

CEE 3804 – Computer Applications in CEE

Assignment 7 Solution

Problem 1

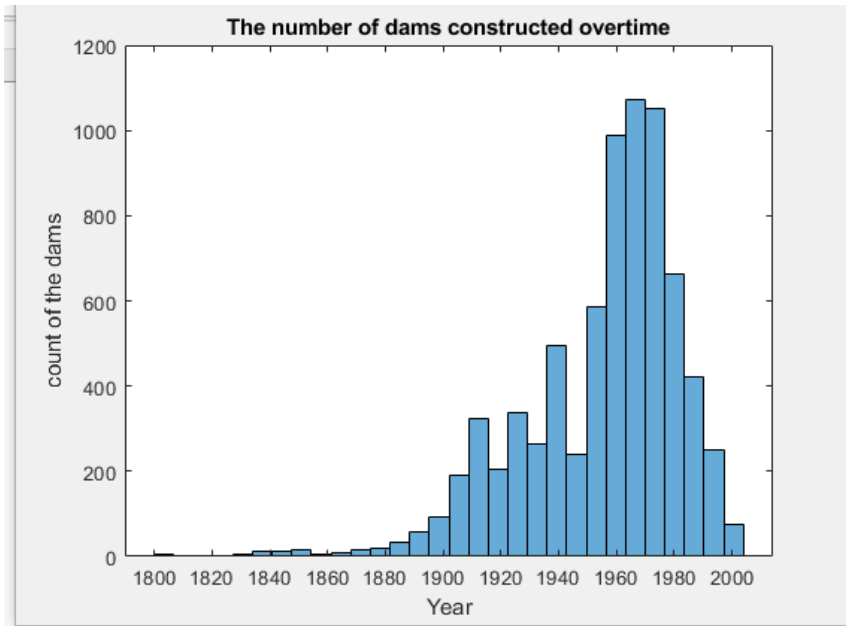
Task 2

The first 20 dams with significant hazard levels are:

"BRONCE"
"RESERVOIR 510"
"UPPER HALEMANO RESERVOIR"
"OPAEULA 01 RESERVOIR"
"WAIKOLOI RESERVOIR"
"MIMINO RESERVOIR"
"KANEHA RESERVOIR"
"STRUCTURE NO. 39"
"RETAMA RESERVOIR LEVEE"
"DELTA LAKE UNIT NO 2 LEVEE"
"STRUCTURE NO. 41"
"STRUCTURE 49"
"FORT GREEN FG-1"
"FORT GREEN FG-2"
"FORT GREEN FG-3"
"GARDINIER AREA E"
"KINGSFORD K-3"
"PHOSPHORIA P-2"
"STRUCTURE 65"
"NORALYN N-11A"

Average Drain Area with Significant hazard level is 3903.0676 sqft

Task 3



Task 4

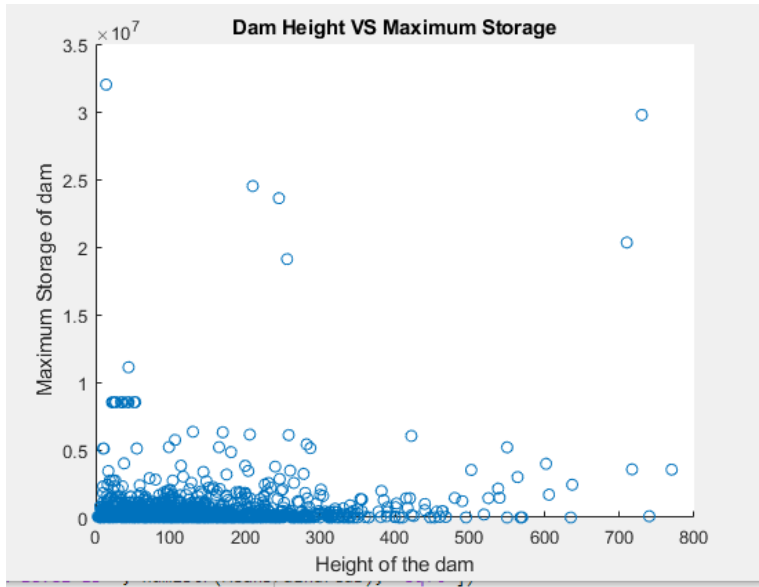
number of dams greater than 100 ft is 1345

The average height of the dams greater than 100 ft is 175.5855 ft

The first 10 dams name with a height greater than 100ft are:

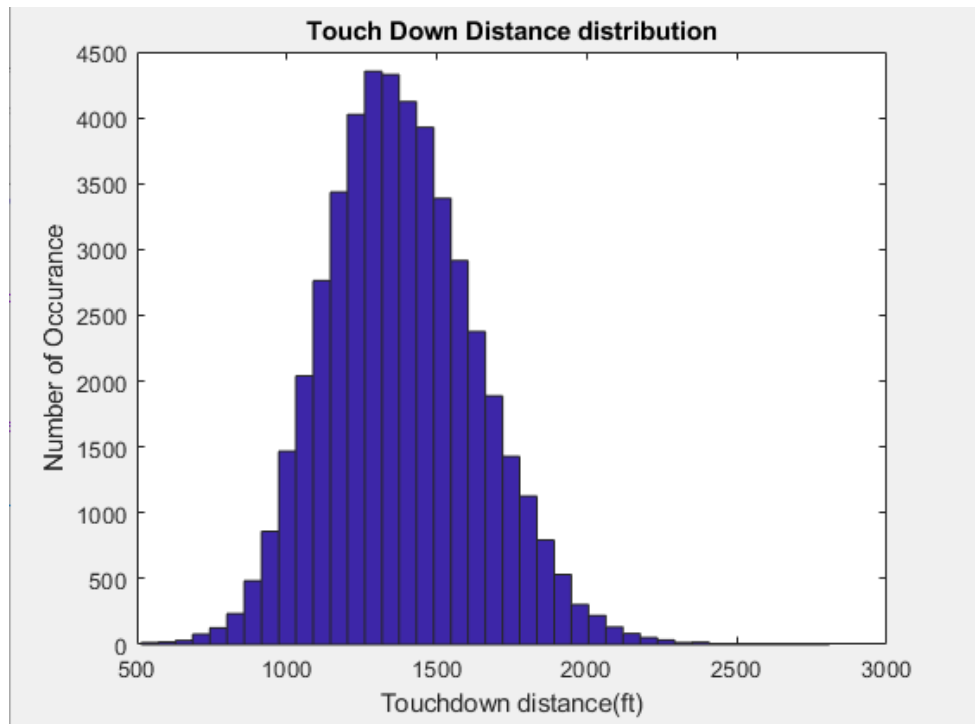
- "PATILLAS"
- "CARITE"
- "ANTONIO LUCCHETTI"
- "GUAYABAL"
- "TOA VACA DAM"
- "GARZAS"
- "GUINEO"
- "CIDRA"
- "MATRULLAS"
- "GUAYO"

Task 5



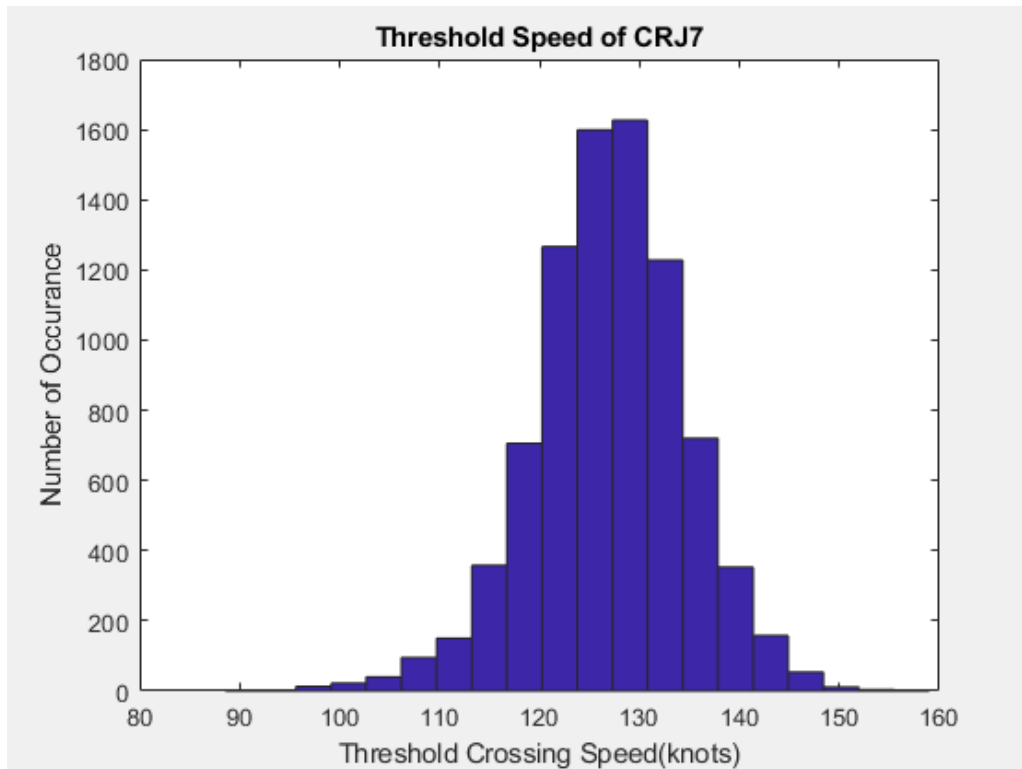
Problem 2

Task 2

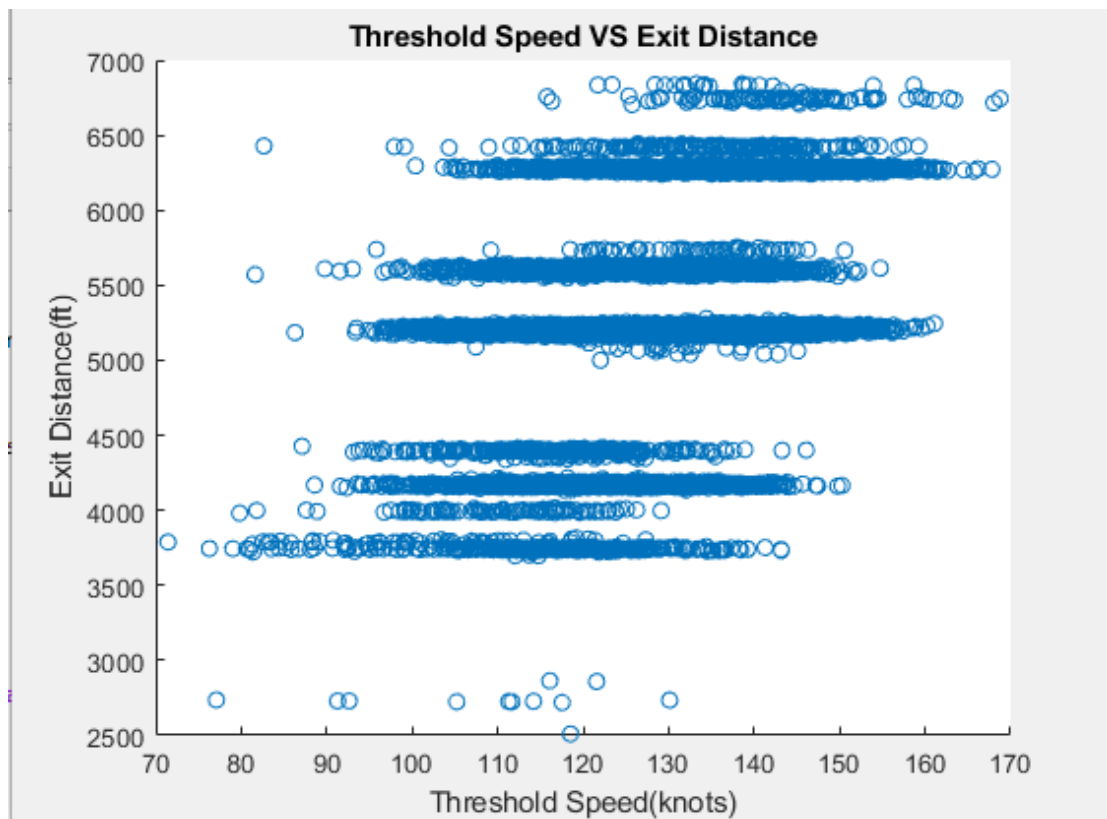


The most repeated value of touchdown distance is 1300ft

Task 3



Task 4



Task 5

Percent of CRJ7 with threshold crossing speed greater than 118 is 89.4374%

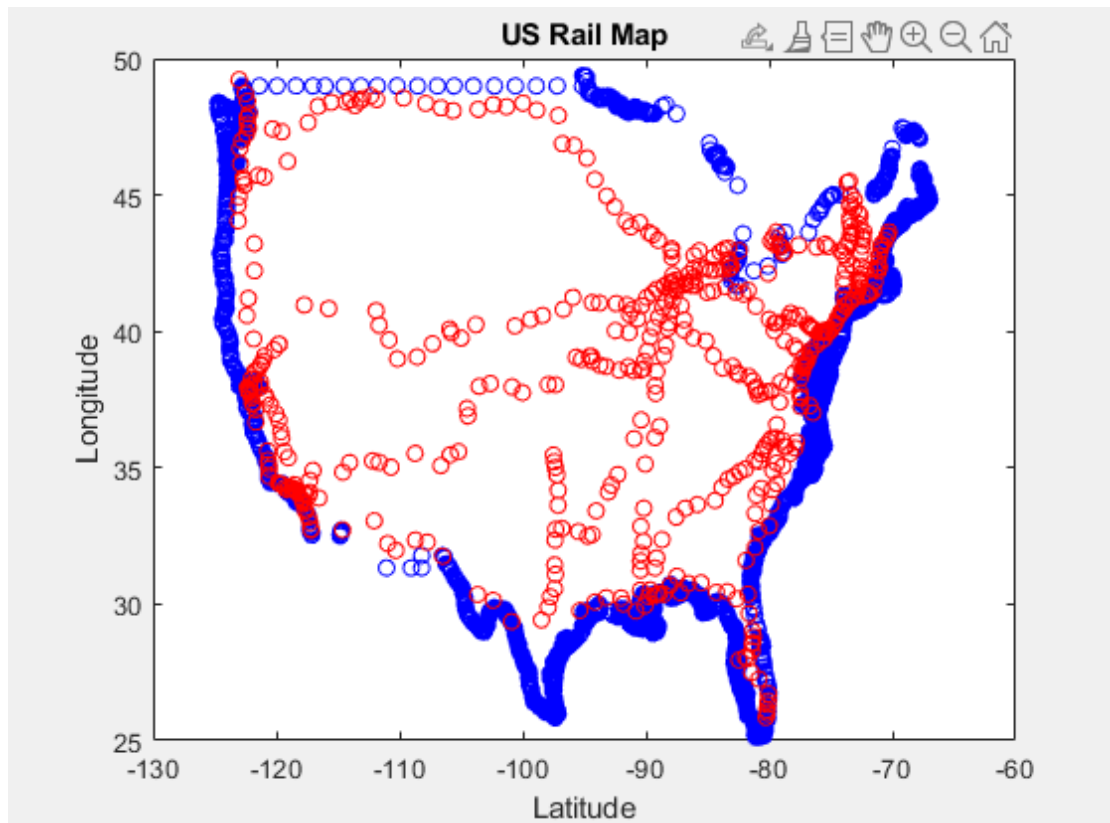
Problem 3

Task 1

The Top 10 bus stations are:

```
Top10BusStation =  
  
10x1 string array  
  
"HWC"  
"IDO"  
"JFK"  
"JMN"  
"JVL"  
"KGC"  
"KGG"  
"KGS"  
"KIL"  
"KLK"
```

Task 3



Task 4

The top 10 rail stations in Virginia are:

```
TOP10VAStation =  
  
10×1 string array  
  
"CVS"  
"DAN"  
"FBG"  
"FRS"  
"LOR"  
"ALX"  
"ASD"  
"CLF"  
"CLP"  
"LYH"
```

Task 5

