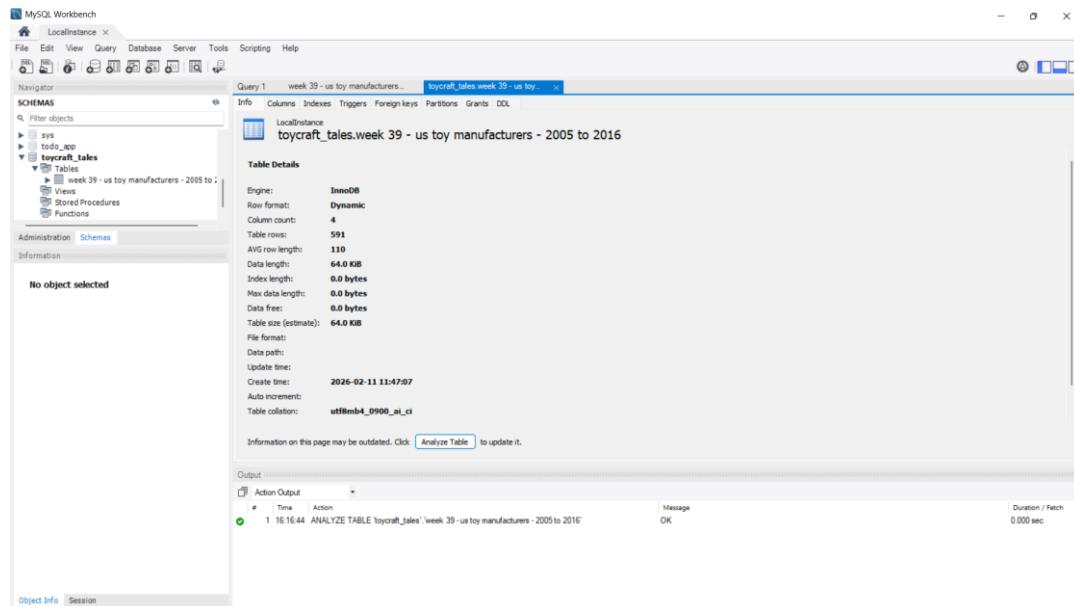


# 1. Data Connectivity

The US Toy Manufacturers dataset (2005–2016) was connected to Tableau Desktop using a CSV/Excel file. The data source was verified for correct field types (Year as dimension, Number of Manufacturers as measure, State as dimension). Live connection mode was used for dashboard creation.



The data is loaded dynamically from MySQL workbench and then it is live connection to the tableau and used for visualization.

Tableau Public - Book1

File Data Window Help

Connections Add

week 39 - us t... -> 2005 to 2016

week 39 - us toy manufacturers - 2005 to 2016 (to...

week 39 - us toy manufa...

Filters 0 | Add

Name week 39 - us toy manufacturers - 2005 to 2016 (toycraft\_tales)

Description ↴ No description available.

Fields

Type	Field Name	Phys...	Rem...
Country	week	...	Country
Index (bin)	week	...	Index

100 rows

Country	Index (bin)	Number of Manufacturers	State
United States	0	801	United States
United States	0	0	Alabama
United States	0	0	Arizona
United States	0	114	California
United States	0	0	Colorado

Go to Worksheet

Data Source Sheet 1

## 2. Data Preparation

Before creating the dashboard, several preprocessing steps were performed to ensure data accuracy and consistency. Duplicate records were checked and removed where necessary. Missing or null values were identified and handled appropriately. Column names were standardized to improve clarity and consistency.

Data types were verified to ensure correct aggregation during analysis. The Year field was formatted correctly, and the Number of Manufacturers field was confirmed as a numeric measure.

Several calculated fields were created in Tableau to enhance analytical capabilities. These included fields to identify the Peak Year (year with maximum manufacturers), Peak Year Value (maximum manufacturer count), Total Manufacturers (sum of all manufacturers), Total States (distinct count of states), and Top State (state with highest manufacturer concentration). These calculated fields helped in generating dynamic KPIs and insights.

The screenshot shows a Microsoft Excel spreadsheet titled "Week 39 - US Toy Manufacturers - 2005 to 2016 • Saved to this PC". The table has columns labeled "index", "State", "Year", and "Number of Manufacturers". The data starts at index 0 for United States in 2005 with 811 manufacturers, and continues through index 27 for New Hampshire in 2005 with 7 manufacturers. The table is sorted by state and then by year. The "Home" tab is selected in the ribbon, and the font is set to Calibri at size 11. The "Alignmen" (sic) button is visible in the ribbon.

	A	B	C	D	E	F	G	H	I
1	index	State	Year	Number of Manufacturers					
2	0	United Sta	2005	811					
3	1	Alabama	2005	3					
4	2	Arizona	2005	14					
5	3	Arkansas	2005	4					
6	4	California	2005	133					
7	5	Colorado	2005	27					
8	6	Connecticu	2005	11					
9	7	Delaware	2005	1					
10	8	Florida	2005	32					
11	9	Georgia	2005	16					
12	10	Idaho	2005	4					
13	11	Illinois	2005	43					
14	12	Indiana	2005	21					
15	13	Iowa	2005	9					
16	14	Kansas	2005	5					
17	15	Kentucky	2005	3					
18	16	Louisiana	2005	4					
19	17	Maine	2005	10					
20	18	Maryland	2005	12					
21	19	Massachu	2005	25					
22	20	Michigan	2005	27					
23	21	Minnesota	2005	17					
24	22	Mississippi	2005	4					
25	23	Missouri	2005	30					
26	24	Montana	2005	5					
27	25	Nebraska	2005	5					
28	26	Nevada	2005	10					
29	27	New Hamp	2005	7					

### 3. Business Questions Addressed

The dashboard was developed to answer key analytical questions such as:

Which year recorded the highest number of toy manufacturers?

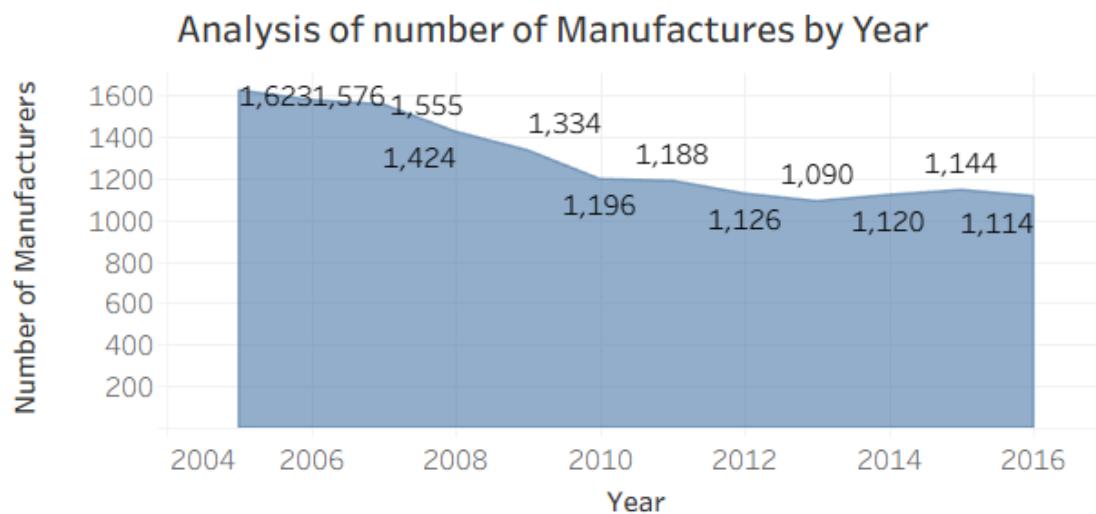
What is the overall trend of toy manufacturing from 2005 to 2016?

Which state has the highest concentration of toy manufacturers?

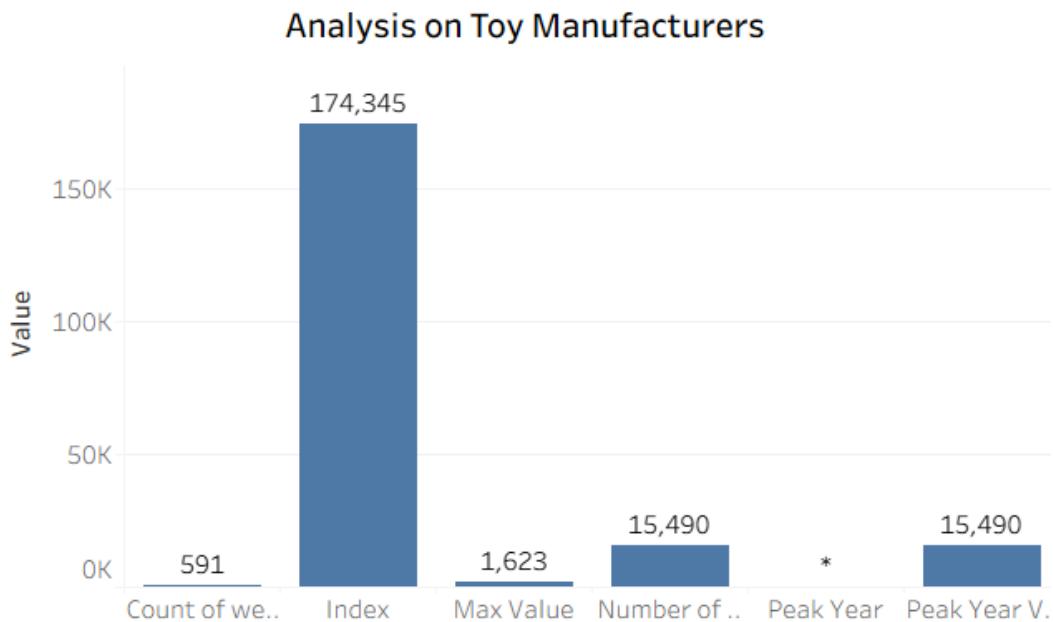
How many total manufacturers exist in the dataset?

How many states are represented in the dataset?

These questions guided the design and structure of the dashboard.

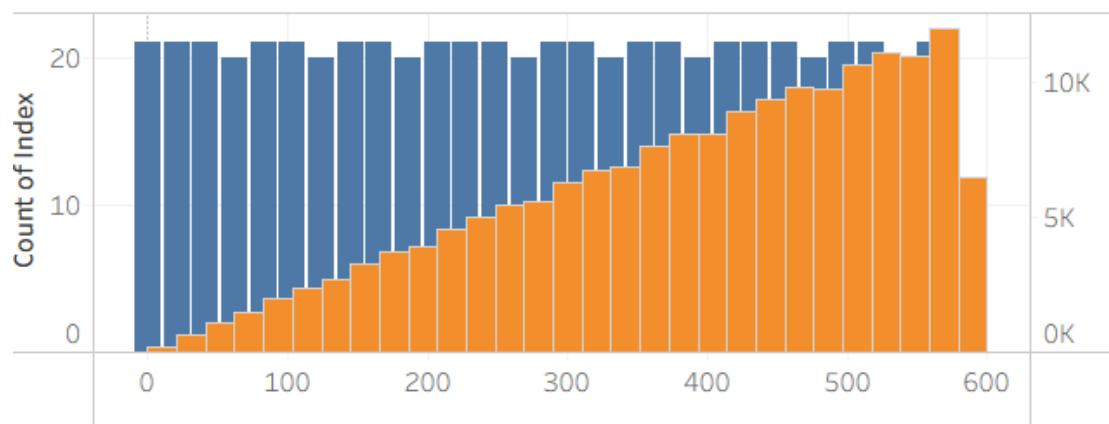


This is the Area Chart which is used for analysis of number of manufacturers by Year.



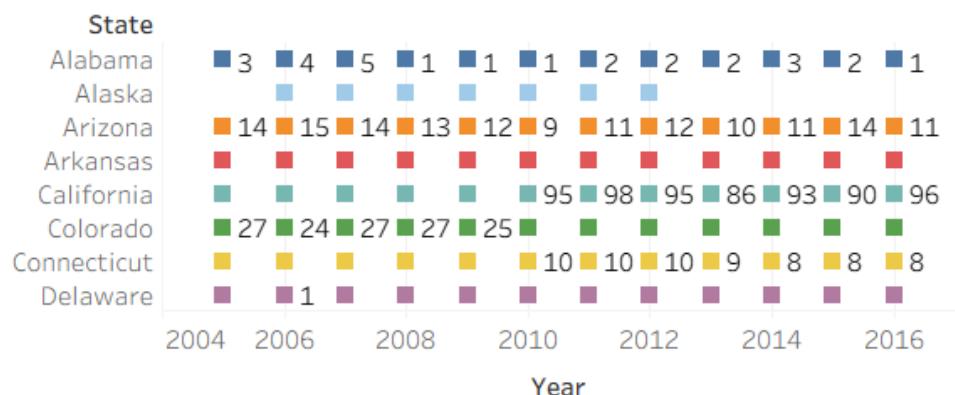
This is Bar Chart for the Analysis if Toy Manufacturers based on entire dataset

### Analysis on Toy Manufacturers by Index



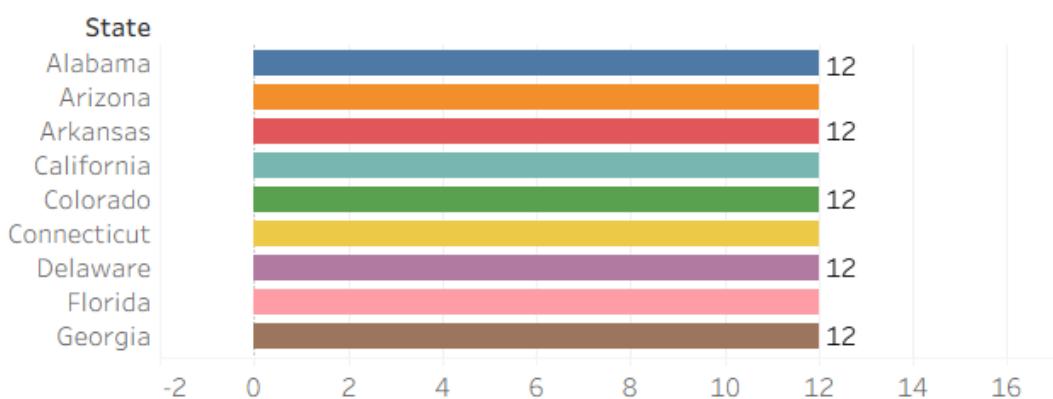
This Graph is about the Analysis on Toy Manufacturers by Index

### State-wise Manufacturers Trend by Year



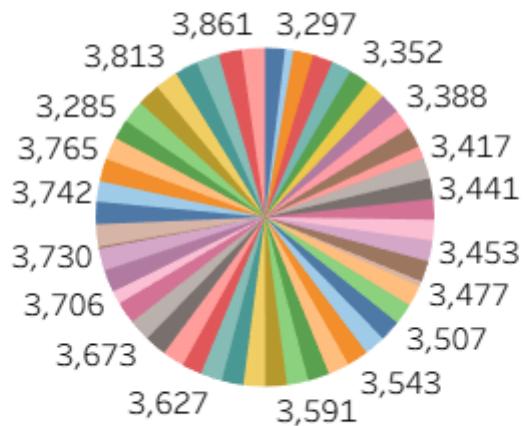
This Graph is State – wise manufacturers Trend by Year

### Top 10 State Toy Manufacturers in US States



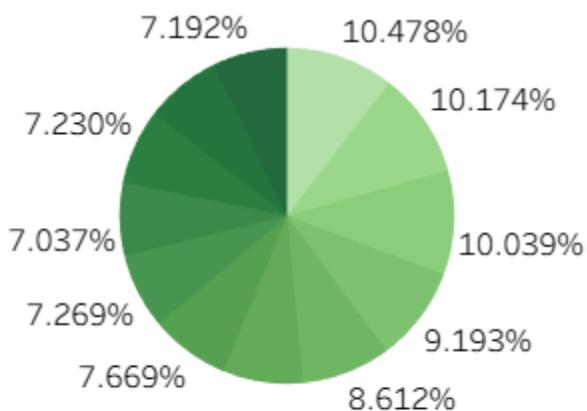
This Graph is about the Top 10 State Toy Manufacturers in US States

## Analysis of Manufacturers in the US State by Index



This Pie Chart is about the Analysis of Manufacturers in the US State

## Year-wise Share of Toy Manufacturers (2005-2016)



This Pie Chart is about the Year – wise Share of Toy Manufacturers