

Text-Mining of the User Generated Queries on Menstrual Pain

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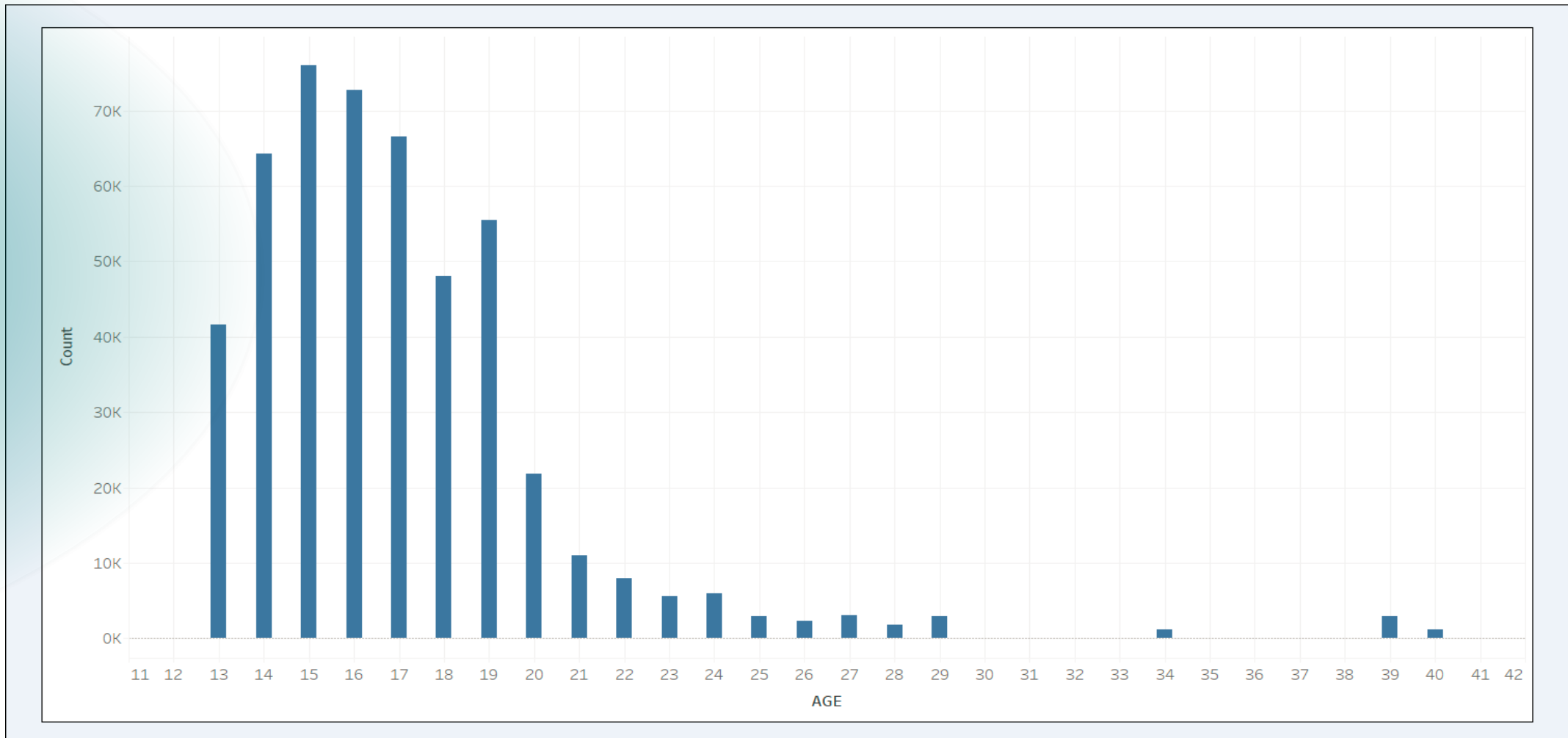
Sponsor: Dr. Chen X. Chen

Dysmenorrhea

A Study to identify relevant support for treatment or education on Dysmenorrhea

With Age does Questions drop?

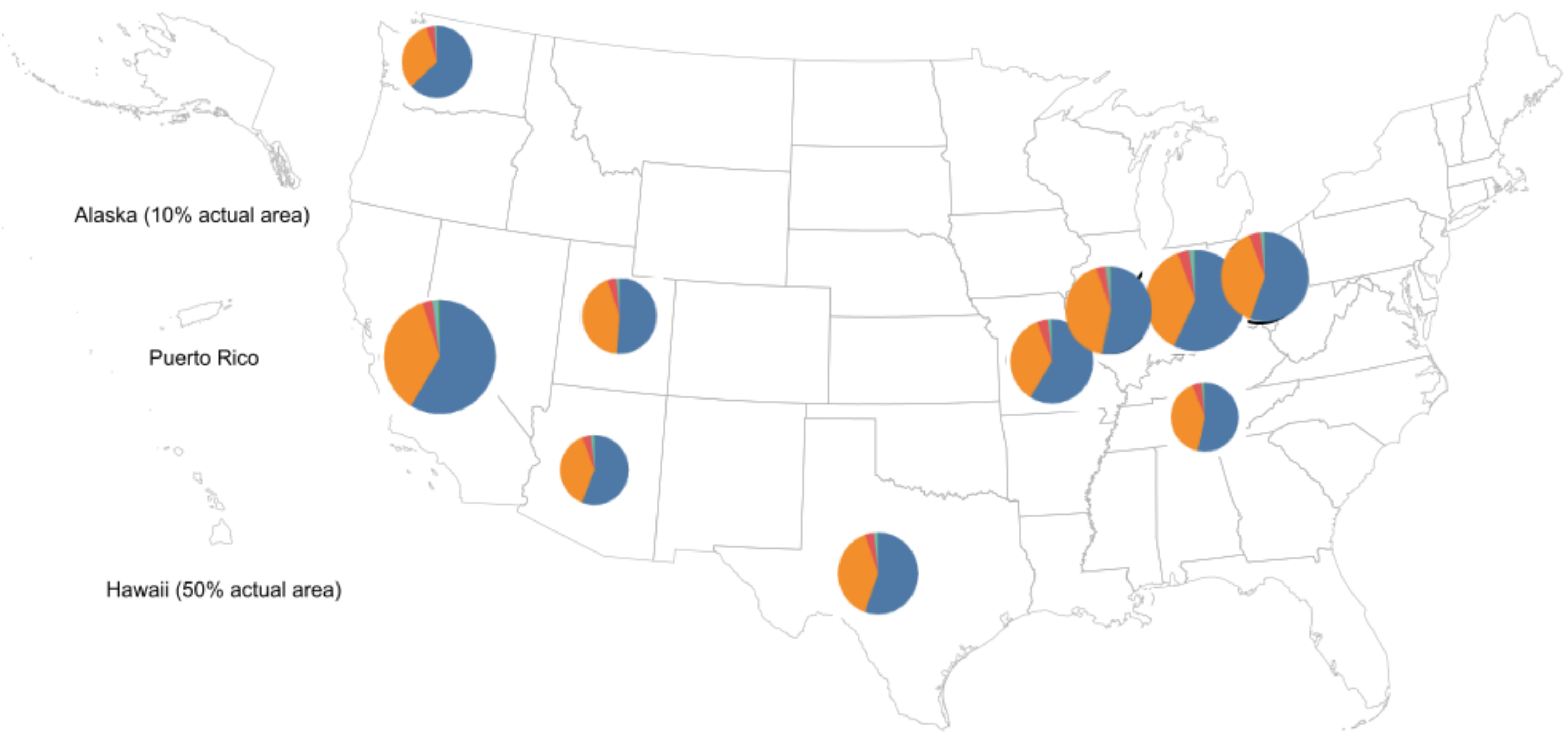
Age



Teenagers asking the maximum questions. Is it more awareness of the Social media or the number of questions drop with age and awareness



- 1. California tops with most number of questions.
- 2. Ages 13 to 24 are most active ages with most number of questions. This pattern is almost same in all the states.



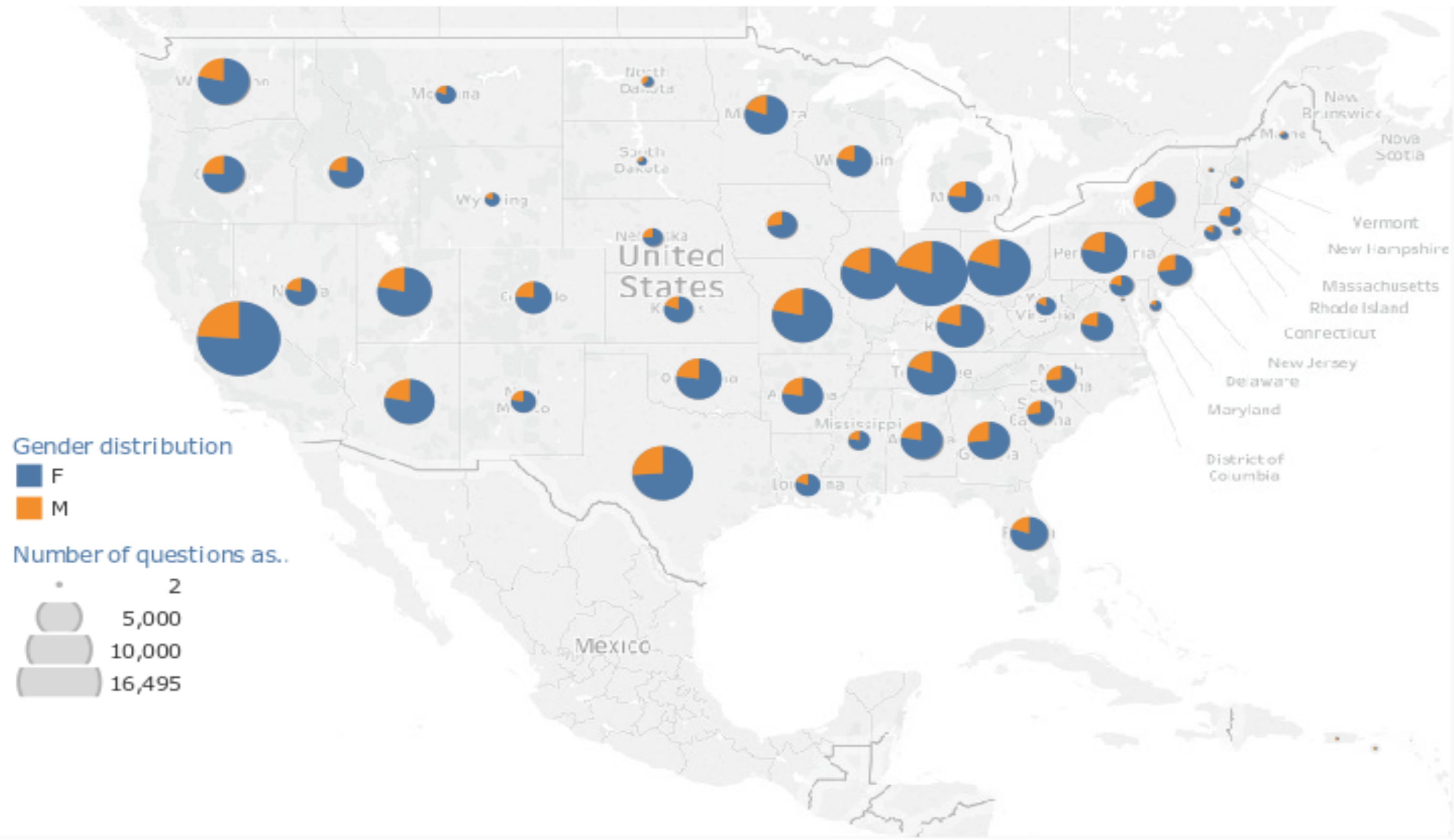
Legend

Age Group Area (Linear)

0-17
18-24
25-34
35-44
45-54

COUNT
12,562
8,592
4,622

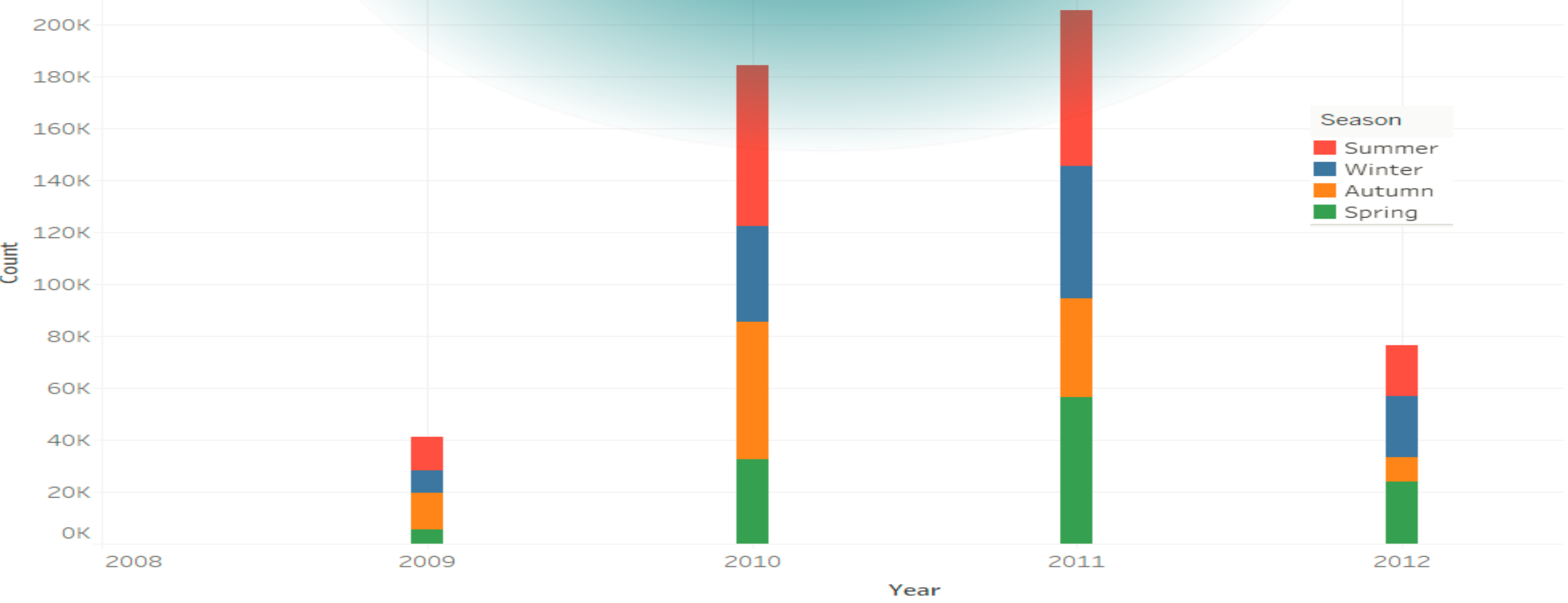
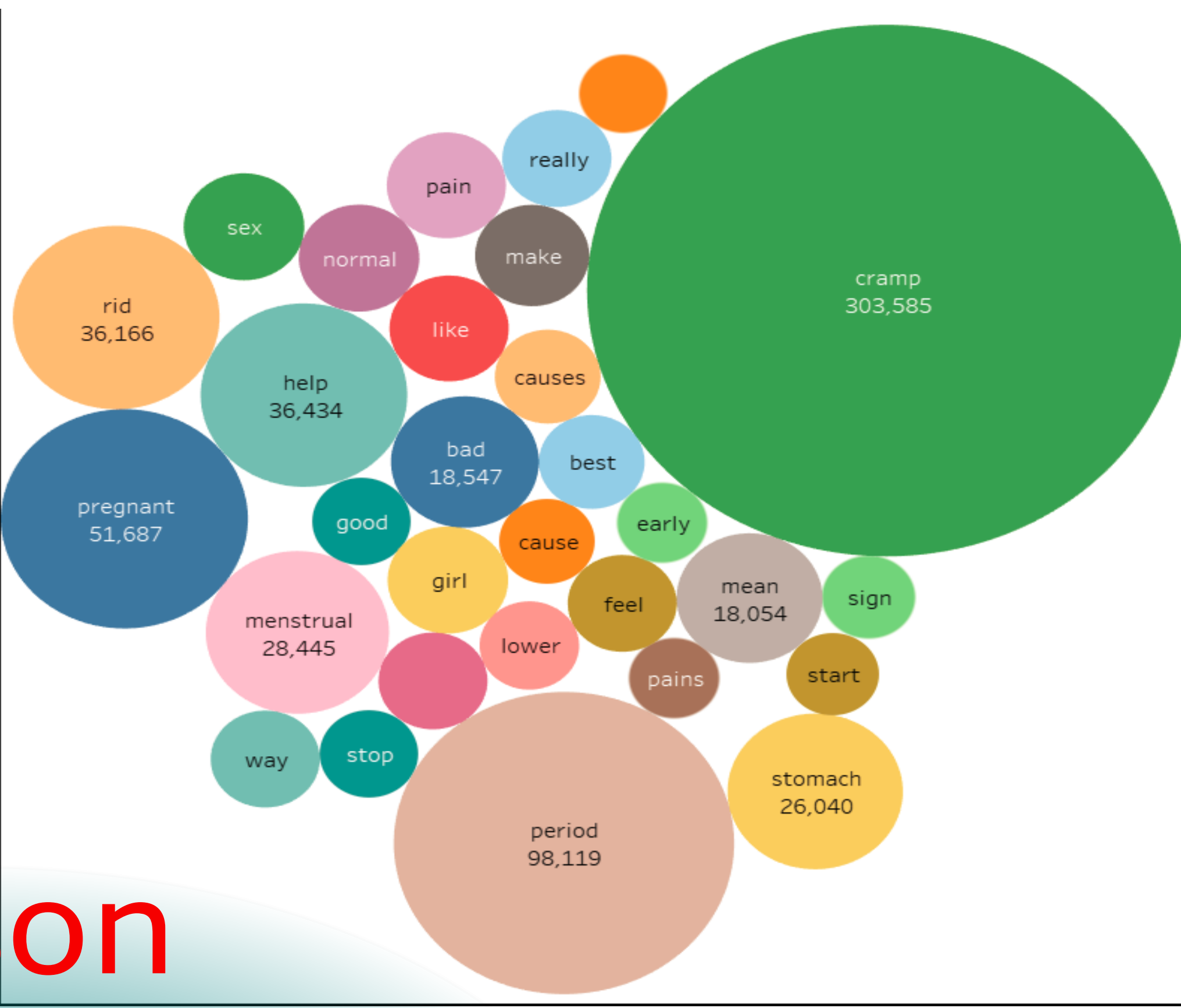
Distribution of questions by State and Gender



Gender distribution skewed due to the Dataset

Identifying the season requiring maximum support

Season



Summer season shows maximum queries

Opinion Mining

Does the Mean Sentiment Score across Age Groups and Gender signify the approach to dysmenorrhea?

Question	Sentiment Score	Sentiment Polarity
What's a great natural remedy for cramps?	0.9238	Positive
Is it normal to have mild cramping when you are 13 weeks pregnant?	0.5	Neutral
I am having really painful abdominal cramps and I don't know why or how to get rid of them. Help!!!	0.0286	Negative

All Age Groups displayed Negative Score for the Total 250 random queries across age groups