24.8	22.4	2.4 ***	10.6
Met academic benchmark in third term (%) ^b					
Opening Doors Louisiana	537	14.7	11.1	3.6	32.3
New Mexico	1,081	50.7	32.3	18.4 ***	57.1
New York	1,502	44.0	44.2	-0.2	-0.4
Ohio	2,285	16.1	13.8	2.3	16.5
Met academic benchmark in fourth term (%) ^c					
Opening Doors Louisiana	537	4.9	5.2	-0.3	-5.2
New Mexico	1,081	42.4	30.3	12.1 ***	39.9
New York	1,502	33.4	34.1	-0.7	-1.9
Ohio	2,285	14.6	10.8	3.8 ***	35.7

Supplementary Table 2 (continued)

SOURCES: MDRC calculations using transcript data from the National Student Clearinghouse, Delgado Community College, Louisiana Technical College, the University of New Mexico, Borough of Manhattan Community College, Hostos Community College, and the Ohio Board of Regents.

NOTES: A two-tailed t-test was applied to differences between research groups. Statistical significance levels are indicated as: *** = 1 percent; ** = 5 percent; * = 10 percent.

Rounding may cause slight discrepancies in sums and differences.

Estimates for all sites, excluding California, are adjusted by research cohort and campus. For California, estimates are adjusted by research cohort and workshop region.

Only the first two cohorts are shown for Opening Doors Louisiana.

^aRepresents data pulled from the National Student Clearinghouse. Data were not found for 305 students (6.6 percent of the sample).

bDue to the timing of scholarship-eligible terms and data limitations, some of these measures are proxies. For Louisiana, this represents the proportion of students who earned 6 or more credits with a "C" or better overall in the first term of their second year (depending on the cohort, this could be a fall, spring, or summer term). Program group students were no longer eligible for a performance-based scholarship during this time. For New Mexico, this represents the proportion of students who earned 15 or more credits with a "C" or better overall in the first term of their second year (a fall term), and includes students who earned the award over the winter intersession. Program group students were still eligible for a performance-based scholarship during this time. For New York, this represents the proportion of students who earned 6 or more credits with a "C" or better in the first term of their second year (depending on the cohort, this could be a fall or spring term). Program group students were no longer eligible for a performance-based scholarship during this time. For Ohio, this represents the proportion of students who earned 12 or more credits in the first term of their second year (depending on the cohort, this could be a fall, winter, or spring term). Program group students were no longer eligible for a performance-based scholarship during this time.

°Due to the timing of scholarship-eligible terms and data limitations, some of these measures are proxies. For Louisiana, this represents the proportion of students who earned 6 or more credits with a "C" or better overall in the second term of their second year (depending on the cohort, this could be a fall, spring, or summer term). Program group students were no longer eligible for a performance-based scholarship during this time. For New Mexico, this represents the proportion of students who earned 15 or more credits with a "C" or better overall in their second term of their second year (a spring term), and does not include students who earned the award over the summer. Program group students were still eligible for a performance-based scholarship during this time. For New York, this represents the proportion of students who earned 6 or more credits with a "C" or better in the second term of their second year (depending on the cohort, this could be a fall or spring term). Program group students were no longer eligible for a performance-based scholarship during this time. For Ohio, this represents the proportion of students who earned 12 or more credits in the second term of their second year (depending on the cohort, this could be a fall, winter, or spring term). Program group students were no longer eligible for a performance-based scholarship during this time.

The Performance-Based Scholarship Demonstration Supplementary Table 3

Credits Earned as of the End of the First Year at Five Sites, by Subgroup

				, ,		
Subgroup	Sample Size	Program Group	Control Group	Difference	Standard Error	Difference Between Subgroups
<u>Gender</u>						†
Male Female	2,588 4,383	17.5 17.2	15.7 16.2	1.8 *** 1.0 ***	0.4 0.3	
Sample size	6,971					
<u>Hispanic</u>						
Yes No	2,845 4,033	17.9 16.9	16.8 15.4	1.1 *** 1.5 ***	0.4 0.3	
Sample size	6,878					
<u>Parent</u>						
Yes No	3,721 3,212	15.5 19.4	14.1 18.3	1.4 *** 1.1 ***	0.3 0.3	
Sample size	6,933					
Younger than 20 years old						
Yes No	1,826 5,145	21.6 15.8	20.6 14.4	1.0 ** 1.4 ***	0.5 0.3	
Sample size	6,971					
First in family to attend college						
Yes No	2,211 4,574	16.9 17.5	15.3 16.5	1.6 *** 1.0 ***	0.4 0.3	
Sample size	6,785					
Employed at the beginning of the progra	<u>m</u>					
Yes No	3,424 3,413	17.2 17.5	15.9 16.2	1.3 *** 1.3 ***	0.3 0.4	
Sample size	6,837					
In a program with a services component	a -					
Yes No	3,184 3,787	19.0 15.9	17.7 14.6	1.2 *** 1.4 ***	0.4 0.3	
Sample size	6,971					(continued)

Supplementary Table 3 (continued)

SOURCES: MDRC calculations using Baseline Information Form (BIF) data and transcript data from Pima Community College, Hillsborough Community College, the University of New Mexico, Borough of Manhattan Community College, Hostos Community College, and the Ohio Board of Regents.

NOTES: A two-tailed t-test was applied to differences between research groups. Statistical significance levels are indicated as: *** = 1 percent; ** = 5 percent; * = 10 percent.

A two-tailed t-test was applied to differences in impacts between subgroups. Statistical significance levels are

indicated as: $\dagger\dagger\dagger$ = 1 percent; $\dagger\dagger$ = 5 percent; \dagger = 10 percent.

Rounding may cause slight discrepancies in sums and differences.

Estimates are adjusted by research cohort and campus.

^aThe programs with service components, such as advising or tutoring, were located in Arizona, Florida, and New Mexico.

The Performance-Based Scholarship Demonstration
Supplementary Table 4
Percentage Registered at the Beginning of the Second Year at Six Sites, by Subgroup

Subgroup	Sample Size	Program Group	Control Group	Difference	Standard Error	Difference Between Subgroups
<u>Gender</u>						
Male Female	3,956 6,903	71.3 72.0	68.5 71.2	2.8 * 0.8	1.5 1.1	
Sample size	10,859					
<u>Hispanic</u>						
Yes No	5,170 5,562	74.3 69.4	71.7 68.9	2.6 ** 0.5	1.3 1.3	
Sample size	10,732					
Parent ^a						
Yes No	3,484 2,701	61.4 68.6	60.8 68.0	0.6 0.5	1.7 1.8	
Sample size	6,185					
Younger than 20 years old						
Yes No	6,173 4,687	79.3 61.7	77.5 60.8	1.9 * 0.9	1.1 1.4	
Sample size	10,860					
First in family to attend college						
Yes No	4,442 6,215	72.8 71.0	70.5 70.3	2.3 * 0.8	1.4 1.2	
Sample size	10,657					
Employed at the beginning of the pro-	ogram ^a					
Yes No	3,100 3,003	65.8 63.7	65.5 62.3	0.4 1.4	1.7 1.8	
Sample size	6,103					
In a program with a services compo	<u>ient^b</u>					
Yes No	2,431 8,429	67.7 72.9	67.7 71.0	0.0 1.9 *	1.9 1.0	
Sample size	10,860					(continued)

Supplementary Table 4 (continued)

SOURCES: MDRC calculations using Baseline Information Form (BIF) data and transcript data from the National Student Clearinghouse, Pima Community College, Hillsborough Community College, the University of New Mexico, Borough of Manhattan Community College, Hostos Community College, and the Ohio Board of Regents.

NOTES: A two-tailed t-test was applied to differences between research groups. Statistical significance levels are indicated as: *** = 1 percent; ** = 5 percent; * = 10 percent.

A two-tailed t-test was applied to differences in impacts between subgroups. Statistical significance levels are

A two-tailed t-test was applied to differences in impacts between subgroups. Statistical significance levels are indicated as: $\dagger \dagger \dagger = 1$ percent; $\dagger = 10$ percent.

Rounding may cause slight discrepancies in sums and differences.

Estimates for all sites, excluding California, are adjusted by research cohort and campus. For California, estimates are adjusted by research cohort and workshop region.

Results shown include the first two of three cohorts in Arizona and Florida.

^aData on parental status and employment were not collected for California students.

^bThe programs with service components, such as advising or tutoring, were located in Arizona, Florida, and New Mexico.

The Performance-Based Scholarship Demonstration **Supplementary Table 5**

Year 1 Financial Aid Outcomes

	Sample	Program	Control	Po	ercentage
Program	Size	Group	Group D	ifference	Change
Total financial aid received (\$)					
New Mexico	1,081	11,098	10,167	932 ***	9.2
New York	1,502	8,048	5,839	2,209 ***	37.8
Ohio	2,285	7,947	7,445	502 ***	6.7
Total performance-based scholarship received (\$)					
New Mexico	1,081	1,440	0	1,440 ***	-
New York	1,502	2,050	0	2,050 ***	-
Ohio	2,285	765	0	765 ***	-
Total loans received (\$)					
New Mexico	1,081	1,179	1,525	-347 **	-22.7
New York	1,502	1,042	1,033	10	0.9
Ohio	2,285	2,853	3,187	-334 ***	-10.5

SOURCES: MDRC calculations using financial aid data from the CUNY Institutional Research Database, the University of New Mexico, Lorain County Community College, Owens Community College, and Sinclair Community College.

NOTES: A two-tailed t-test was applied to differences between the research groups. Statistical significance levels are indicated as: *** = 1 percent; ** = 5 percent; and * = 10 percent.

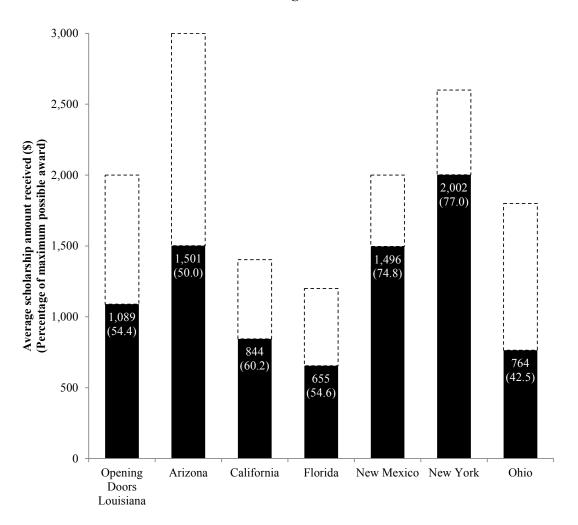
Rounding may cause slight discrepancies in sums and differences.

Estimates are adjusted by research cohort and campus.

The financial aid outcomes for the New York study represent financial aid awarded, which is distinct from financial aid received. The financial aid outcomes for the New Mexico and Ohio studies represent financial aid received.

The Performance-Based Scholarship Demonstration Supplementary Figure 1

Average Scholarship Amount Received Among Program Group Members, by Site: First Two Program Terms



Supplementary Figure 1 (continued)

SOURCES: MDRC calculations using scholarship payment data from Delgado Community College, Louisiana Technical College, Pima Community College, the California Student Aid Commission, Hillsborough Community College, Lorain County Community College, Owens Community College, Sinclair Community College, the University of New Mexico, Borough of Manhattan Community College, and Hostos Community College.

NOTES: Dotted lines above the bars represent the maximum amount of money for which students were eligible over the first year of the program.

Results for California exclude scholarship type 1, which is not performance-based. The dotted line representing the maximum amount available is the average scholarship amount for which students were eligible across all scholarship types, excluding type 1.

Results for Florida include a fall and spring term, plus an additional summer term during which students could earn a scholarship. For the last cohort, fall 2011, the summer-term scholarship amounts may change slightly when additional data are processed.

About MDRC

MDRC is a nonprofit, nonpartisan social and education policy research organization dedicated to learning what works to improve the well-being of low-income people. Through its research and the active communication of its findings, MDRC seeks to enhance the effectiveness of social and education policies and programs.

Founded in 1974 and located in New York City and Oakland, California, MDRC is best known for mounting rigorous, large-scale, real-world tests of new and existing policies and programs. Its projects are a mix of demonstrations (field tests of promising new program approaches) and evaluations of ongoing government and community initiatives. MDRC's staff bring an unusual combination of research and organizational experience to their work, providing expertise on the latest in qualitative and quantitative methods and on program design, development, implementation, and management. MDRC seeks to learn not just whether a program is effective but also how and why the program's effects occur. In addition, it tries to place each project's findings in the broader context of related research — in order to build knowledge about what works across the social and education policy fields. MDRC's findings, lessons, and best practices are proactively shared with a broad audience in the policy and practitioner community as well as with the general public and the media.

Over the years, MDRC has brought its unique approach to an ever-growing range of policy areas and target populations. Once known primarily for evaluations of state welfare-to-work programs, today MDRC is also studying public school reforms, employment programs for ex-offenders and people with disabilities, and programs to help low-income students succeed in college. MDRC's projects are organized into five areas:

- Promoting Family Well-Being and Children's Development
- Improving Public Education
- Raising Academic Achievement and Persistence in College
- Supporting Low-Wage Workers and Communities
- Overcoming Barriers to Employment

Working in almost every state, all of the nation's largest cities, and Canada and the United Kingdom, MDRC conducts its projects in partnership with national, state, and local governments, public school systems, community organizations, and numerous private philanthropies.