

TSA Insurance claim

TSA dataset is Property and injury claims filed from 2002 – 2015.

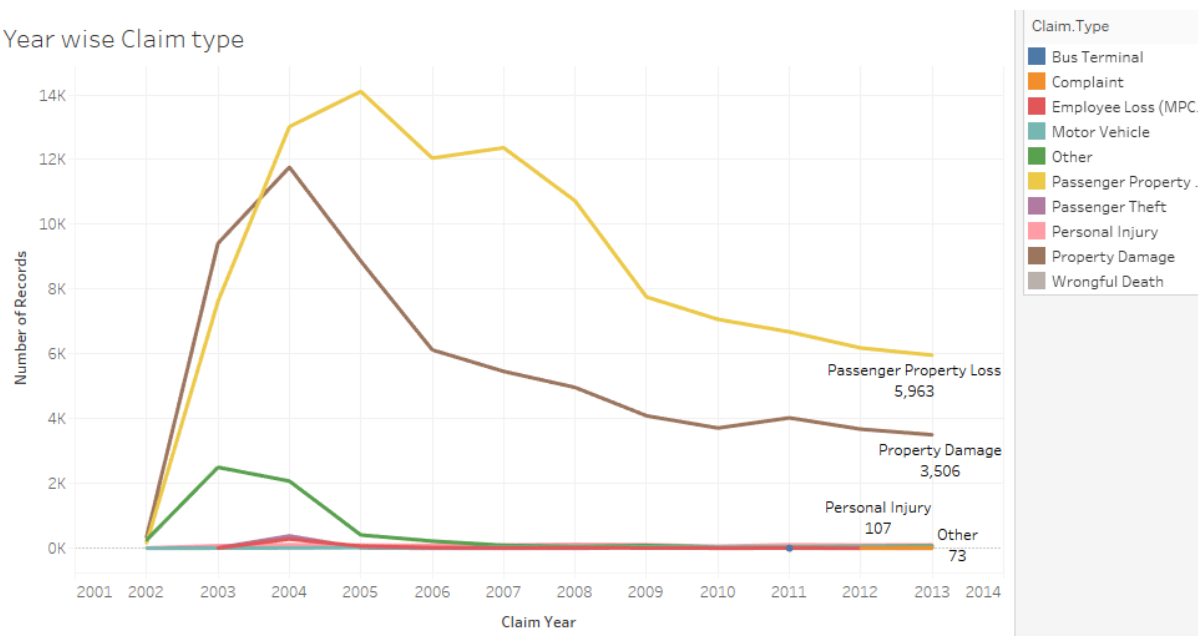
Context: Claims are generally filed against TSA for personal injuries and lost or damaged property during screenings and they keep records of every claim!

Features: Claim Number , Date Received , Incident Date , Airport Code , Airport Name , Airline Name , Claim Type , Claim Site , Item , Claim Amount , Status , Close Amount , Disposition

```
> str(train)
'data.frame': 130353 obs. of 13 variables:
 $ Airport.Code      : Factor w/ 426 levels "ABE","ABI","ABQ",...: 130 366 389 266 254 69 312 65 25
 $ Airport.Name      : Factor w/ 426 levels "Aberdeen Regional Airport",...: 274 355 206 247 288 4 3
 $ Airline.Name      : Factor w/ 194 levels "Aer Lingus","Aero California",...: 73 138 41 41 80 29 1
 $ Claim.Type        : Factor w/ 7 levels "Employee Loss (MPCECA)",...: 7 7 7 7 7 4 4 3 4 4 ...
 $ Claim.Site        : Factor w/ 5 levels "Bus Station",...: 3 2 2 3 3 2 2 3 3 2 ...
 $ Item              : Factor w/ 31 levels "Artificial flowers & Fruits",...: 23 20 24 20 13 23 21 7
 $ Claim.Amount      : num 19755 4281 15961 25313 32792 ...
 $ Status            : Factor w/ 6 levels "Approved","Denied",...: 1 6 6 1 1 6 1 1 2 1 ...
 $ Close.Amount      : num 9643 12191 6426 12191 15887 ...
 $ Disposition       : Factor w/ 3 levels "Approve in Full",...: 1 3 3 1 1 3 1 1 2 1 ...
 $ Date.Received_new: Date, format: "2002-01-04" "2002-02-02" ...
 $ Incident.Date_new: Date, format: "2002-12-12" "2004-01-16" ...
 $ claim_year        : Factor w/ 15 levels "1994","1996",...: 4 4 4 4 4 4 4 4 4 4 ...
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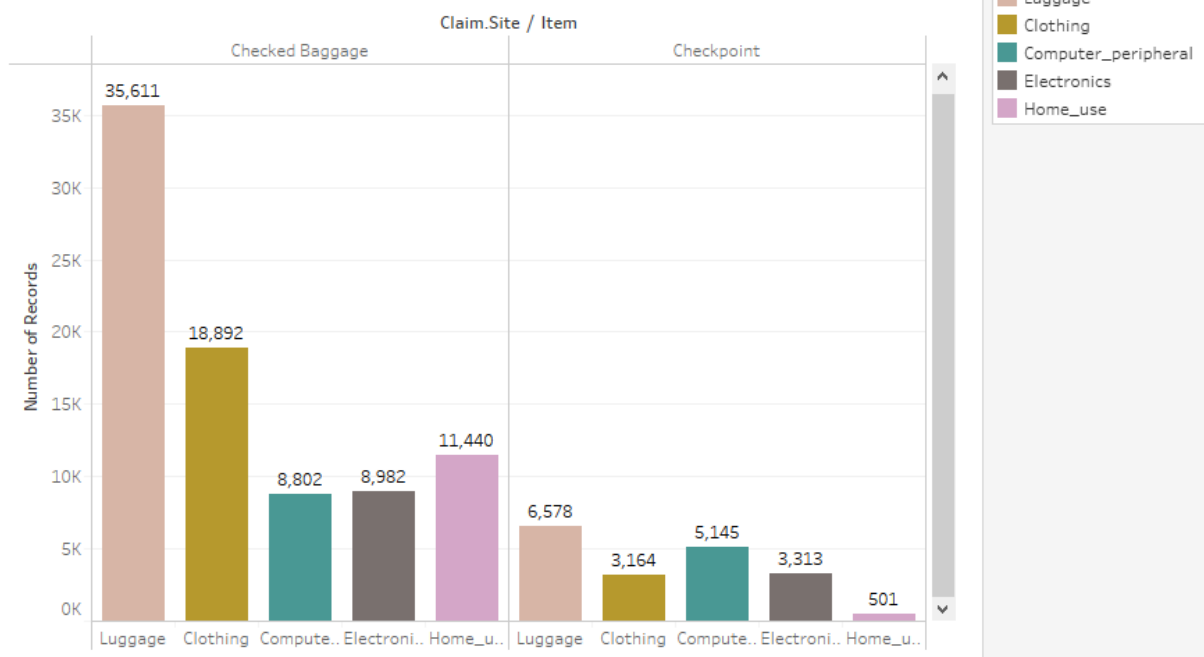
Exploratory Data Analysis:

Year wise Claim type



There are 4 different Claim Sites, out of which "Checked Baggage" and "Checkpoint" constitute the most. Out of these 2, the top items claimed in these sites are:

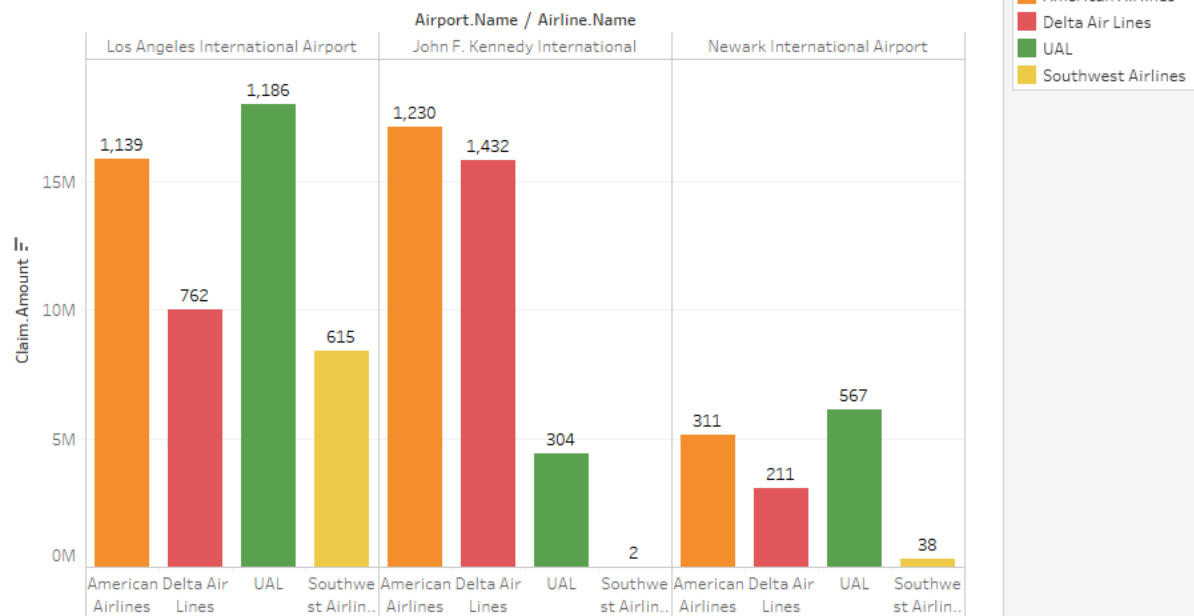
Most Items claimed



We have noticed that most of the claims are applied from 3 main Airports –

LA International, JFK & Newark International. There are 4 top Airlines which explains the maximum items applied for claim –

Claim by Airport-Airline



There are multiple Airline accidents / incidents since 2000:

American Airlines Flight 587, an **Airbus A300** crashed a few kilometers away from JFK airport, while en route to **Santo Domingo** in the **Dominican Republic**. The crash killed all 260 people on the plane and five people on the ground.

Alaska Airlines Flight 261 went down on January 31, 2000, in the **Pacific Ocean** about 2.7 miles (4.3 km) north of **Anacapa Island, California**. The two pilots, three cabin crew members, and 83 passengers on board were killed, and the aircraft was destroyed

Southwest Airlines Flight 1248 slid off the runway while landing in a snowstorm at **Chicago Midway Airport** on December 8, 2005. The aircraft crashed into automobile traffic, killing a 6-year-old boy in a car.

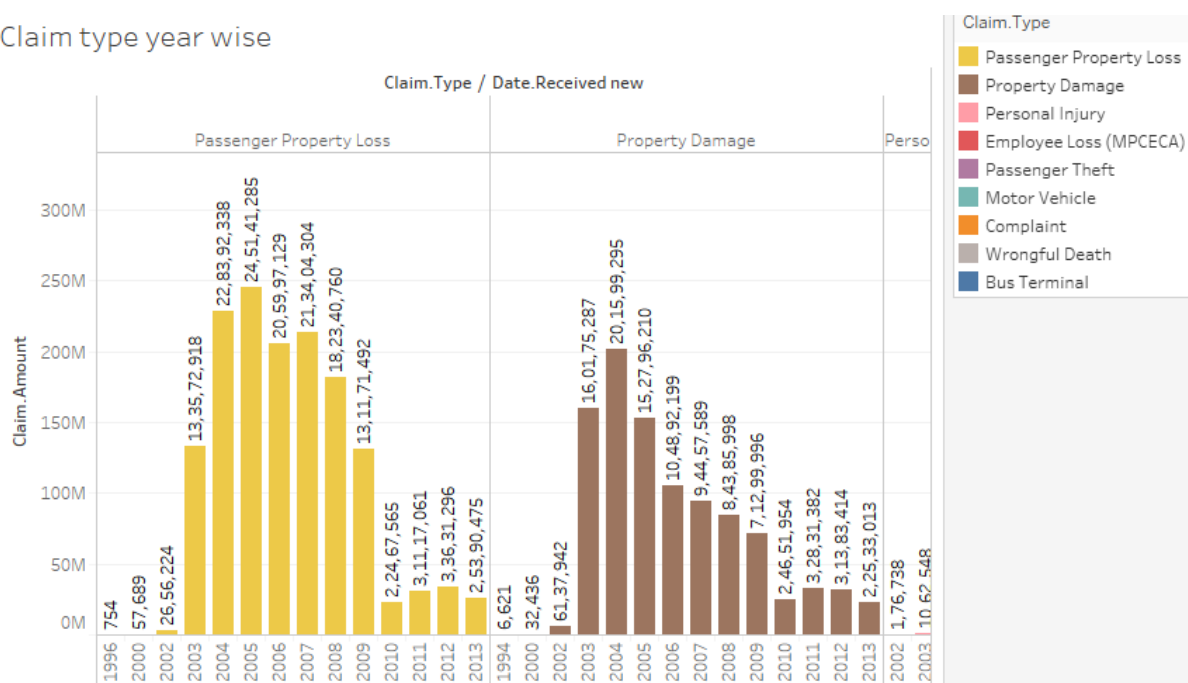
Northwest Airlines Flight 253 was the target of the attempted **al-Qaida** "Christmas Day bombing" on December 25, 2009.

American Airlines Flight 587 crashed in **Belle Harbor, Queens**, New York City after takeoff from **John F. Kennedy International Airport** on 12 November 2001.

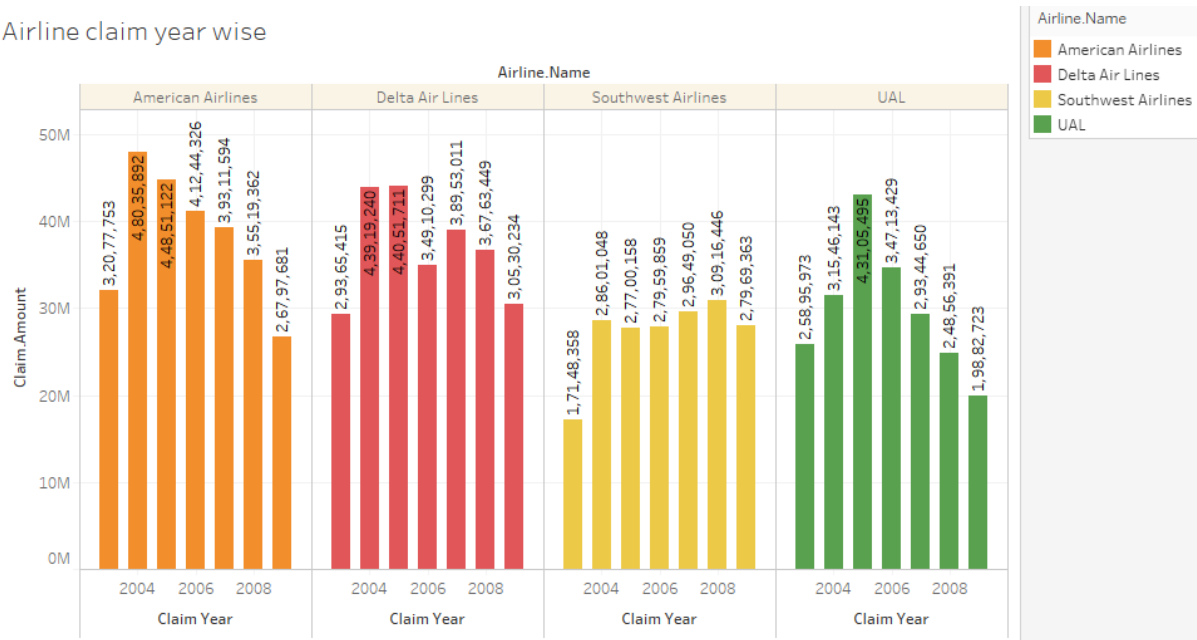
American Airlines Flight 723 crashed in **Colonie, New York**, while attempting to land at **Albany Airport**. All 28 people on board perished.

JetBlue Airways Flight 292 executed an emergency landing on September 21, 2005, in **Los Angeles International Airport** after the nose wheels of the landing gear jammed in an abnormal position.

Claim type year wise



Airline claim year wise



Claim Amt vs Close Amt

