

# THE LRP DATA BOOK

## Extramural Loan Repayment Programs



**Fiscal Year 2006 Highlights**

**Application Cycle:**  
**September 1-December 1, 2005**

\*Fiscal Year period covers October 1, 2005 to September 30, 2006

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## The Year in Review

In Fiscal Year (FY) 2006, 3,200 individuals applied to the five Extramural Loan Repayment Programs (LRPs): Clinical Research, Pediatric Research, Health Disparities Research, Clinical Research for Individuals from Disadvantaged Backgrounds, and Contraception and Infertility Research. Of those applicants, 1,651 were awarded contracts totaling \$70,806,489. The combined (new and renewal applicants) success rate for the Extramural LRPs was 52 percent.

The Extramural Clinical Research LRP received 57 percent (1,821) of all applications.

New applicants (those not previously funded) constituted 60 percent of all applications while renewal applicants (those previously funded) comprised 40 percent of all applicants. Success rates for new and renewal applicants were 40 and 70 percent, respectively.

The LRPs are open to health professionals with doctoral level degrees with varying levels of experience. Many of FY 2006 awardees are beginning their careers, with 43 percent having received their post-graduate degrees within the last 5 years, and 86 percent within the past 10 years.

MDs (including those with MD/PhD degrees) comprised 54 percent of the 1,651 awardees, while those with PhDs or other doctoral level degree comprised 46 percent of the total awards.

Forty-six percent of the 1,651 awardees had educational debt greater than \$50,000 with approximately three percent having debt levels greater than \$200,000.

Women received 52 percent (851) of the LRP awards. Minorities, including Asian/Pacific Islanders, African-Americans, Hispanics, and Native Americans, were recipients of 26 percent (427) of the awards.

## The Five Extramural Loan Repayment Programs

**The NIH LRPs are a vital component of our nation's efforts to attract health professionals to careers in clinical, pediatric, health disparities, or contraception and infertility research.**

### Clinical Research LRP:

Clinical research is "patient-oriented clinical research conducted with human subjects, or research on the causes and consequences of disease in human populations involving material of human origin (such as tissue specimens and cognitive phenomena) for which an investigator or colleague directly interacts with human subjects in an outpatient or inpatient setting to clarify a problem in human physiology, pathophysiology or disease, or epidemiologic or behavioral studies, outcomes research or health services research, or developing new technologies, therapeutic interventions, or clinical trials."

### Pediatric Research LRP:

Qualified Pediatric Research is defined as "research directly related to diseases, disorders, and other conditions in children."

### Health Disparities Research LRP:

The scope of research qualified for this program includes basic research, clinical research or behavioral research directly related to health disparity populations and the medically underserved. Group is defined as a health disparity population "if there is a significant disparity in the overall rate of disease incidence, prevalence, morbidity, mortality, or survival rates in the population as compared to the health status of the general population."

### Clinical Research for Individuals from Disadvantaged Backgrounds (Clinical Research-DB) LRP:

For this program, "an individual from a disadvantaged background" is defined according to low family income levels set by the U.S. Bureau of the Census – as published in the Federal Register.

To meet this low-income requirement candidates must demonstrate their disadvantaged status by submitting (1) a written statement from former school(s) where he/she qualified for Federal disadvantaged assistance, (2) verification of receipt of loans from either the Health Professions Student Loans (HPSL) or Loans for Disadvantaged Student Program, or (3) verification of a scholarship from the U.S. Department of Health and Human Services under the Scholarship for Individuals with Exceptional Financial Need.

### Contraception & Infertility Research LRP:






Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy. Infertility research is defined as research whose long-range objective is to evaluate, treat, or ameliorate conditions which result in the failure of couples to either conceive or bear young.

## Applications, Awards, and Success Rates by Program (New & Renewal)

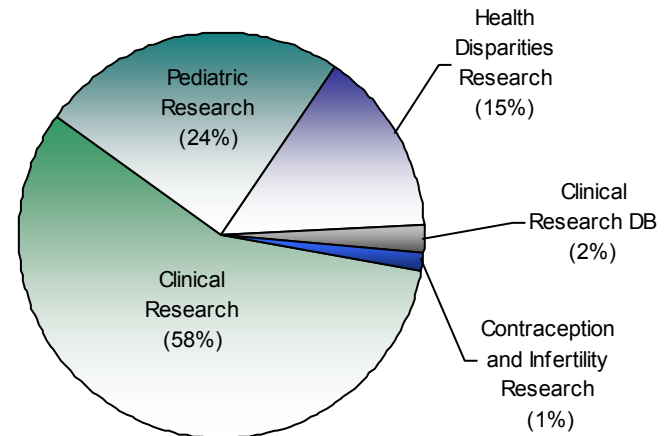
In FY 2006, the NIH received 3,200 applications to the Extramural LRPs.  
60 percent of the applications were from New Applicants.  
52 percent of all applicants were awarded contracts.

LRP	New			Renewal			Total		
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Applications	Awards	Success Rate
Clinical Research	1,044	396	38%	777	549	71%	1,821	945	52%
Pediatric Research	501	192	38%	300	211	70%	801	403	50%
Health Disparities Research	314	143	46%	164	102	62%	478	245	51%
Clinical Research DB	28	13	46%	33	23	70%	61	36	59%
Contraception and Infertility Research	29	14	48%	10	8	80%	39	22	56%
<b>Total:</b>	<b>1,916</b>	<b>758</b>	<b>40%</b>	<b>1,284</b>	<b>893</b>	<b>70%</b>	<b>3,200</b>	<b>1,651</b>	<b>52%</b>

## Funding by Program (New & Renewal Awardees)

	396	\$23,546,961	549	\$16,197,777	945	\$39,744,738
	192	\$12,399,756	211	\$6,436,084	403	\$18,835,840
	143	\$7,021,022	102	\$2,837,004	245	\$9,858,026
	13	\$812,695	23	\$551,563	36	\$1,364,258
	14	\$681,081	8	\$322,546	22	\$1,003,627

The Clinical Research LRP funded the largest number of awards in FY 2006.



## Funding by NIH Institutes & Centers (ICs) (New & Renewal Awardees)

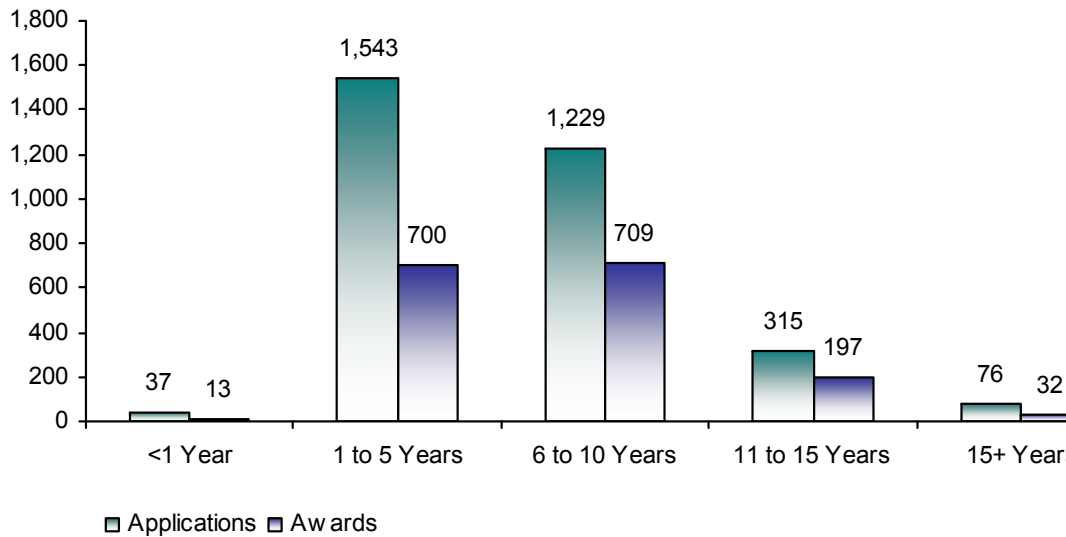
IC	Awards	Funding
NCMHD	281	\$11,222,285
NHLBI	194	\$10,783,656
NCI	180	\$8,154,279
NIAID	144	\$5,670,473
NICHD	115	\$5,331,924
NIMH	154	\$4,967,535
NIDDK	72	\$3,987,952
NIDA	97	\$3,454,005
NCRR	58	\$2,796,737
NINDS	61	\$2,594,149
NIA	65	\$2,489,607
NIAMS	40	\$1,798,176
NEI	40	\$1,601,698
NIAAA	46	\$1,558,523
NIDCD	34	\$1,103,073
NIGMS	12	\$720,525

IC	Awards	Funding
NIDCR	15	\$690,990
NIEHS	16	\$455,029
NCCAM	9	\$437,749
NLM	6	\$421,789
NHGRI	6	\$259,138
NIBIB	2	\$147,556
FIC	1	\$103,138
NINR	3	\$56,503
<b>Total</b>	<b>1,651</b>	<b>\$70,806,489</b>

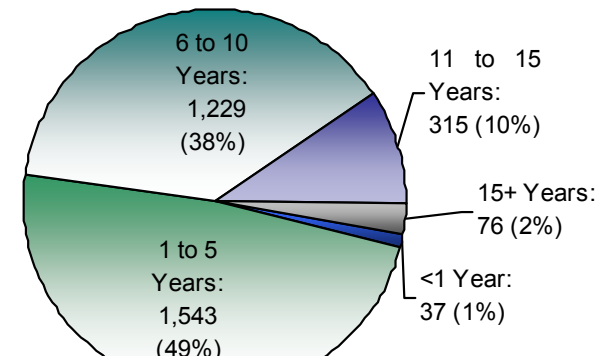
24 Institutes & Centers funded at least one LRP contract in FY 2006.

## Applications, Awards, and Success Rates By Post-Degree Years

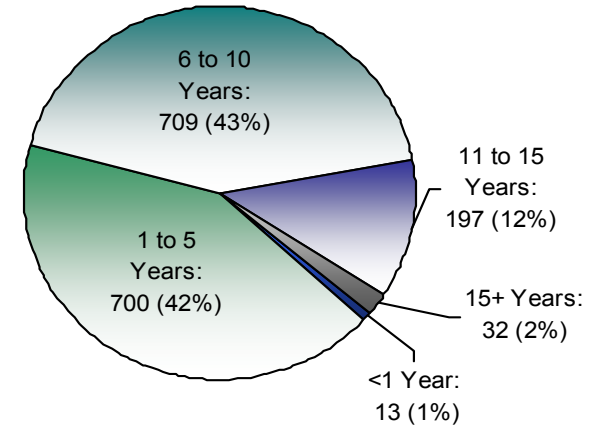
The majority of FY 2006 applicants and awardees were early in their careers, with most having received their doctoral degrees within the past 5 years.



**Distribution of Applications**



**Distribution of Awards**





## LRP Awards by Doctoral Degree

**MD:** 748 (45%) of the 1,651 awardees held MD degrees

**PhD:** 679 (41%) of the 1,651 awardees held PhD Degrees

**MD/PhD:** 140 (9%) of the 1,651 awardees held MD/PhD degrees

**Other:** 84 (5%) of the 1,651 awardees held various other doctoral level degrees including ScD, PharmD, DrPH, DDS, OD, DO, JD, DMD, DDS, DVM, PsyD, EdD, DNSc, DPT

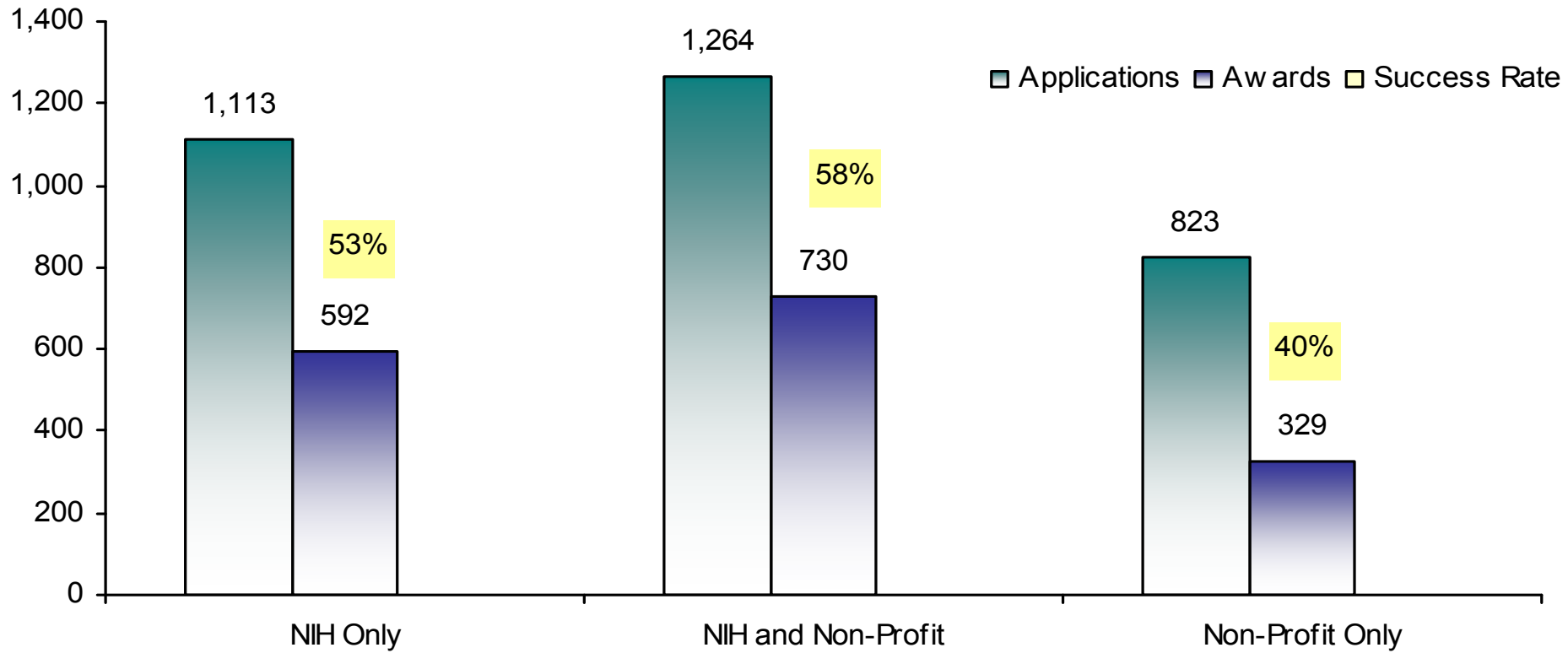
LRP	MD	MD/PhD	PhD	Other	Total
Clinical Research	457	77	365	46	945
Pediatric Research	207	56	118	22	403
Health Disparities Research	51	4	177	13	245
Clinical Research DB	24	1	9	2	36
Contraception and Infertility Research	9	2	10	1	22
<b>Total:</b>	<b>748</b>	<b>140</b>	<b>679</b>	<b>84</b>	<b>1,651</b>

## Applications, Awards, and Success Rates by Degree Type

LRP	MD			MD/PhD			PhD			Other*		
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Applications	Awards	Success Rate
Clinical Research	875	457	52%	121	77	64%	709	365	51%	116	46	40%
Pediatric Research	413	207	50%	74	56	76%	265	118	45%	49	22	45%
Health Disparities Research	94	51	54%	8	4	50%	326	177	54%	50	13	26%
Clinical Research DB	41	24	59%	2	1	50%	14	9	64%	4	2	50%
Contraception and Infertility Research	15	9	60%	2	2	100%	19	10	53%	3	1	33%
<b>Total:</b>	<b>1,438</b>	<b>748</b>	<b>52%</b>	<b>207</b>	<b>140</b>	<b>68%</b>	<b>1,333</b>	<b>679</b>	<b>51%</b>	<b>222</b>	<b>84</b>	<b>38%</b>

\* Other includes ScD, PharmD, DrPH, DDS, OD, DO, JD, DMD, DDS, DVM, PsyD, EdD, DNSc, DPT

## Applications, Awards, and Success Rates By Source of Research Funding

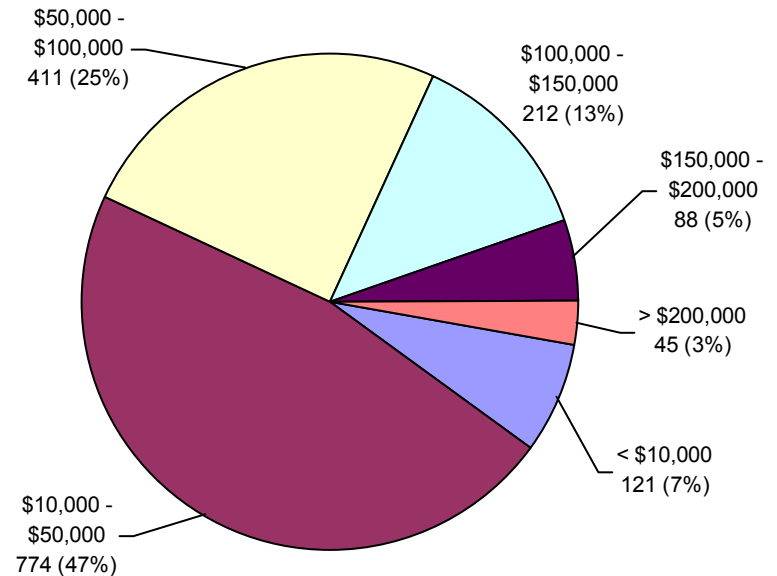


## Educational Debt Levels for LRP Awardees

46 percent of FY 2006 awardees had educational debt levels in excess of \$50,000.

Debt Range	# of Awardees
Less than \$10,000	121
\$10,000 - \$50,000	774
\$50,000 - \$100,000	411
\$100,000 - \$150,000	212
\$150,000 - \$200,000	88
\$200,000 and over	45
<b>Total</b>	<b>1,651</b>

**Distribution of Awards by Debt Level**



## Applications, Awards, and Success Rates by Gender

Women received a slightly higher overall share of FY 2006 LRP awards.

LRP	Male Applicants			Female Applicants			Gender Distribution	
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	% Male Awardees	% Female Awardees
Clinical Research	919	504	55%	869	441	51%	53%	47%
Pediatric Research	349	191	55%	445	212	48%	47%	53%
Health Disparities Research	141	80	57%	333	165	50%	33%	67%
Clinical Research DB	20	14	70%	41	22	54%	39%	61%
Contraception & Infertility Research	14	11	79%	25	11	44%	50%	50%
<b>Total</b>	<b>1,443*</b>	<b>800</b>	<b>55%</b>	<b>1,713*</b>	<b>851</b>	<b>50%</b>	<b>48%</b>	<b>52%</b>

\* Does not include 44 applicants that did not specify a gender.

## Recipient Demographics

Minority groups received 26 percent of all FY 2006 awards.

LRP	Minority Awards		
	Total Awards	Minority Awards	% of Awards to Minorities
Clinical Research	945	190	20%
Pediatric Research	403	67	17%
Health Disparities Research	245	142	58%
Clinical Research DB	36	23	64%
Contraception & Infertility Research	22	5	23%
<b>Total</b>	<b>1,651*</b>	<b>427</b>	<b>26%</b>

### Breakdown of Minority Groups by Race

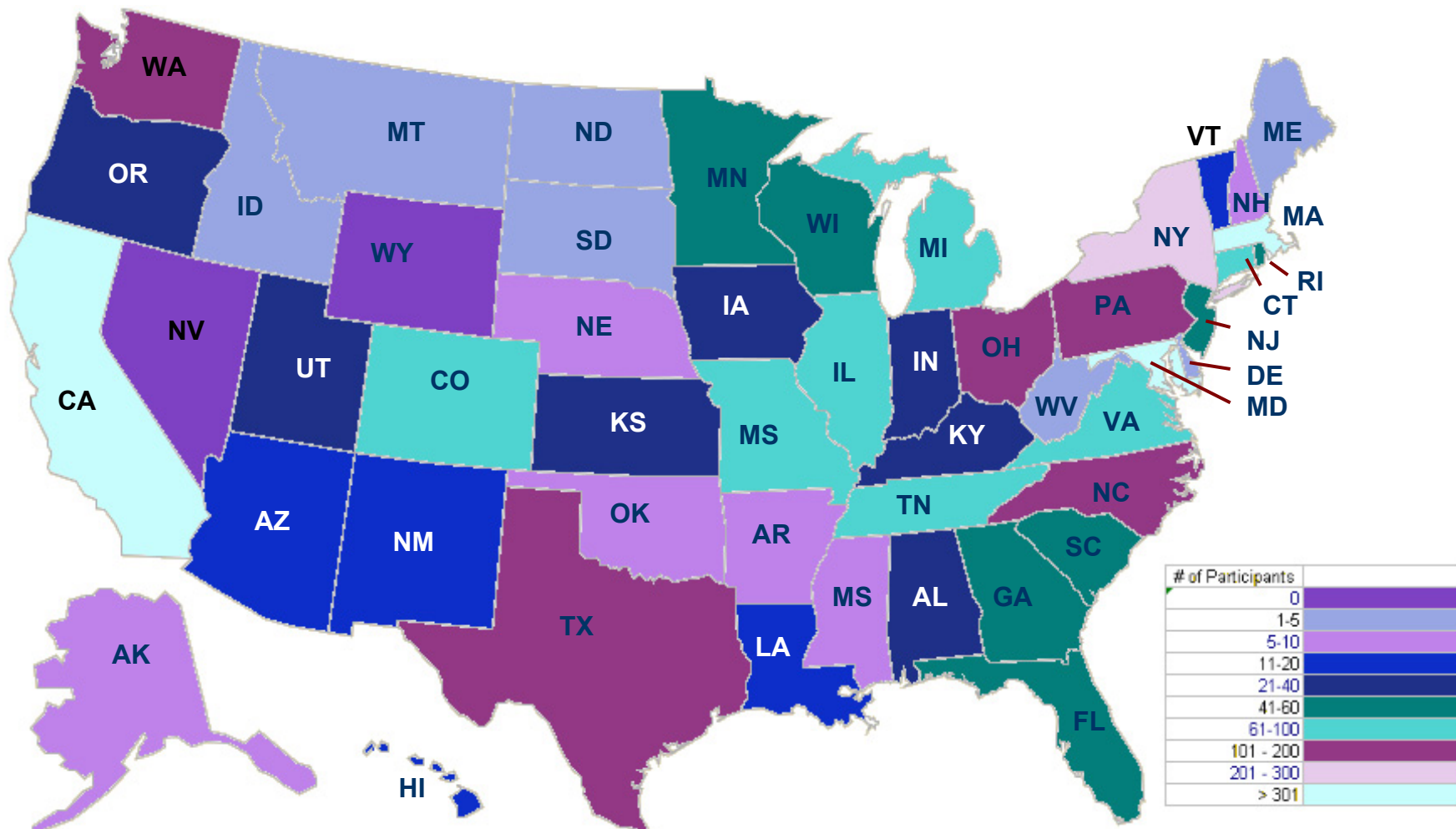
Minority Categories	Total Participants	% of All Minorities
Asian/Pacific Islander	184	43%
African-American	139	33%
Hispanic	90	21%
Native American	14	3%
<b>Total Minorities</b>	<b>427</b>	<b>100%</b>

\*Includes 133 awardees that did not specify a race.

## Applications, Awards, and Success Rates by Minority

Minority Category	Applications	Awards	Success Rate
Asian/Pacific Islander	347	188	54%
African American	325	141	43%
Caucasian	2091	1106	53%
Hispanic	201	90	45%
Native American	25	3	12%
Other	41	20	49%
No Response	229	117	51%
<b>Total*</b>	<b>3259</b>	<b>1665</b>	<b>51%</b>
* Applicants can select multiple minority categories therefore totals are more than overall number of applications submitted and awarded.			

## Number of Participants by State





# NIH Loan Repayment Programs

6011 Executive Boulevard, Suite 206

Bethesda, Maryland 20892-7650

Phone: 301.594.3234

Fax: 301.480.0364

Help Desk: 866.849.4047

Email: [lrp@nih.gov](mailto:lrp@nih.gov)

Web site: [www.lrp.nih.gov](http://www.lrp.nih.gov)