

Program Diversity and Persistence Visualizations

This section provides details on the visualizations available in the Program Persistence and Diversity solution, as well as the source data tables and fields in the Ed-Fi ODS.

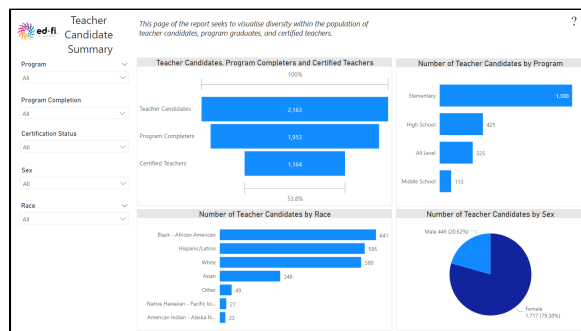
Visualizations Available

- [Teacher Candidate Summary](#)
- [Program Completion Rate by Race](#)
- [Certification Rate by Race](#)

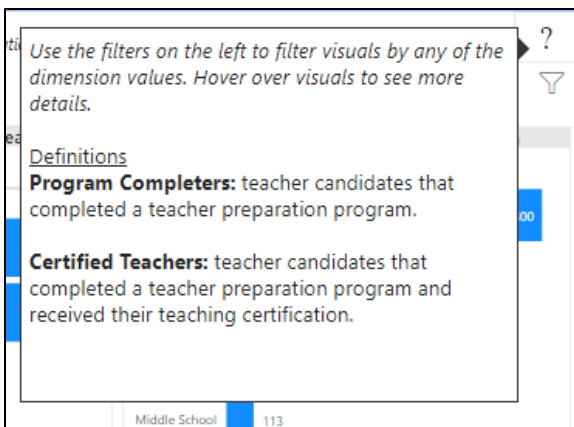
Teacher Candidate Summary

User Story: As a user in a program administration personnel role, I want to view a breakdown of all teacher candidates in my program by different attributes in order to get a snapshot of how diverse the teacher candidate population is.

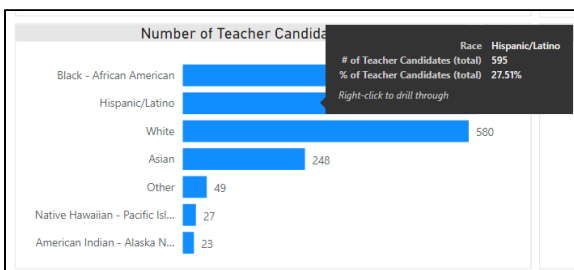
Report View: The **Teacher Candidate Summary** page provides a breakdown of teacher candidates by race, sex, and grade level. The page also includes a visual that shows the number of teacher candidates through the enrollment to certification pipeline.



- Use the filters on the left to filter all visuals by different attribute values.
- Hovering over the "?" in top right corner shows a tooltip of useful definitions. This tooltip can be edited by editing the **Tooltip page** in the report.



- Hovering over visuals provides more information on the data being presented. For example, hovering over the Number of Teacher Candidates by Race visual shows a tooltip that includes the percentage.

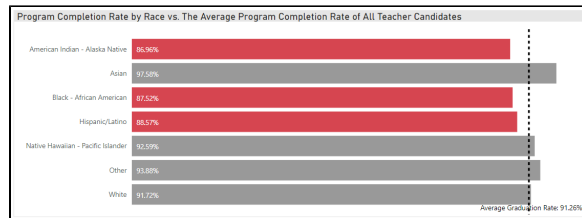


Program Completion Rate by Race

User Story: As a user in a program administration personnel role, I want to know if receiving a grant is correlated to higher program completion rates. I then want to compare this correlation by race.

Report View: The **Program Completion by Race** page includes 3 visuals.

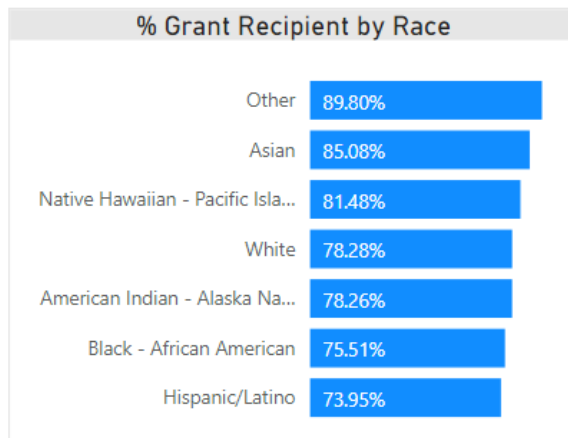
The first visual provides a breakdown of the program completion rates by race and compares these rates to the average completion rate of all teacher candidates. If the completion rate of a racial group is below average, the bar will be red. If the rate is at or above average, the bar will be gray.



The second visual summarizes the number and percentage of teacher candidates, the program completion rate, the certification rate, and the percentage of teacher candidates that received a grant by race in a table. The purpose of this table is to provide summarized numbers for users that prefer seeing numbers displayed this way instead of a chart.

Race	# of Teacher Candidates (total)	% of Teacher Candidates (total)	Program Completion Rate	Certification Rate	% Grant Recipient
American Indian - Alaska Native	23	1.06%	86.96%	75.00%	78.26%
Asian	248	11.47%	97.58%	70.66%	85.08%
Black - African American	641	29.63%	87.52%	34.94%	75.51%
Hispanic/Latino	595	27.51%	88.57%	63.38%	73.95%
Native Hawaiian - Pacific Islander	27	1.25%	92.59%	64.00%	81.48%
Other	49	2.27%	93.88%	21.74%	89.80%
White	580	26.81%	91.72%	79.32%	78.28%
Total	2,163	100.00%	90.29%	59.60%	77.35%

The final visual sorts the percentage of each race that received grants from highest to lowest. Looking at this visual along with the program completion rates visual should answer the question of whether there is a relationship between receiving grants and completing a program.



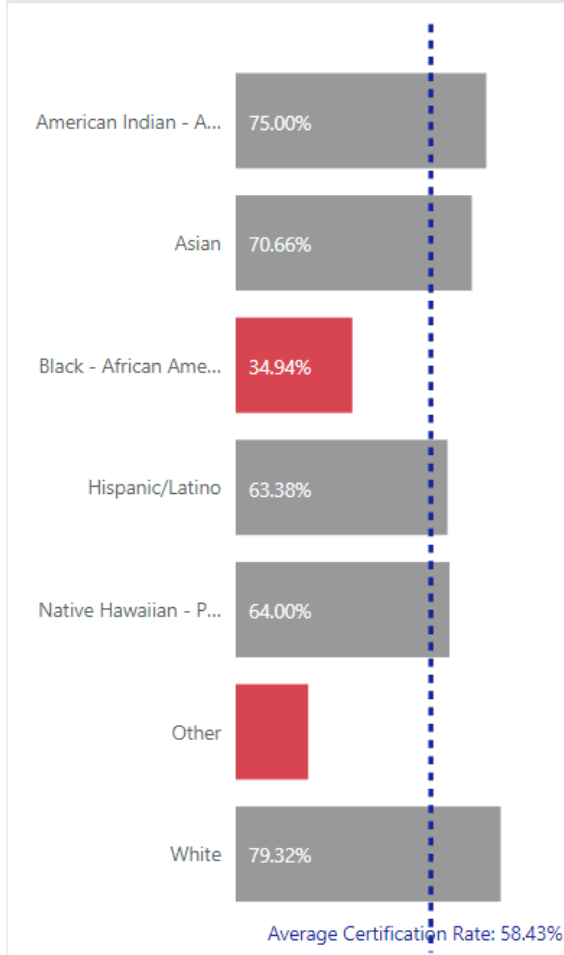
Certification Rate by Race

User Story: As a user in a program administration personnel role, I want to know the difference between program completion rate and certification rate by race.

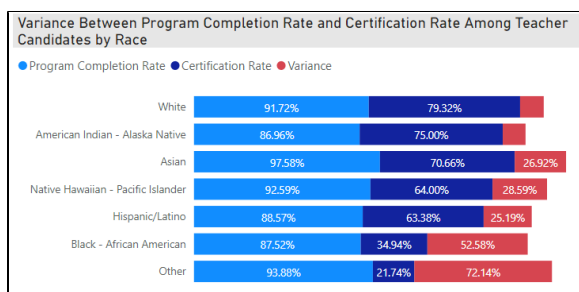
Report View: The **Certification by Race** page includes 3 visuals.

The first visual provides a breakdown of the certification rates by race and compares these rates to the average certification rate of all teacher candidates. If the certification rate of a racial group is below average, the bar will be red. If the rate is at or above average, the bar will be gray.

Certification Rate by Race vs. The Average Certification Rate of All Teacher Candidates



The second visual compares the the program completion rates with certification rates and provides the variance between the two. The purpose of this visual is see the percentage of teacher candidates that are lost in the pipeline from program completion to certification.



The final visual summarizes the number and percentage of teacher candidates, the program completion rate, the certification rate, and the percentage of teacher candidates that received a grant by race in a table. The purpose of this table is to provide summarized numbers for users that prefer seeing numbers displayed this way instead of a chart.

Race	# of Teacher Candidates (total)	% of Teacher Candidates (total)	Program Completion Rate	Certification Rate	% Grant Recipient
American Indian - Alaska Native	23	1.06%	86.96%	75.00%	78.26%
Asian	248	11.47%	97.58%	70.66%	85.08%
Black - African American	641	29.63%	87.52%	34.94%	75.51%
Hispanic/Latino	595	27.51%	88.57%	63.38%	73.95%
Native Hawaiian - Pacific Islander	27	1.25%	92.59%	64.00%	81.48%
Other	49	2.27%	93.88%	21.74%	89.80%
White	580	26.81%	91.72%	79.32%	78.28%
Total	2,163	100.00%	90.29%	59.60%	77.35%

Data Sources

The following shows the tables and fields from the Ed-Fi ODS v5.0.0 with TPDM extensions that were used to build the visualizations above to answers questions related to Educator Preparation Program Persistence and Diversity.

Name	Description	Comments
Tpdm.TeacherCandidate Table		
TeacherCandidateIdentifier (PK)	A unique identifier for each teacher candidate record.	
FirstName	Teacher candidate first name.	
LastName	Teacher candidate last name.	
GenderDescriptorId (FK, GenderDescriptor)	Foreign key that ties to Gender Descriptor table.	
HispanicLatinoEthnicity	An indication that the individual traces his or her origin or descent to Mexico, Puerto Rico, Cuba, Central, and South America, and other Spanish cultures, regardless of race. The term, "Spanish origin," can be used in addition to "Hispanic or Latino."	1 = Hispanic 0 = Not Hispanic
EconomicDisadvantaged	An indicator that identifies a teacher candidate as economically disadvantaged.	1 = Economically Disadvantaged 0 = Not Economically Disadvantaged
ProgramCompleted	An indication of whether the teacher candidate completed the program they are enrolled in.	1 = Complete 2 = Incomplete
TPDM.CredentialExtension Table		
CredentialIdentifier (PK)	A unique identifier assigned to each record in the Credential Extension table.	
PersonId (FK, Person)	Foreign key that ties to Person table.	
Edfi.Credential Table		
CredentialIdentifier (FK, CredentialExtension)	A unique identifier assigned to each record in the Credential Extension table.	
ExpirationDate	Year, month, and, day the credential expires.	
IssuanceDate	Year, month, and, day the credential was issued to a program graduate.	
Edfi.EducationOrganization Table		

EducationOrg anizationId (PK)	A unique ID assigned to each TPP.	
NameofInstitu tion	The name of the TPP.	
Edfi.Descriptor Table		
DescriptorId (PK)	A unique identifier for each record in the Descriptor table.	
CodeValue	The value associated with each DescriptorId.	
Tpdm.TeacherCandidateTeacherPreparationProviderProgramAssociation Table		
BeginDate	Year, month, and, day a teacher candidate started the program.	
EducationOrg anizationId (FK, EducationOrg anization)	The TPP in which the program exists. Foreign key that ties to the Education Organization table.	
ProgramName	The name of the program.	
TeacherCandi dateIdentifier (FK, TeacherCandi date)	Foreign key that ties to Teacher Candidate table.	
Tpdm.TeacherCandidateTPPProgramDegree Table		
GradeLevelID escriptorID	An ID assigned for the range of grades that a teacher candidate is specializing in to teach.	
TeacherCandi dateIdentifier (FK, TeacherCandi date)	Foreign key that ties to Teacher Candidate table.	
TPPDegreeT ypeDescriptor Id	An ID assigned for the type of degree a Teacher Candidate is working towards.	
Edfi.Session Table		
SchoolID	An ID assigned to each school.	
School Year	The school year. Starts in the fall and ends in spring.	2015
SessionName	The term name.	Spring 2015; Fall 2016
BeginDate	The year, month, and, day that a session begins.	
EndDate	The year, month, and, day that a session ends.	
Tpdm.EvaluationRatingResult		
EvaluationDate	Year, Month, and, day when evaluation occurred.	
EvaluationTitle	The name of the Evaluation.	
PersonId (FK, Person)	Foreign key that ties to Person table.	
EducationOrg anizationId (FK, EducationOrg anization)	An ID assigned to each TPP. Foreign key that ties to the Education Organization table.	
SchoolYear	The school year for which the evaluation was taken.	
TermDescript orID	An ID assigned to each term.	

Rating	A numeric rating that is given to each evaluation.	
RatingResult Title	A description of each Rating given to an evaluation.	