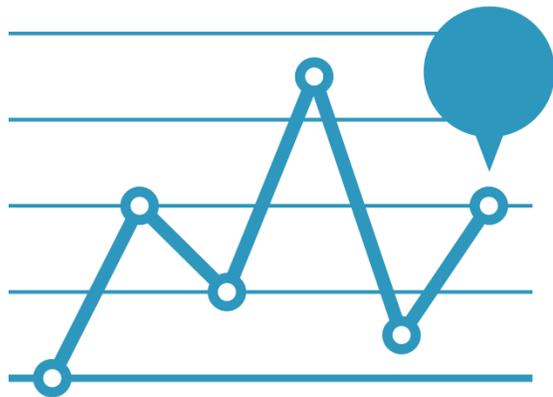


DATA-DRIVEN PROGRAMS FOR MIGRATORY & SEASONAL FARMWORKERS



Bethany Boggess

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National Center for Farmworker Health

April 28, 2015

Important Webinar Reminders

- The webinar will last about an hour
- Please ask questions in the chat box whenever you have them! You can send them privately to the Organizer (Christina) or publicly to the group.
- Everyone participating in the webinar will be muted. Please accept the audio pin when joining or mute your phone/microphone.
- Move your cell phones away from your computer.

3 Parts:

Part I: Case study & key resources

Part II: Setting up your data

Part III: Using your data

Part I: Case Study & Key Resources

Case study: Increasing access

Estimated number of workers, spouses, & kids in Texas: 450,000+

Number served by Health Centers: 11,004

What's going on??

Case study continued

Percent of farmworker adults who are uninsured:

Western Stream: 63%

Eastern Stream: 79%

Midwestern Stream: 87%

Percent of farmworker kids who are uninsured:

Western Stream: 14%

Eastern Stream: 37%

Midwestern Stream: 52%



NCFH Information Resources

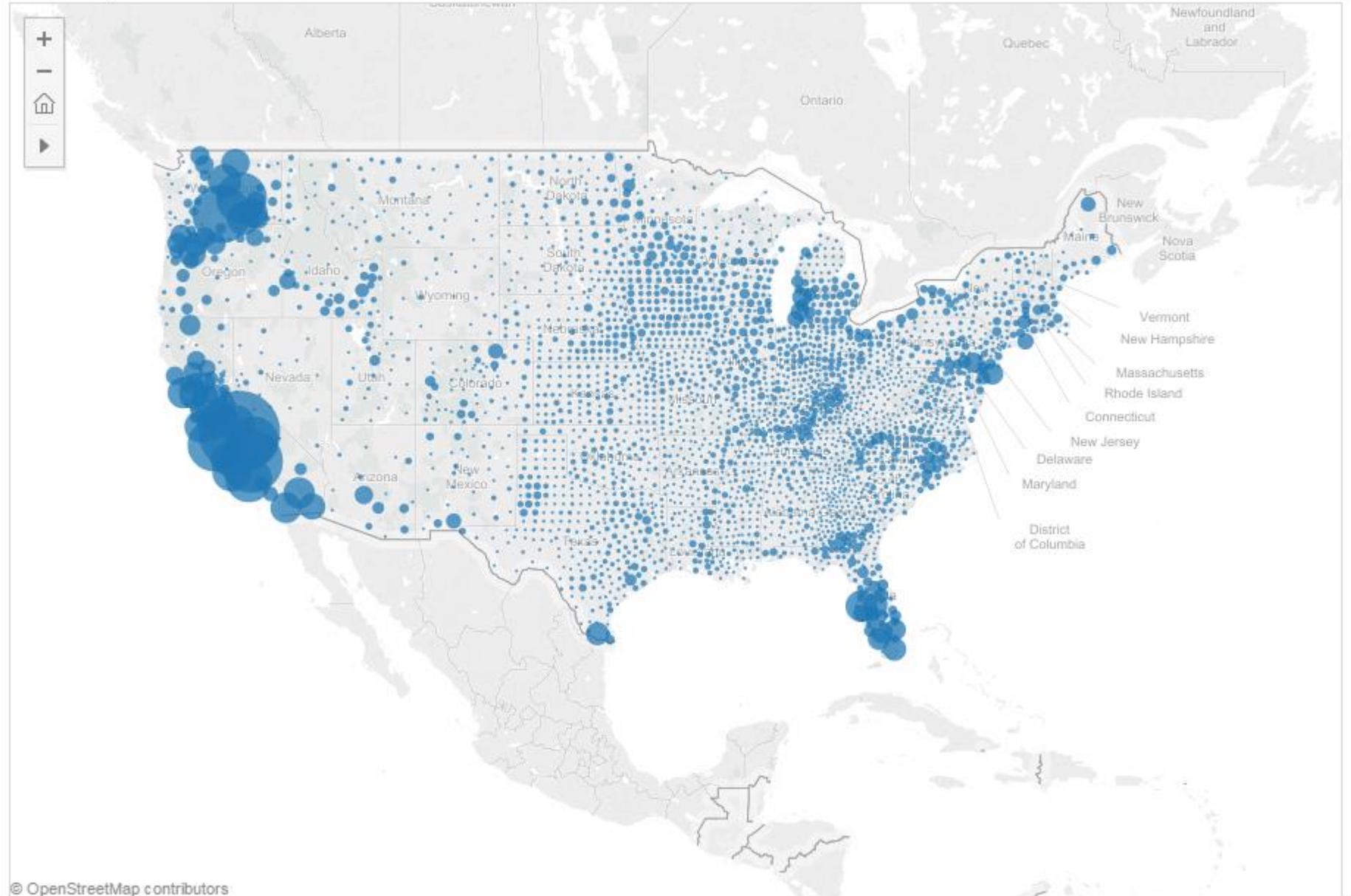
- NCFH fact sheets
- NCFH estimates map
- H-2A data + NCFH H-2A map
- OSHA data
- National Agricultural Workers Survey data
- MSFW State Monitor Advocates
- Census of Agriculture
- Migrant Education

<http://www.ncfh.org/facts.html>

<http://www.ncfh.org/open-access-data.html>

The farmworker estimates maps: Both crop & animal production workers now available!

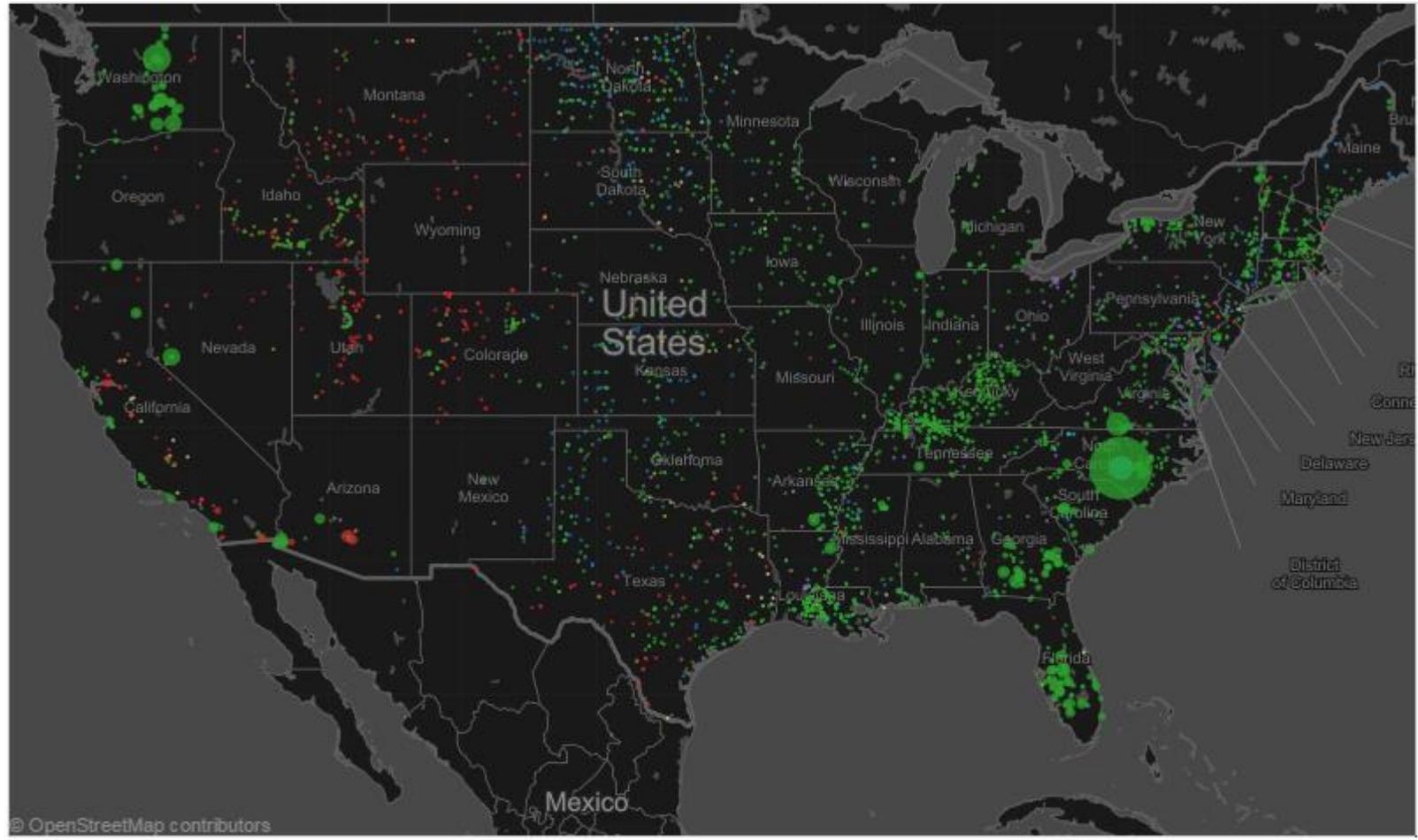
2012 Crop Production Worker Estimates



© OpenStreetMap contributors

The H-2A worker map

2014 H-2A Employer Certifications



© OpenStreetMap contributors

Job Titles

| | |
|--|--|
| ■ Crop Production Workers | ■ Grain Production Workers |
| ■ Animal, Livestock, Ranch Production Workers | ■ Bee and Honey Production Workers |
| ■ Aquaculture Production Workers | ■ Other |
| ■ Christmas Tree Production Workers | |
| ■ Mechanical and Equipment Operators | |
| ■ Nursery Production Workers | |

State

(All) ▾

Number of Workers Certified

1 18,956

▾ ▸

Part II: Setting Up Your Data

The User Story

Always think about your users before creating a data tool.

Our user story: I'm a director of a Migrant Health program. We're getting ready to plan our mobile clinics for the next year, and we need to know where and when farmworkers will be in our area.

Step 1: Check it out.

Download your data & open it.

What information is included?

Which pieces of information look most useful?

How many records are there?

*For mapping:

How are the locations recorded? Is the address, city, and state all in column?

Step 2: Be a minimalist.

If you only need data for Texas, then pull out Texas data and add it to a new spreadsheet.

If you only need data on the wage and location of employment, pull it out and add it to a new spreadsheet.

Step 3. Keep it clean.

If the data have a lot of issues, like misspelled names or missing entries, clean it up beforehand.

Part III: Using Your Data

Open Tableau Public

tableau+public

Manage Your Workbooks

Create a viz now

1. Open your data (.xls or .txt)
2. Drag & Drop to visualize

▶ Open Data

2012 Crop Production Work.. Texas Wage Theft Claims 20.. 2014 US Worker Fatalities 2015 Fatalities

9.0 is Here! Update to the Latest Version of Tableau Public

You need to update to 9.0 to save your work!

Download Tableau Desktop - Public Edition v9.0

Tableau Public has a brand new website.

Check it Out

Viz of the Day

On the Blog

19 hours ago 4 days ago 28 April 2015 Presented by B. Boggess | (c) NCFH

Connect to & Load Data

Tableau Public - Book2

File Data Help

Connect

To connect to more data sources, [upgrade to Tableau Professional](#).

In a file

- Tableau Data Extract
- Microsoft Access
- Microsoft Excel**
- Text File

On a server

- Action Vectorwise
- Amazon Redshift
- Aster Database
- Cloudera Hadoop
- DataStax Enterprise
- EXASolution
- Firebird
- Google Analytics

gess ▾ Dropbox ▾ BBogges ▾ Migrant Health Data ▾ H2A

Search H2A

| Name | Date modified | Type | Size | A | B | C | D |
|-------------------|-------------------|-----------------------|----------|-----------------------|---------------|------------|-----------------|
| H2a_2013_GeoModif | 8/14/2014 3:03 PM | Microsoft Excel W... | 192 KB | 1 CASE_NO | DECISION_DATE | VISA_CLASS | CASE_RECEIVED_D |
| H-2A_FY14_Q1 | 3/24/2014 2:41 PM | Microsoft Excel W... | 188 KB | 2 H-300-13073-953233 | 10/17/2013 | H-2A | 9/3/20 |
| H-2A_FY14_Q4 (1) | 1/12/2015 3:47 PM | Microsoft Excel W... | 1,653 KB | 3 H-300-13078-133974 | 10/30/2013 | H-2A | 9/24/20 |
| H-2A_FY2012 | 6/6/2014 8:18 AM | Microsoft Excel W... | 1,237 KB | 4 H-300-13078-340392 | 10/22/2013 | H-2A | 8/15/20 |
| H2A_FY2013 | 11/9/2014 9:06 AM | Microsoft Excel 97... | 3,279 KB | 5 H-300-13079-039285 | 10/18/2013 | H-2A | 9/3/20 |
| | | | | 6 H-300-13079-135500 | 10/22/2013 | H-2A | 9/3/20 |
| | | | | 7 H-300-13079-203390 | 11/4/2013 | H-2A | 9/3/20 |
| | | | | 8 H-300-13079-666492 | 10/29/2013 | H-2A | 9/3/20 |
| | | | | 9 H-300-13084-504164 | 12/19/2013 | H-2A | 12/3/20 |
| | | | | 10 H-300-13085-009010 | 11/13/2013 | H-2A | 11/4/20 |
| | | | | 11 H-300-13085-010779 | 11/22/2013 | H-2A | 11/4/20 |
| | | | | 12 H-300-13085-435276 | 12/4/2013 | H-2A | 11/4/20 |
| | | | | 13 H-300-13085-495172 | 11/14/2013 | H-2A | 11/4/20 |
| | | | | 14 H-300-13085-694528 | 11/19/2013 | H-2A | 11/4/20 |
| | | | | 15 H-300-13087-159280 | 11/22/2013 | H-2A | 11/4/20 |
| | | | | 16 H-300-13092-010944 | 11/21/2013 | H-2A | 11/12/20 |
| | | | | 17 H-300-13092-191622 | 12/4/2013 | H-2A | 11/4/20 |
| | | | | 18 H-300-13092-242950 | 11/21/2013 | H-2A | 11/4/20 |
| | | | | 19 H-300-13092-437537 | 11/8/2013 | H-2A | 11/4/20 |
| | | | | 20 H-300-13092-544987 | 11/22/2013 | H-2A | 11/12/20 |

H-2A_FY14_Q1 28 April 2015 | Presented by B. Bogges | (c) NCFH

Excel Workbooks (*.xls;*.xlsx;*.xl*)

Open Cancel

Connect to & Load Data

FY14_Q1

Hide fields if you need to.

Copy

Go to Worksheet

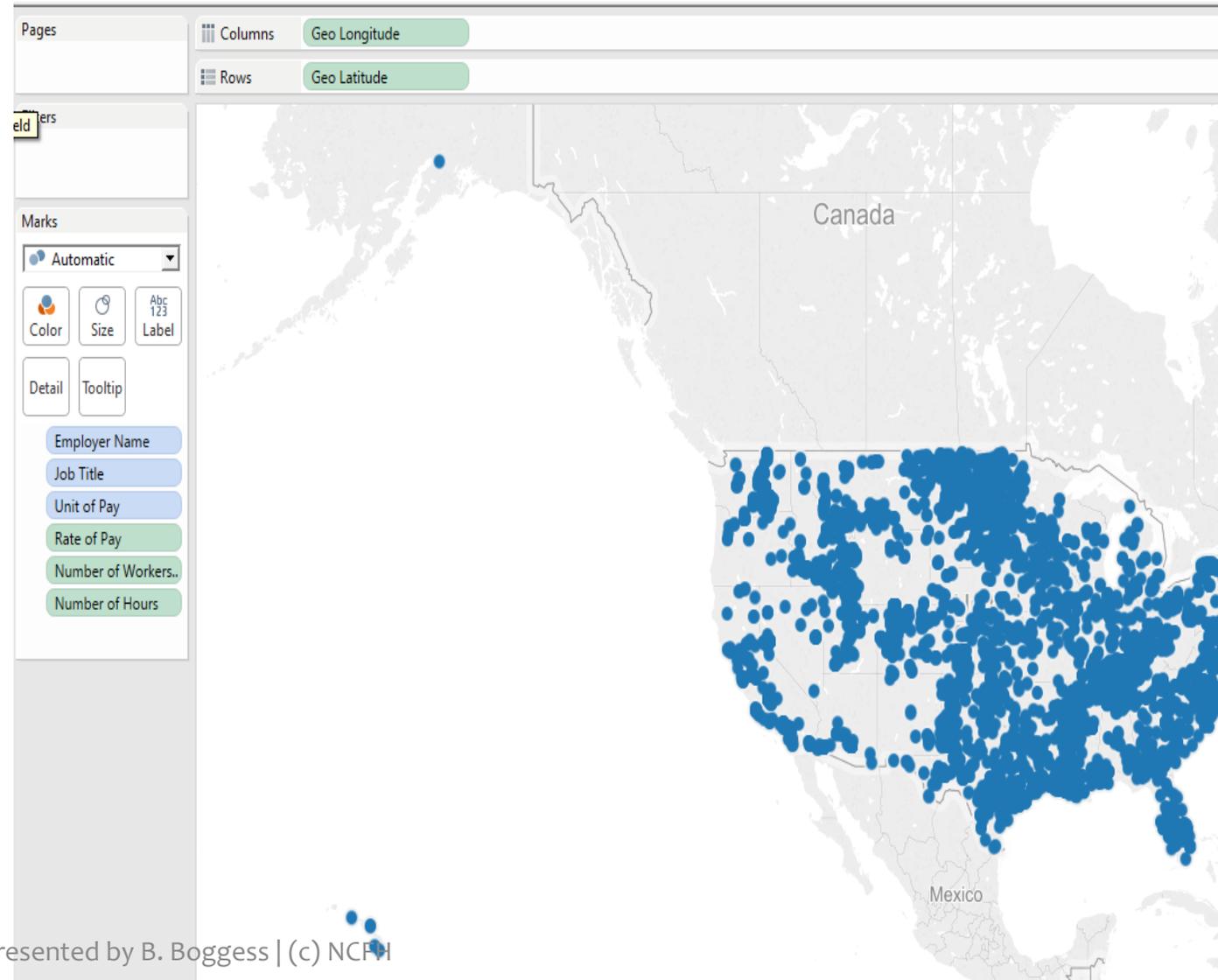
Show hidden fields Rows 1,077

| Case No Abc | Decision Date 📅 | Visa Class Abc | Case Received Date 📅 | Case Status Abc | Requested Start Date Of Need 📅 | Requested End Date Of Need 📅 | Certification Begin Date 📅 | Certification End 📅 |
|------------------|------------------------|-------------------|-------------------------|--------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|
| H-300-13073-9... | 10/17/2013 5:21:53 ... | H-2A | 9/3/2013 | DETERMINATION... | 11/1/2013 | 10/31/2014 | 11/1/2013 | 10/31/2014 |
| H-300-13078-1... | 10/30/2013 2:03:55 ... | H-2A | 9/24/2013 | DETERMINATION... | 11/15/2013 | 7/30/2014 | 11/15/2013 | 7/30/2014 |
| H-300-13078-3... | 10/22/2013 1:54:12 ... | H-2A | 8/15/2013 | DETERMINATION... | 10/1/2013 | 9/30/2014 | 10/1/2013 | 9/30/2014 |
| H-300-13079-0... | 10/18/2013 3:05:25 ... | H-2A | 9/3/2013 | DETERMINATION... | 11/1/2013 | 10/31/2014 | 11/1/2013 | 10/31/2014 |
| H-300-13079-1... | 10/22/2013 3:16:06 ... | H-2A | 9/3/2013 | DETERMINATION... | 11/1/2013 | 10/31/2014 | 11/1/2013 | 10/31/2014 |

Inside Tableau: Sheets

First we'll make a map.

1. Drag the Geo longitude and Geo latitude over to the Columns & Rows shelves.
2. Then click “Show Me” and click on the map with circles.
3. Add Info the Tool Tip by dragging it over.

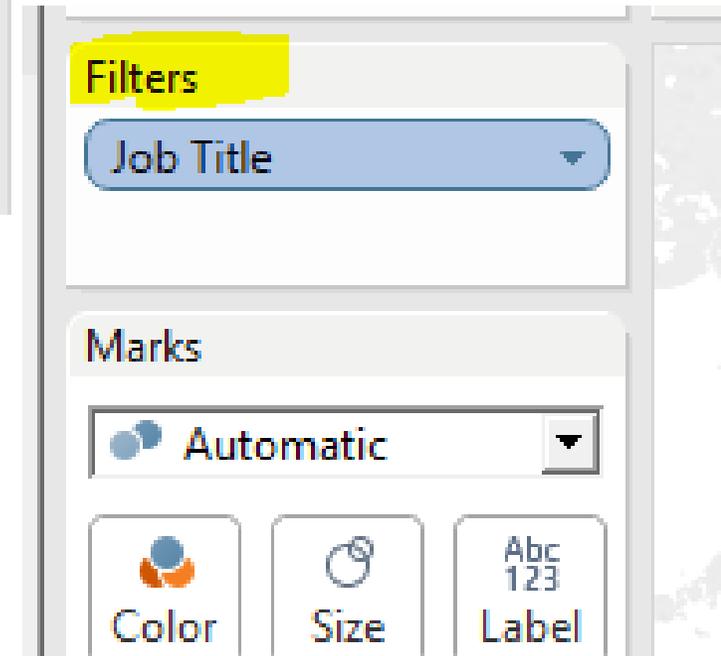
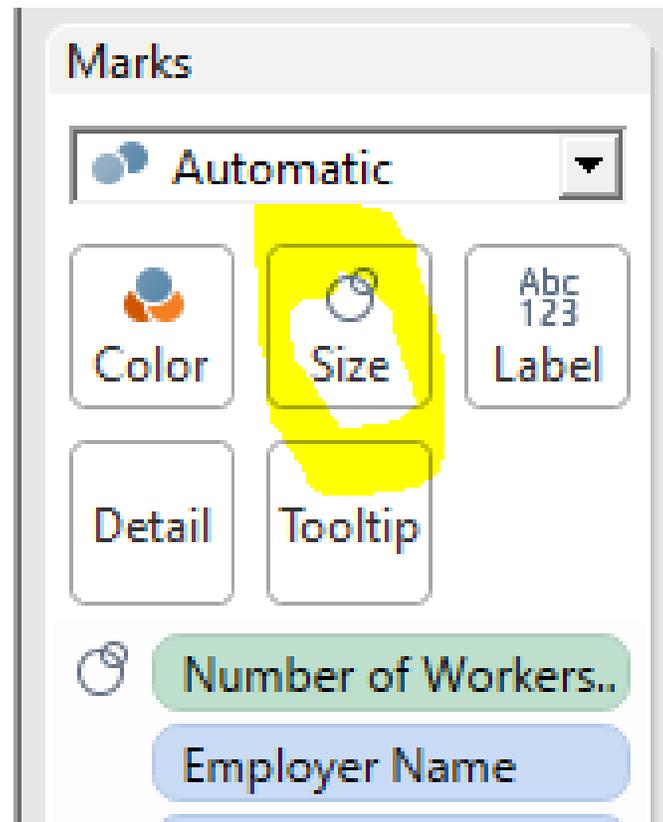


Sheet 1: Map

Now let's make it interesting.

Drag Number of Workers Certified over to the Size button.

Then add Job Title to the Filters shelf.



Dashboard 1: Map

Now we will format the map by using the dashboard feature.

We'll add a dashboard and drag the Map sheet over.

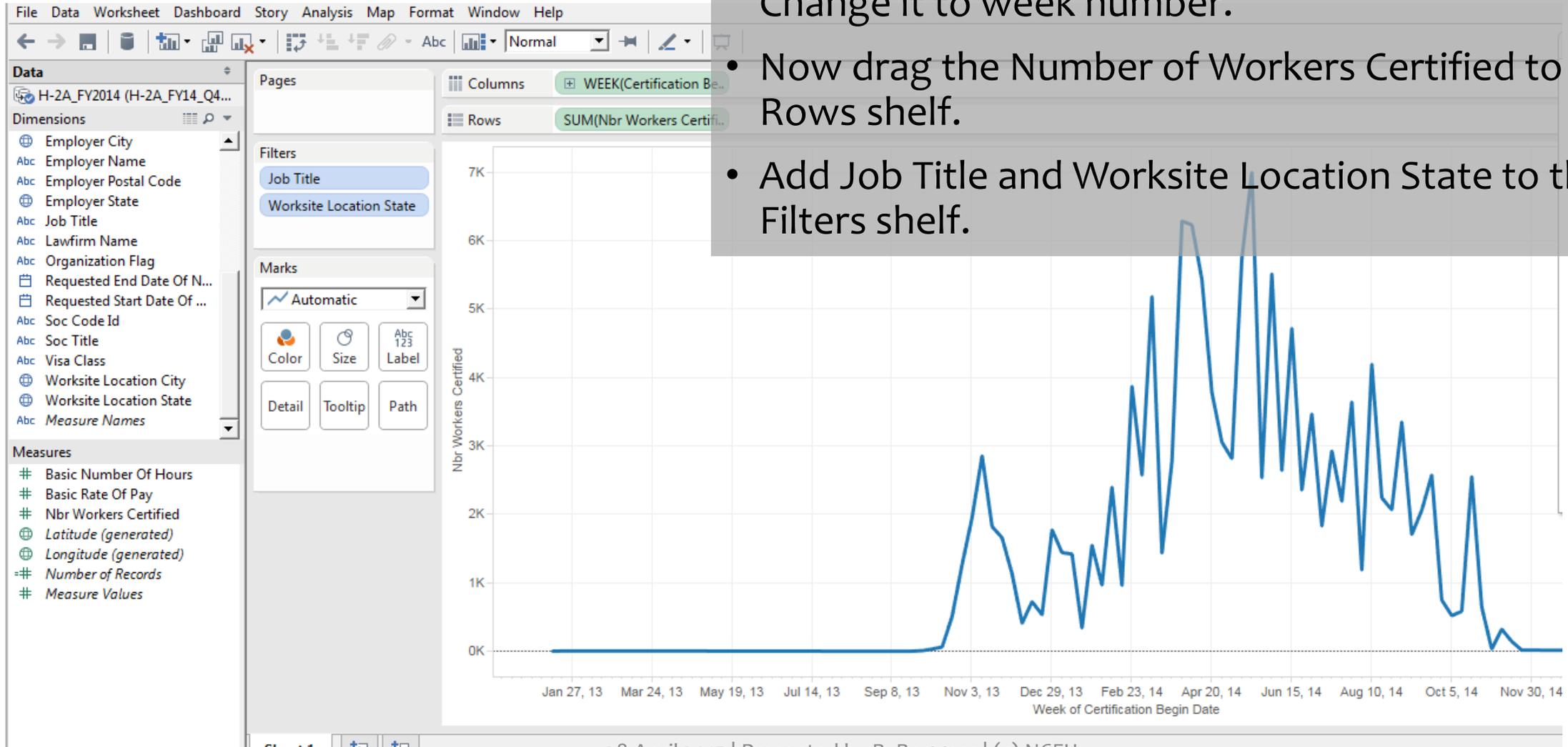
Then make the filters “Floating”.

Lastly, change the size of the dashboard to “Laptop”.

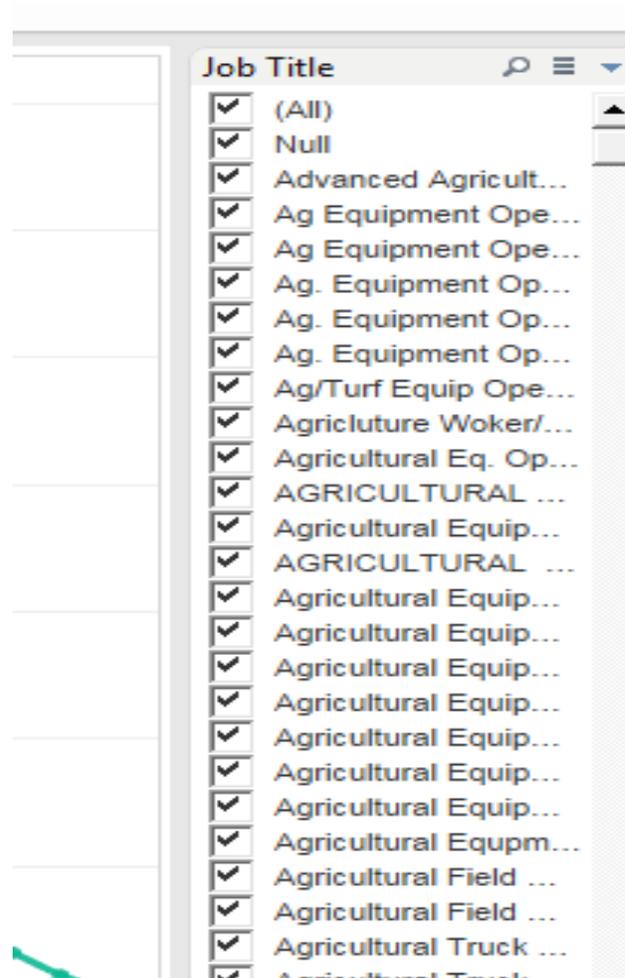
The screenshot displays a Power BI dashboard titled "H-2A Workers Begin Date". The main visual is a map of the United States with green bubbles of varying sizes representing the number of workers certified. A legend titled "Number of Workers Certified" is overlaid on the map, showing bubble sizes for 0, 500, 1,000, and 1,711. The dashboard is configured with a "Floating" layout and is sized for "Laptop". The "Number of Workers Certified" filter is highlighted in blue in the "Layout" pane. The "Map" sheet is also highlighted in yellow in the "New objects" section. The dashboard is titled "H-2A Workers Begin Date" and includes a "Begin Date" filter and a "2014 H-2A Workers" filter. The "Number of Workers Certified" filter is set to "Floating" and "Show Title" is checked.

Sheet 2: Timeline

- Let's look at timing of when workers were hired.
- Add a new sheet.
- Drag Certification Begin Date to the Columns shelf. Change it to week number.
- Now drag the Number of Workers Certified to the Rows shelf.
- Add Job Title and Worksite Location State to the Filters shelf.



Sheet 2: Timeline

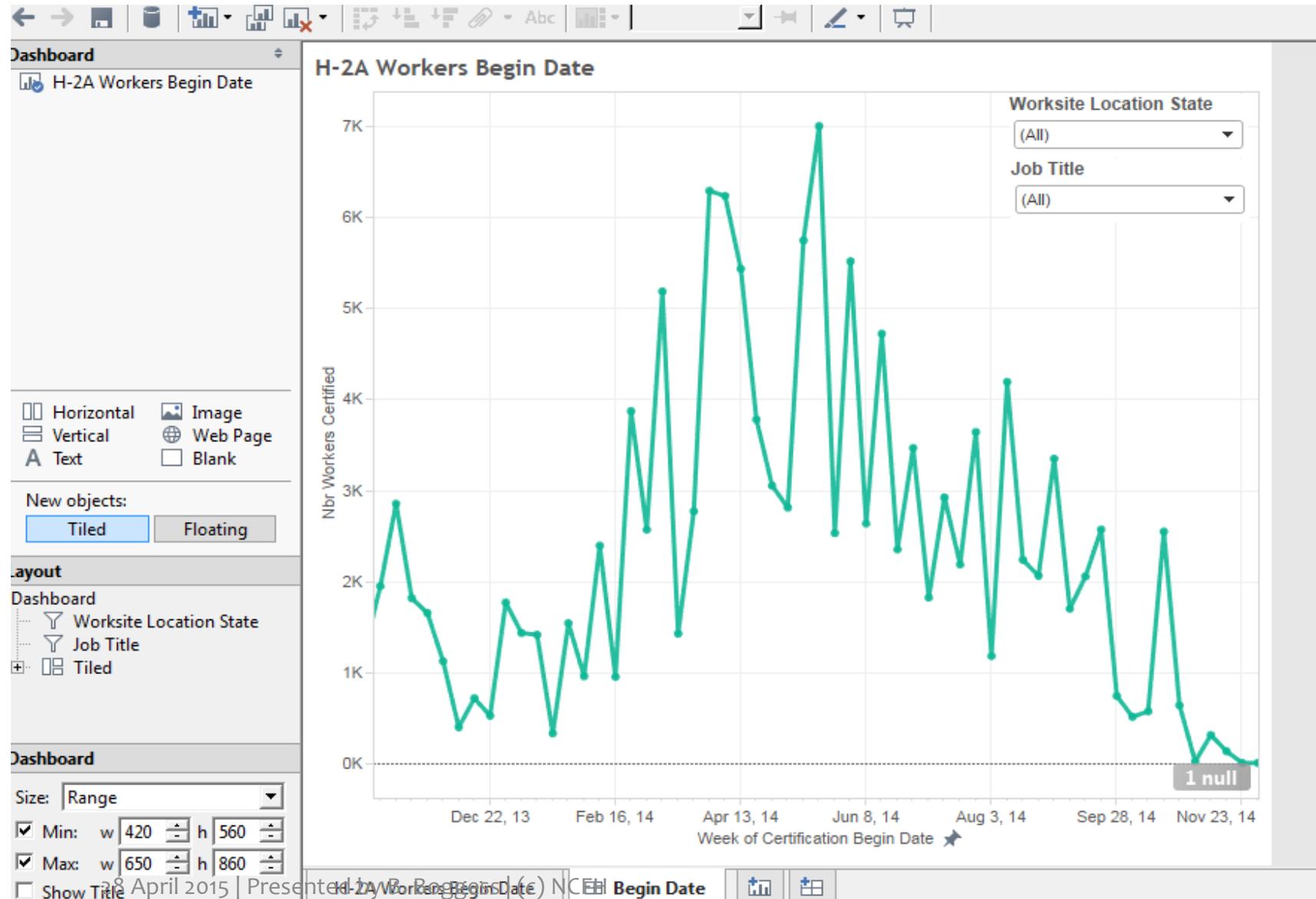


Add these filters as quick filters so that users can interact with them.

Change the filters so that they're in the most usable format.

Dashboard 2: Timeline

- Add a new dashboard. This is where we format the sheets for users.
- Size
- Interactive filters



Create a story

Let's put it all together in a user friendly format!

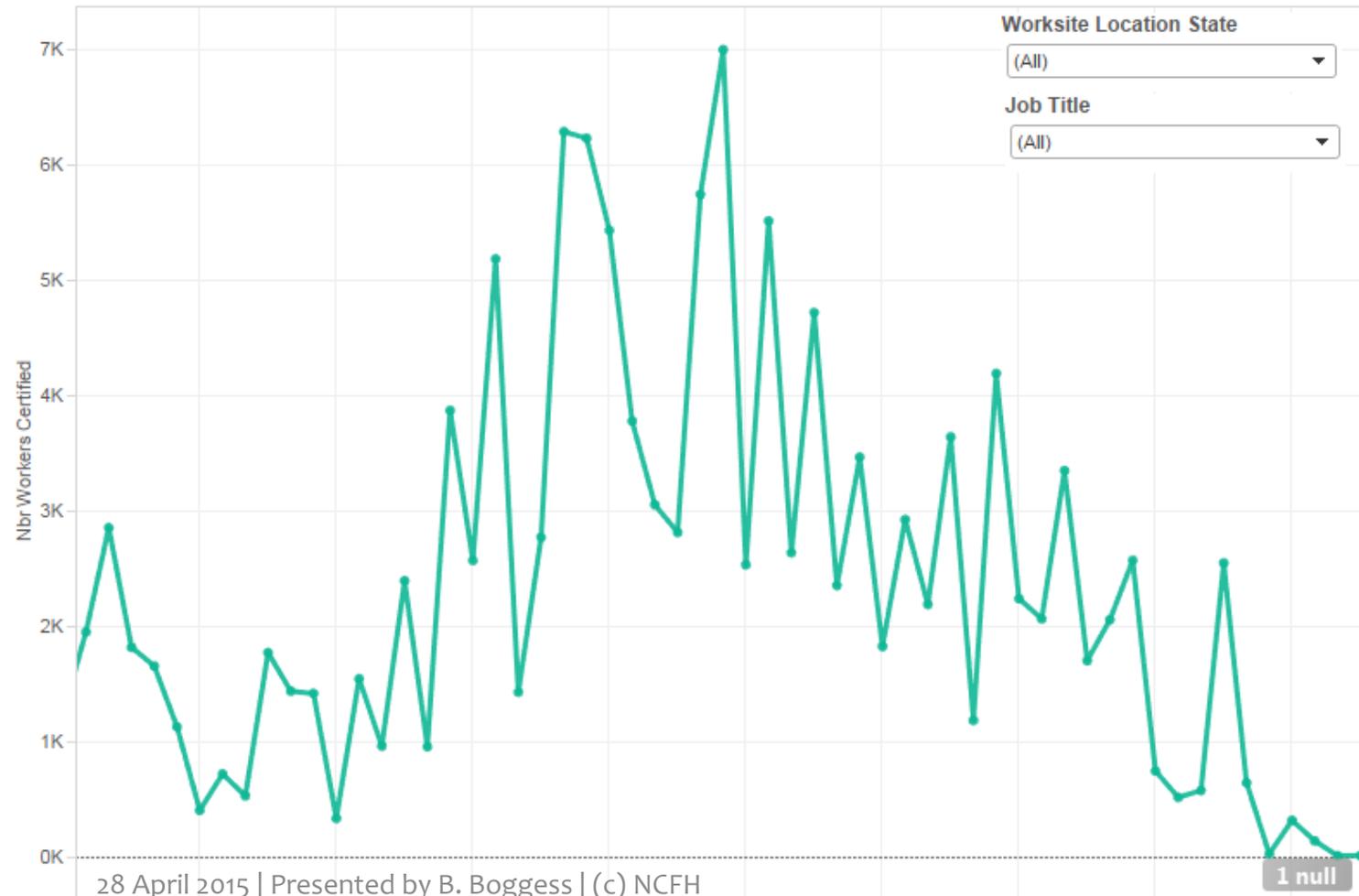
2014 H-2A Workers

< Where are H-2A workers employed? When do most H-2A workers arrive to work in the U.S.? >

New Blank Point

Duplicate

H-2A Workers Begin Date



Publish & Share!



Questions?

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bcboggess@gmail.com