

11,947 Loans



PENNSYLVANIA
TREASURY
Earn. Learn. Invest.

7,216 Loans

nyserda
Energy. Innovation. Solutions.

3,446 Loans



1,166 Loans



119 Loans



Total Loan Volume: \$103,649,269



PENNSYLVANIA
TREASURY
Earn. Learn. Invest.

\$54,837,059

nyserda
Energy. Innovation. Solutions.

\$32,845,566



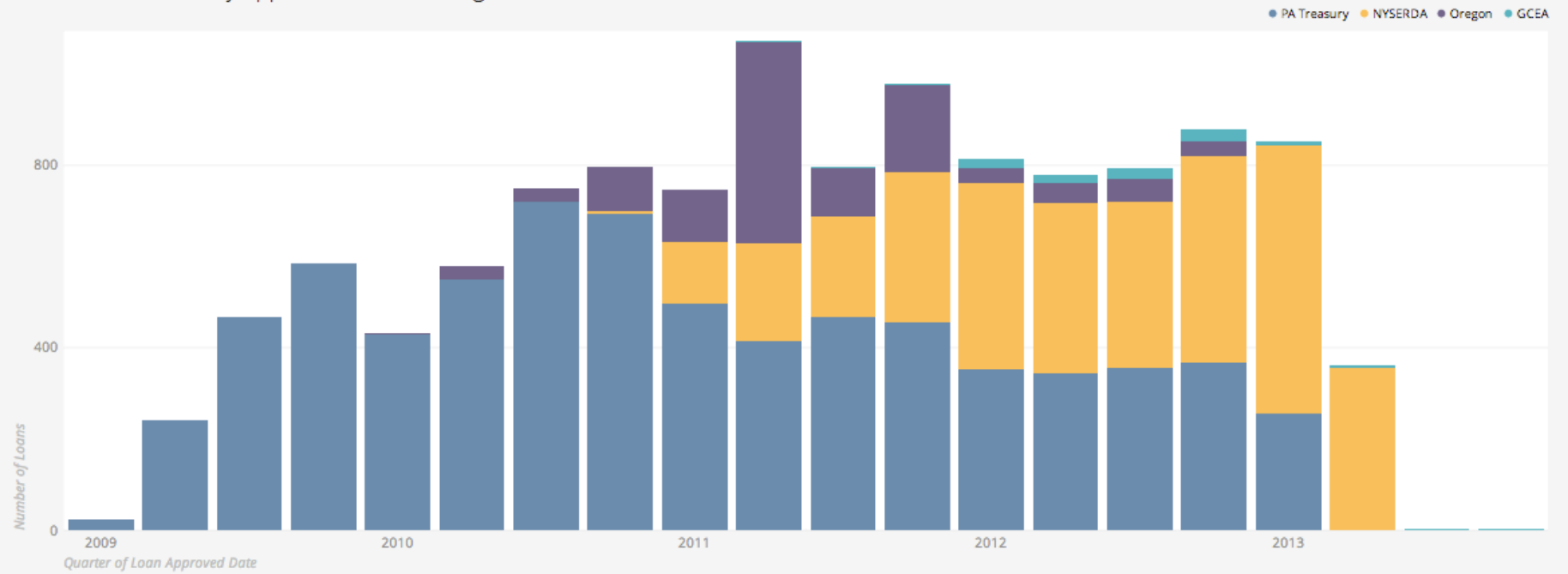
\$14,911,852



\$1,054,812



Number of Loans By Approval Date and Program



Investor Confidence Project Energy Efficiency Loan Data

mattee@gmail.com

Share

Combined dataset from energy efficiency loan programs collected by the Investor Confidence Project.

[Environmental Defense Fund](#) - Edited at 12:55 PM

File Edit Tools Help

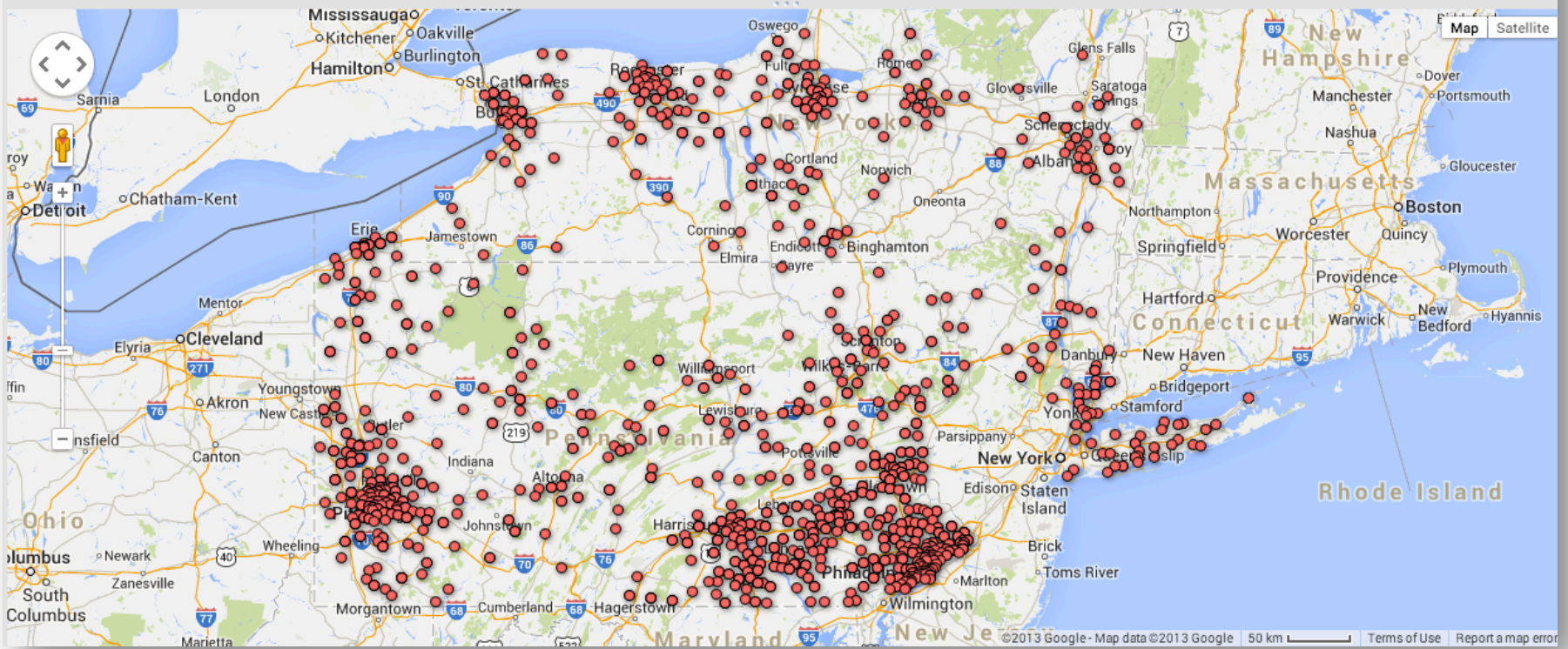
Raw Loan Data

Summary of Key Fields

Where Are These Loans?

Filter No filters applied

Saved 11,947 rows



Standard Loan Performance Data

Static Features

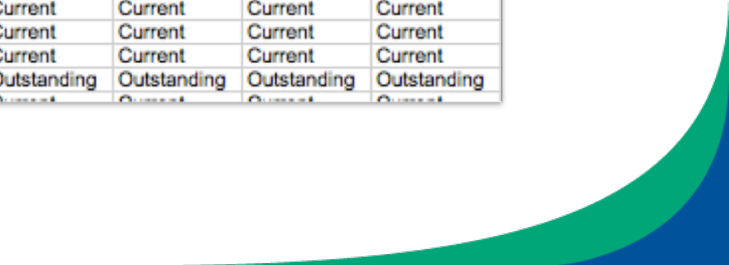
- Borrower Characteristics
- Loan Characteristics
- Project Characteristics

datasou	loanid	loanam	loanappr	loanint	loan	credit
Oregon	EP-11	17905	3/11/11	5.99	12	616
GCEA	W35PI	1200	8/7/12	6.99	12	816
Oregon	EP-11	18231	12/20/10	5.99	13	698
Oregon	EP-11	3157	3/24/11	5.99	24	805
GCEA	4FDE5	1769	3/20/12	3.99	24	812
GCEA	LNRA5	2980	11/1/12	6.99	24	689
Oregon	EP-12	3461	5/16/11	5.99	25	779
Oregon	EP-12	1310	5/2/11	5.99	26	728
Oregon	EP-12	2414	4/26/11	5.99	26	809
PA Treas	2284	3250	7/8/09	6.99	36	760
PA Treas	46340	4418	7/19/11	7.99	36	800
PA Treas	77547	6620	1/25/13	7.99	36	760
PA Treas	24532	6200	12/21/09	6.99	36	780
PA Treas	34601	1795	11/30/10	6.99	36	680
PA Treas	69008	7050	8/17/12	8.99	36	760
PA Treas	49894	4680	12/6/11	7.99	36	780
PA Treas	26480	2620	3/29/10	6.99	36	680
PA Treas	1878	2586	5/14/09	5.99	36	800
PA Treas	1839	5000	5/15/09	5.99	36	800
PA Treas	35500	4000	4/10/11	6.99	36	740

Dynamic Features

- Monthly payment history
- Outstanding Balance
- Loss mitigation

datasou	loanid	Jan-2009_pm	Feb-2009_pm	March-2009-F	April_2009-pn
Oregon	EP-11	Current	Current	Current	Current
GCEA	W35PI	Current	Current	Current	Current
Oregon	EP-11	Current	Current	Current	Current
Oregon	EP-11	Current	Current	Current	Current
GCEA	4FDE5	Current	Current	Current	Current
GCEA	LNRA5	Current	Current	Current	Current
Oregon	EP-12	Current	Current	Current	Current
Oregon	EP-12	Outstanding	Current	Outstanding	Outstanding
Oregon	EP-12	Current	Current	Current	Current
PA Treas	2284	Current	Current	Current	Current
PA Treas	46340	Current	Current	Current	Current
PA Treas	77547	Current	Outstanding	Current	Current
PA Treas	24532	Current	Current	Current	Current
PA Treas	34601	Current	Current	Current	Current
PA Treas	69008	Current	Current	Current	Current
PA Treas	49894	Current	Current	Current	Current
PA Treas	26480	Current	Current	Current	Current
PA Treas	1878	Current	Current	Current	Current
PA Treas	1839	Current	Current	Current	Current
PA Treas	35522	Current	Outstanding	Current	Current
PA Treas	9280	Current	Current	Current	Current
PA Treas	46760	Current	Current	Current	Current
PA Treas	39271	Current	Current	Current	Current
PA Treas	69019	Current	Current	Current	Current
PA Treas	46499	Current	Current	Current	Current
PA Treas	32049	Outstanding	Outstanding	Outstanding	Outstanding
PA Treas	36007	Current	Current	Current	Current



Combined Data Overview:

- Information About Borrower and Property
- Information About the Loan
- Limited Information on Payments
- Limited Information About the Project
- No Information About Energy Usage



Information About the Borrower and Property

Data Field	Oregon	NYSERDA	PA Treasury	GCEA
Credit Score	x	x	x	x
Zip	x	x	x	x
State	x	x	x	x
DTI		x	x	x
City	x	x		x
Borrowers Annual Income	x	x		x
County	x	x		x
Year Constructed	x		x	x
Floorspace	x		x	x
Building Type	x			x
Number of occupants	x		x	



Information About the Loan

Data Field	Oregon	NYSERDA	PA Treasury	GCEA
Loan Amount	X	X	X	X
Loan Interest Rate	X	X	X	X
Original Loan Term	X	X	X	X
Loan Approval Date	X	X	X	X
Current Principal Balance	X	X	X	
Loan Status	X	X	X	
Days Past Due	X	X	X	
Next Principal Due Date	X	X	X	
Next Interest Due Date	X	X	X	
Last Payment Date	X	X	X	
Last Payment Amount	X	X		
# Payments Made	X	X		
Loan Product	X			X
Open Date	X	X		
Charge Off Amount		X	X	
Regular Payment Due Amount		X	X	
Lender Name		X		X

Information About the Project

Data Field	Oregon	NYSERDA	PA Treasury	GCEA
Project Work Done	x		x	x
Total Invoiced Cost	x			x



Combined Dataset Summary Statistics

Data Field	Range	Median	Mean	# of Loans
Loan Amount	\$701-\$30,000	\$7,500	\$8,675	11,947
Loan Term	12-257	120	123	11,947
Loan Interest	0.99%-12%	5.99%	5.6%	11,947
Credit Score	509-926	755	744	11,929
DTI	0-0.9848	0.345	0.337	10,774
Annual Income	0-\$725,000	\$65,000	\$77,460	4,724



Summary Statistics by Program

- Loan Amounts:

Data Set	Range	Median	Mean	# of Loans
Oregon	\$1,000-\$30,000	\$11,689	\$12,788	1,166
NYSERDA	\$701-\$25,000	\$8,439	\$9,531	3,446
PA Treasury	\$1,000-\$15,000	\$7,032	\$7,599	7,216
GCEA	\$1,000-\$21,000	\$7,538	\$8,863	112



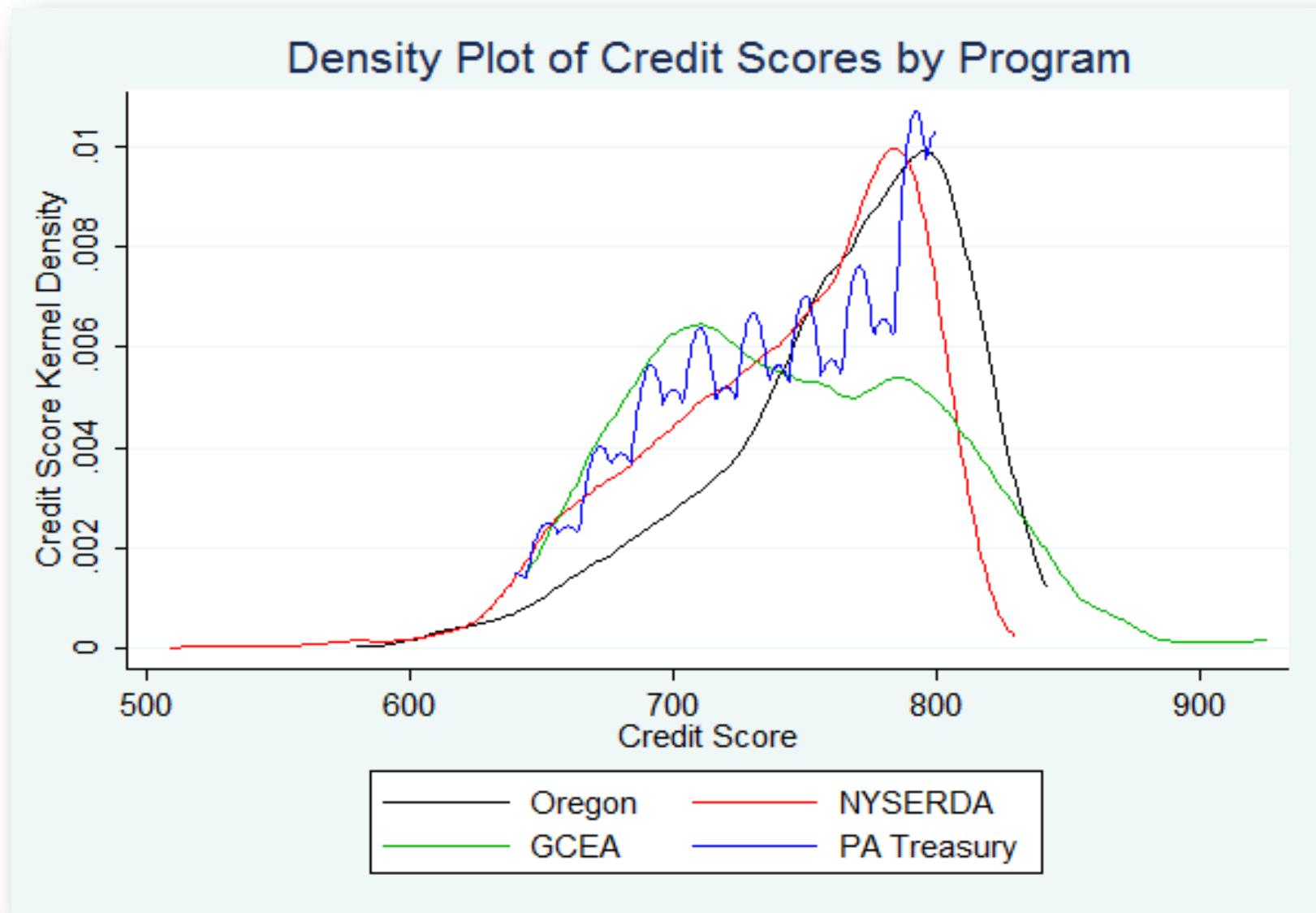
Summary Statistics by Program

- Borrowers Credit Scores:

Data Set	Range	Median	Mean	# of Obs
Oregon	580-842	773	763	1,166
NYSERDA	509-830	752	740	3,454
PA Treasury	640-800	740	742	7,216
GCEA	645-926	734	745	111



Summary Statistics by Program



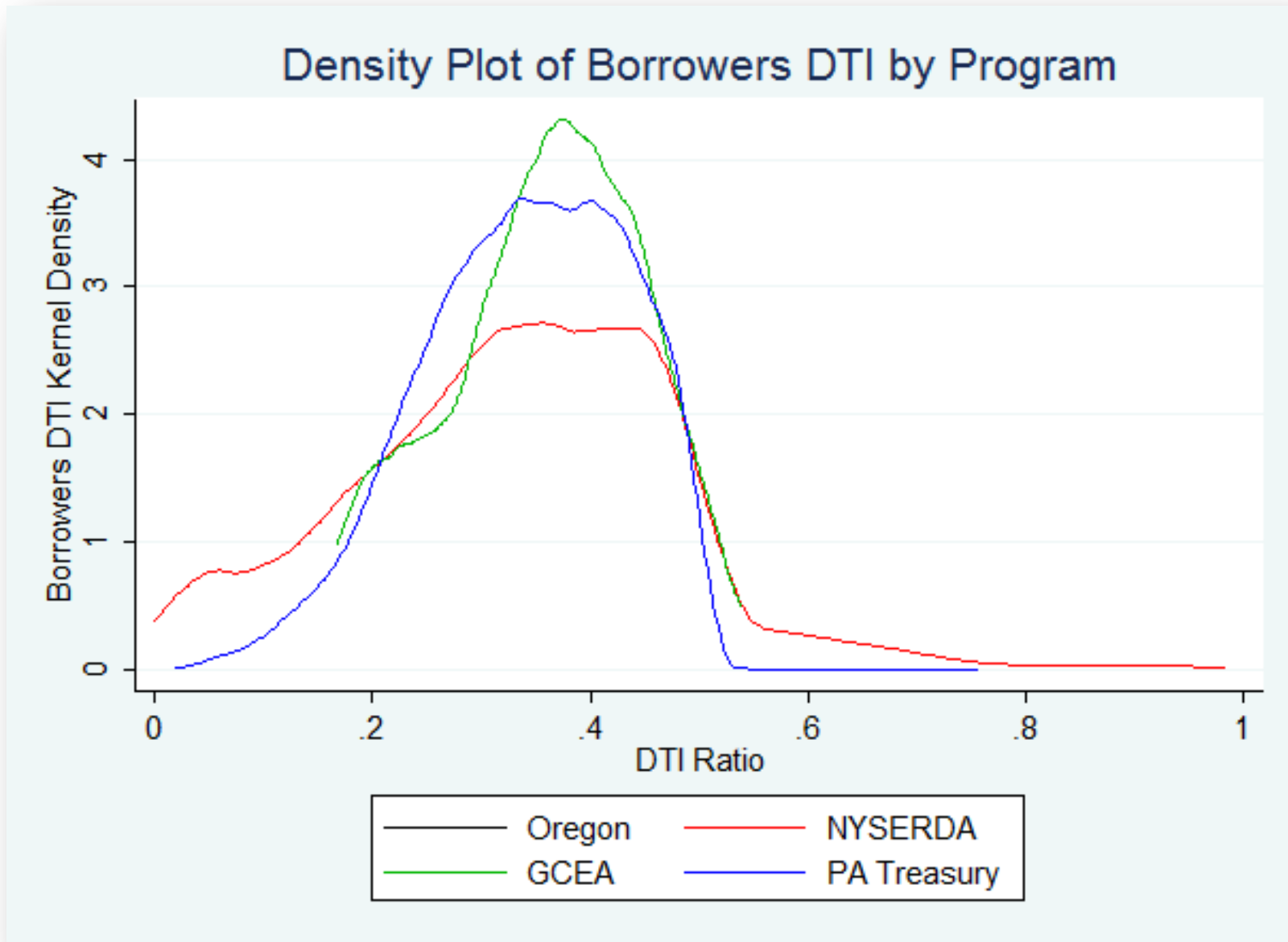
Summary Statistics by Program

- Borrowers DTI:

Data Set	Range	Median	Mean	# of Loans
Oregon				
NYSERDA	0-0.9848	0.339	0.331	3,446
PA Treasury	0.01-0.75	0.3468	0.340	7,216
GCEA	0.16-0.54	0.361	0.357	112



Summary Statistics by Program

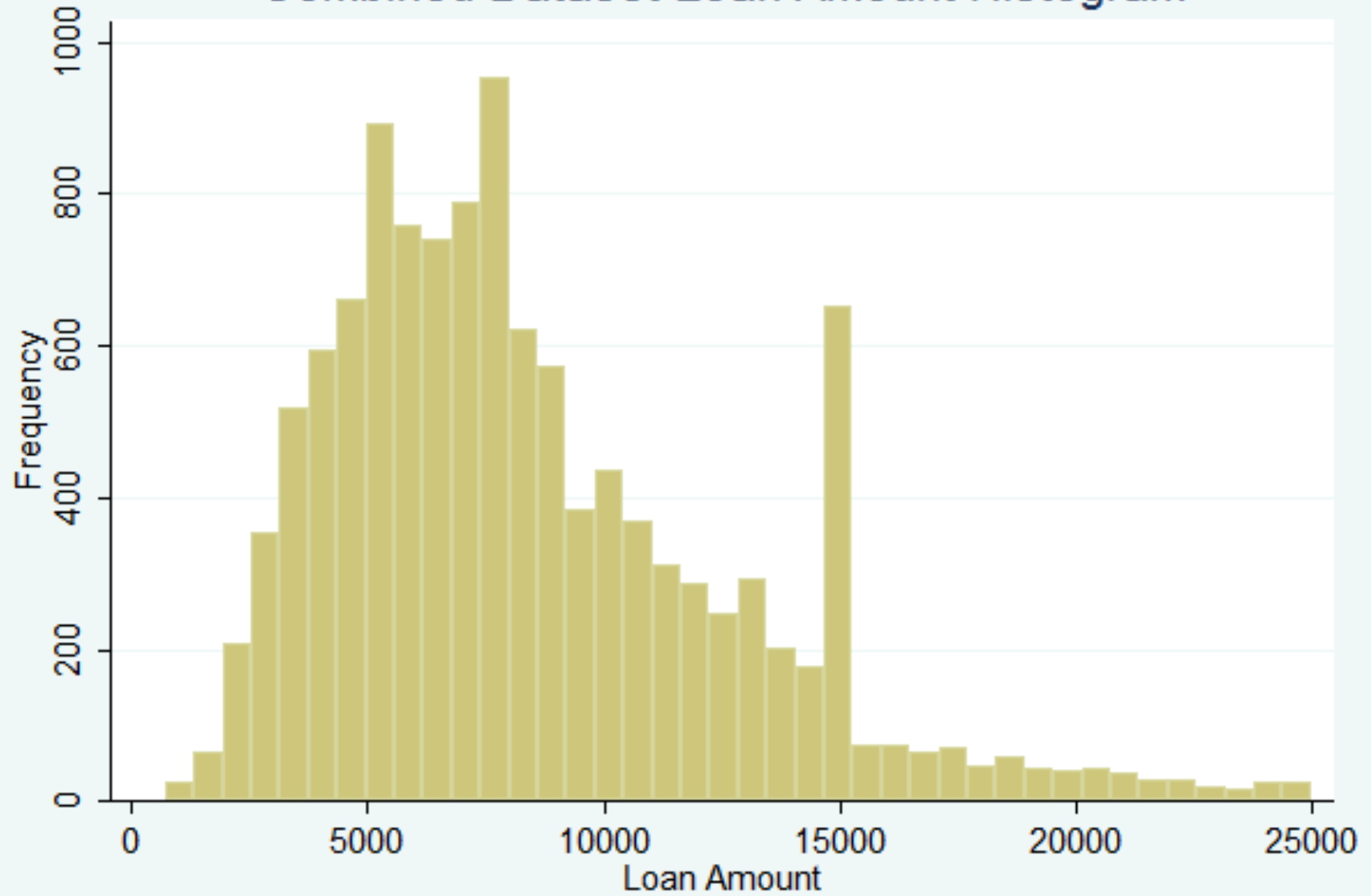


Analysis of Loan Amounts

- Combined Dataset
 - 11,947 Loans
 - Range: \$701-\$30,000
 - Mean: \$8,675, Median: \$7,500
 - Total Amount Lent: \$103,649,269



Combined Dataset Loan Amount Histogram



Analysis of Charge Offs

- 11,828 Loans
- 106 (0.89%) Charged Off, We Have Date and Amount Data For 103
- Charged Off Amounts Range from \$901-\$25,000
- Median: \$5,824 Mean: \$6,182
- Total Principal Lost: \$642,917



Analysis of Charge Offs by Program

Data Set	% Charged	# Charged	Range of Charged Off Amounts	Median Amount	Mean Amount
Oregon	0.17%	2	N/A	N/A	N/A
NYSERDA	0.4%	13	\$1,368-\$25,000	\$6,495	\$7,426
PA Treasury	1.26%	91	\$903-\$15,000	\$5,695	\$6,004
GCEA	N/A	N/A	N/A	N/A	N/A



Analysis of Charge Offs by Loan Term

Data Set	% Charged	# Charged	Range of Charged Off Amounts	Median Amount	Mean Amount
36-Month	0.68%	7	\$903-\$6,524	\$2,908	\$3,430
60-Month	1.02%	24	\$2,074-\$8,340	\$3,263	\$3,747
120-Month	1.32%	66	\$2,741-\$14,897	\$6,430	\$7,026
180-Month	0.31%	7	\$1,368-\$25,000	\$7,669	\$9,320
240-Month	0.18%	2	N/A	N/A	N/A

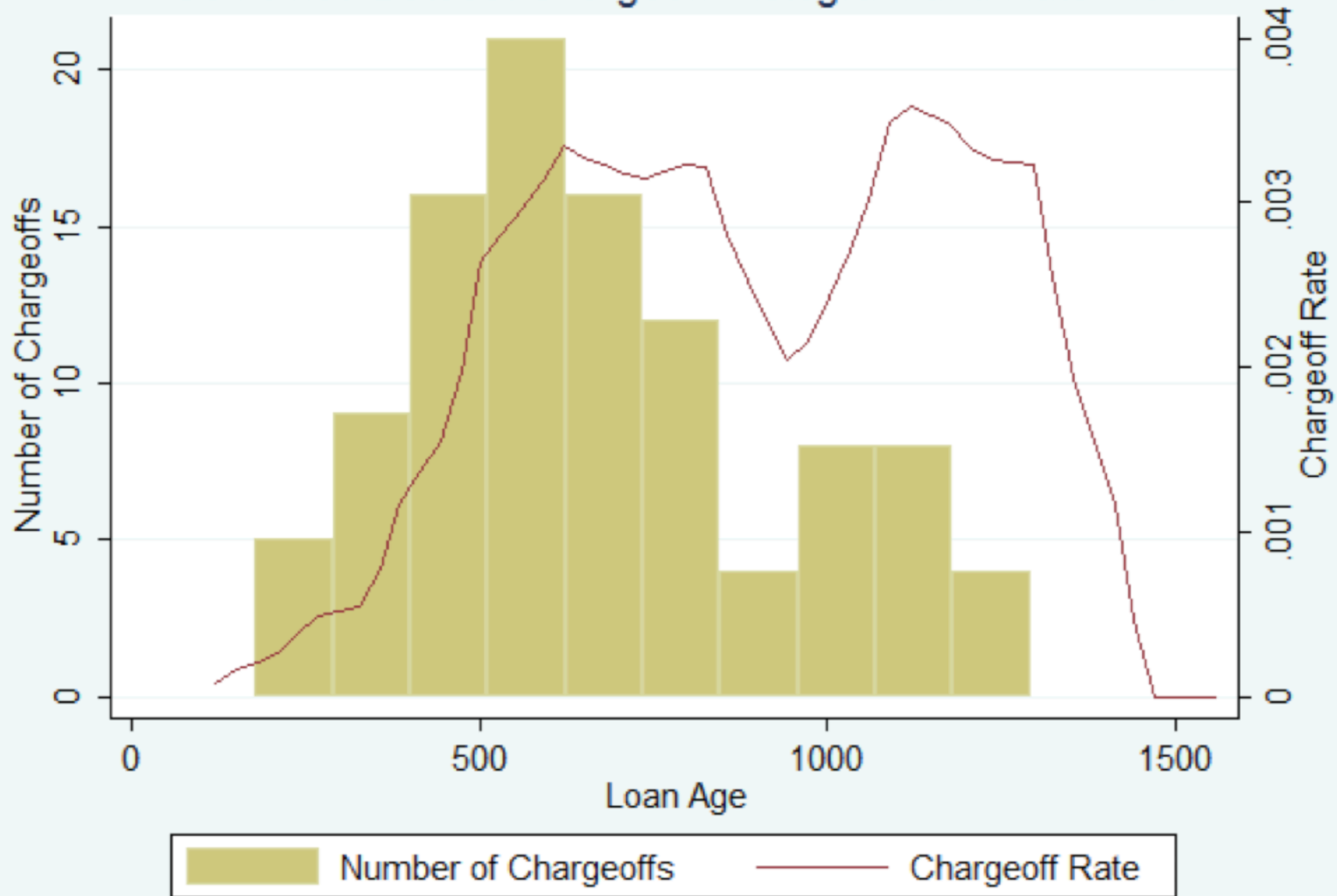


Charge Off Rates Over Time

- Rate of Charge Off increases as loans age to around 2 years then plateaus
- Measured rate is significantly less meaningful above 3 years because of small sample size



Combined Dataset Chargeoff Histogram and Rate Plot



Prepayment Analysis

- 11,828 Loans
- 2,040 (17.24%) Prepaid



Prepayment Rate by Program

Loan Program	# of Loans	# of Early Payoffs	Early Payoff Rate
PA Treasury	7216	1622	22.4%
NYSERDA	3446	100	2.9%
Oregon	1166	318	27.3%



Prepayment Rate by Loan Term

Loan Term in Months	# of Loans	# of early payoffs	Early Payoff Rate
36	1043	668	64.0%
60	2371	503	21.2%
120	5080	568	11.2%
180	2275	40	1.8%
240	1123	303	26.8%



Losses Analysis

- 11,947 Loans
- \$103,649,269 loaned out
- \$34,294,175 in expected interest payments
- \$137,943,444 expected to be paid back



Combined Dataset Losses Analysis

- 103 Charge Offs
- \$642,917 in lost principal, \$163,175 in lost interest
- \$806,092 in total losses, which is 0.58% of the total expected payback



Combined Dataset Losses Analysis

- 2,040 Prepayments
- \$301,910 in lost interest, which is 0.22% of the total expected payback
- \$1,108,002 in total losses, which is 0.8% of the total expected payback



Losses by Program

Program	Principal Losses from Chargeoffs	Interest Losses from Chargeoffs	Total Losses from Chargeoffs	Interest Losses from Payoffs	Total Losses	Total Losses as a Percent
Oregon	N/A	N/A	N/A	\$20,158	\$20,158	N/A
NYSERDA	\$96,453	\$22,435	\$118,888	\$2,739	\$121,627	0.29%
PA Treas.	\$546,373	\$140,739	\$687,112	\$279,011	\$966,123	1.37%



Losses by Loan Term

Loan Term	Principal Losses from Chargeoffs	Interest Losses from Chargeoffs	Total Losses from Chargeoffs	Interest Losses from Payoffs	Total Losses	Total Losses as a Percent
36-Month	\$24,014	\$1,432	\$25,446	\$112,142	\$137,588	2.41%
60-Month	\$89,942	\$8,581	\$98,523	\$99,010	\$197,533	1.1%
120-Month	\$463,717	\$135,561	\$599,278	\$70,222	\$695,500	1.2%
180-Month	\$65,241	\$17,600	\$82,841	\$375	\$83,216	0.27%
240-Month	N/A	N/A		\$19,203	\$19,203	N/A



Delinquency Analysis

- As of 7/31/2013, the combined dataset 30-day delinquency rate was 1.9%
- Without time-series data, a more meaningful delinquency analysis was not possible



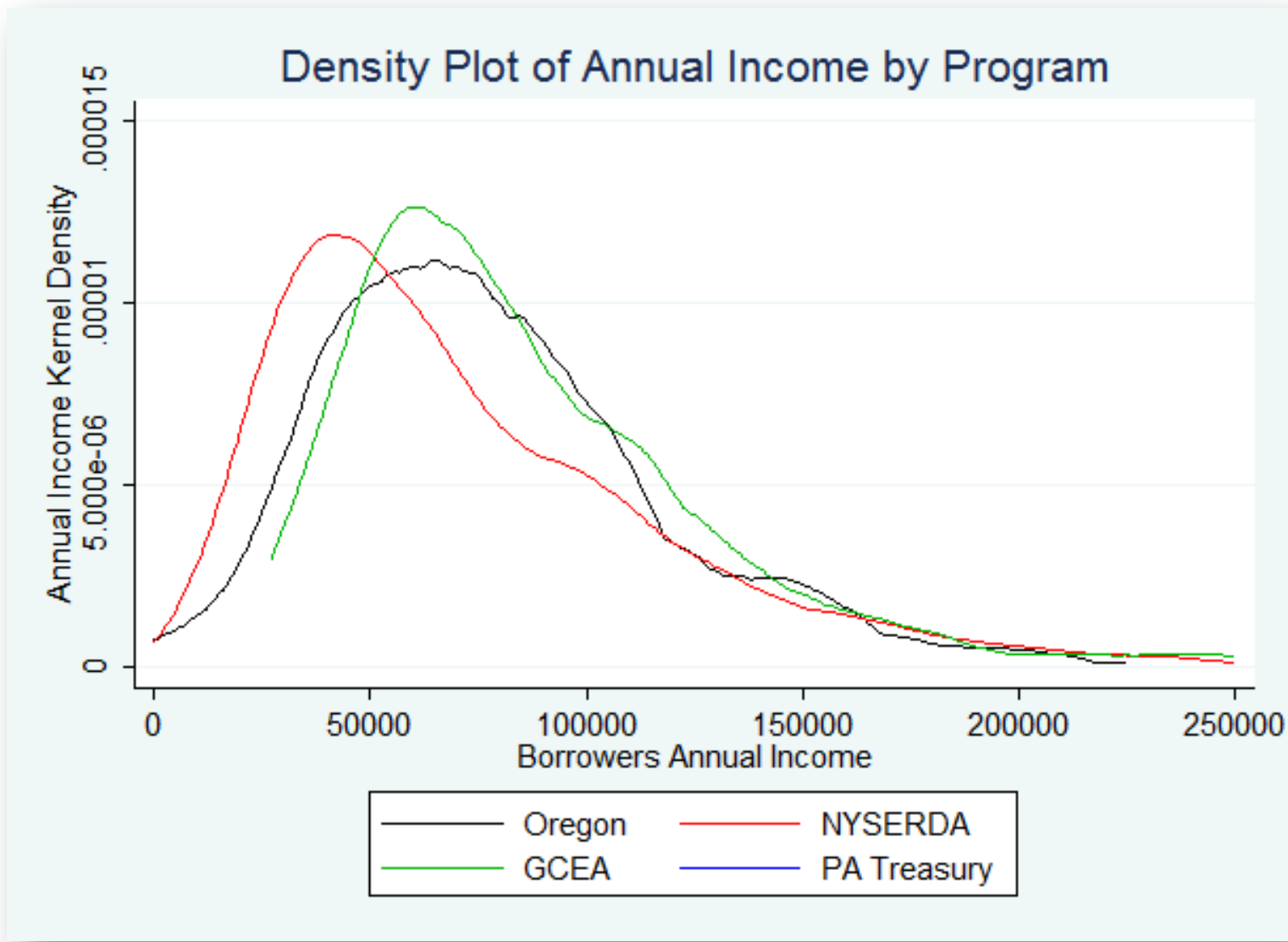
Summary Statistics by Program

- Borrowers Annual Income:

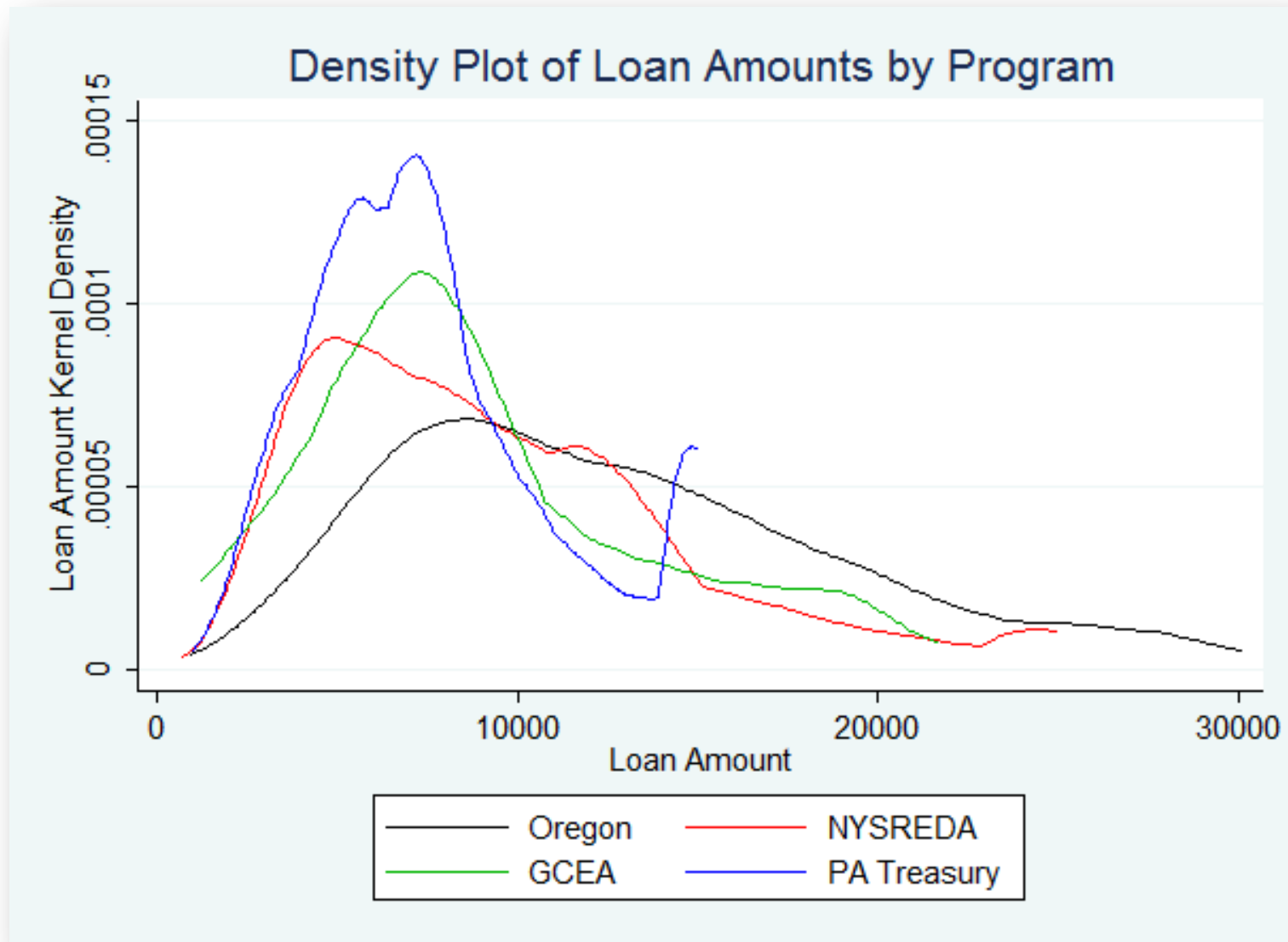
Data Set	Range	Median	Mean	# of Loans
Oregon	0-\$500,000	\$72,500	\$79,998	1,166
NYSERDA	0-\$725,000	\$61,214	\$76,336	3,446
PA Treasury				
GCEA	\$27,000-\$250K	\$73,200	\$85,607	112



Summary Statistics by Program



Summary Statistics by Program

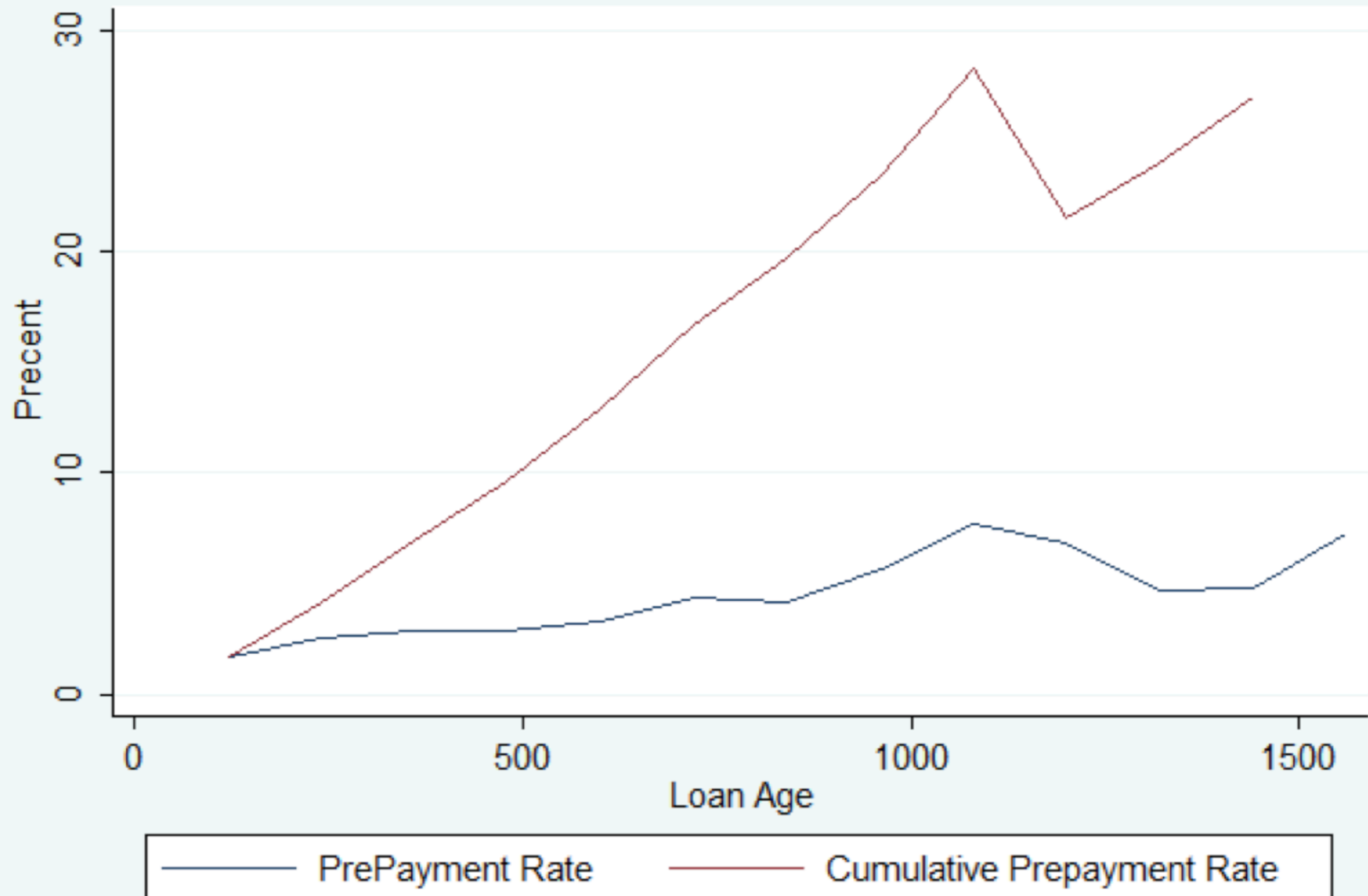


Prepayment Rates Over Time

- Prepayment rate slowly increases as loans age
- Measured rate is significantly less meaningful above 3 years because of small sample size



Combined Dataset Prepayment Rates by Loan Age



Total Amount Loaned Out by Program

Program	# of Loans	Total Lent	Total Expected Payback
Oregon	1166	\$14,911,852	\$25,384,522
NYSERDA	3446	\$32,845,566	\$40,843,761
PA Treasury	7216	\$54,837,059	\$70,337,771
GCEA	119	\$1,054,812	\$1,377,390



Total Amount Loaned Out by Loan Term

Loan Term	# of Loans	Total Lent	Total Expected Payback
36-Month	1043	\$5,151,073	\$5,700,994
60-Month	2371	\$16,000,947	\$18,607,645
120-Month	5080	\$43,731,557	\$57,811,207
180-Month	2275	\$23,791,428	\$30,357,192
240-Month	1120	\$14,693,458	\$25,117,119



Histogram of Combined Dataset Total Expected Interest Owed

