



Increasing Aviation in South Dakota and the Pilot Source Study

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Topics



1

- 2015 Pilot Source Study
<http://www.pilotsourcestudy.org/>

2

- Status of pilot training in SD

3

- Increasing aviation in SD

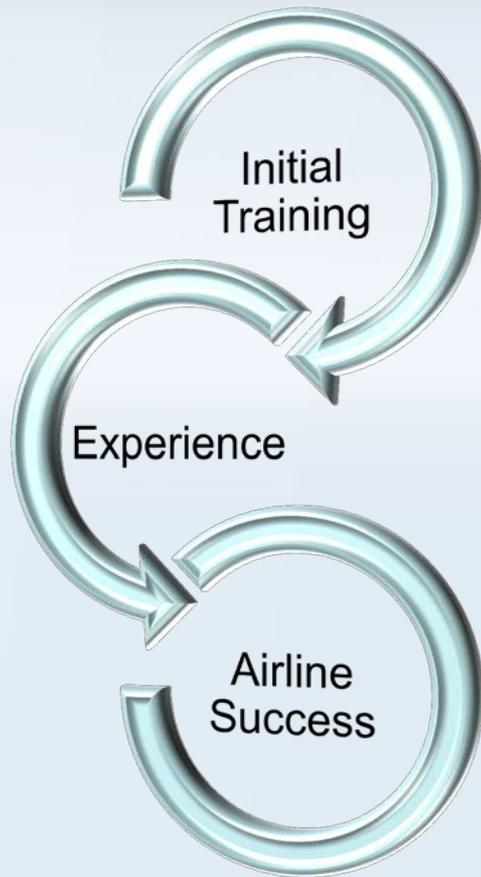


2015 Pilot Source Study



- 7 researchers
- 12,806 pilots records
 - 6,072 prior to 8/2013
 - 6,734 after 8/2013
- How does the new ATP rules affect pilots?
- *Airline Safety and Federal Aviation Administration Extension Act of 2010*
- SIC from Commercial to ATP
- 250 hrs to 1,500hrs

2015 Pilot Source Study



- How do pilots backgrounds impact training?
- NOT safety related study, only pilot source study

Inputs vs. Outcomes



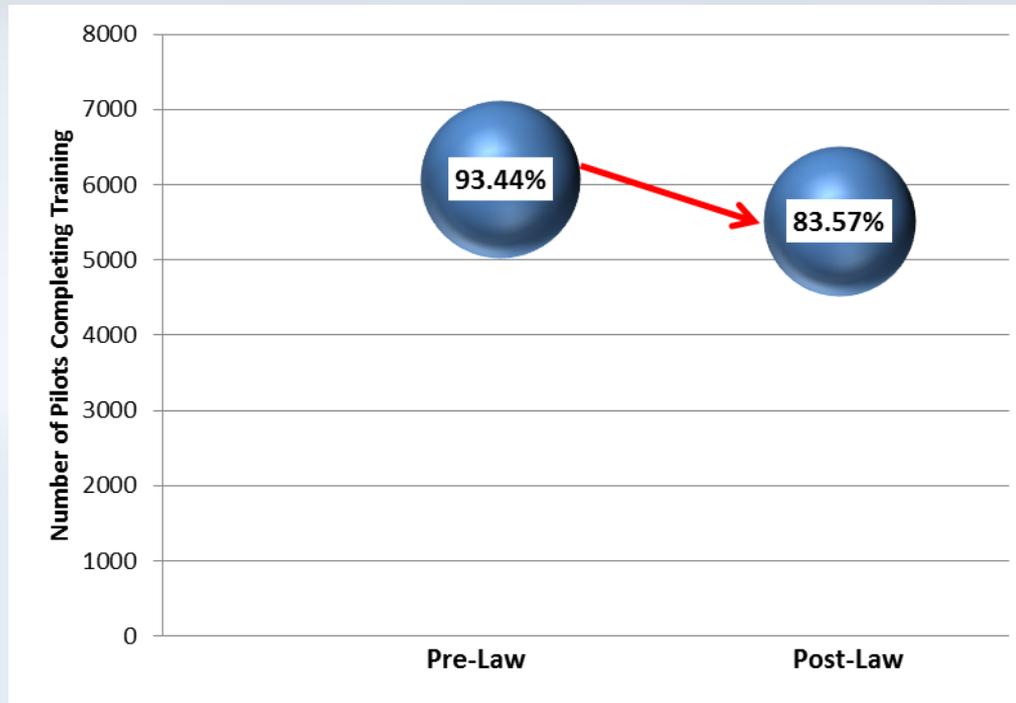
Variables

- Education
 - HS, AA, BS, AABI
- Primary training
 - (Part 61/141 / Military / other)
- CFI
 - Dual given, status
- Age
- Total time, Inst, Multi, x/c, turbine, etc

Outcomes

1. Extra training events
2. Completions
3. Extra IOE
4. Extra recurrent

Pre-Law & Post-Law Completed Training



Completions: The Post-Law pilots had a **9.87% increase** in non-completions.

$$N = 11,584, \chi^2(1) = 281.991, p < .001, \Phi = -.156, p < .001$$



Total Additional Cost to Regional Airlines

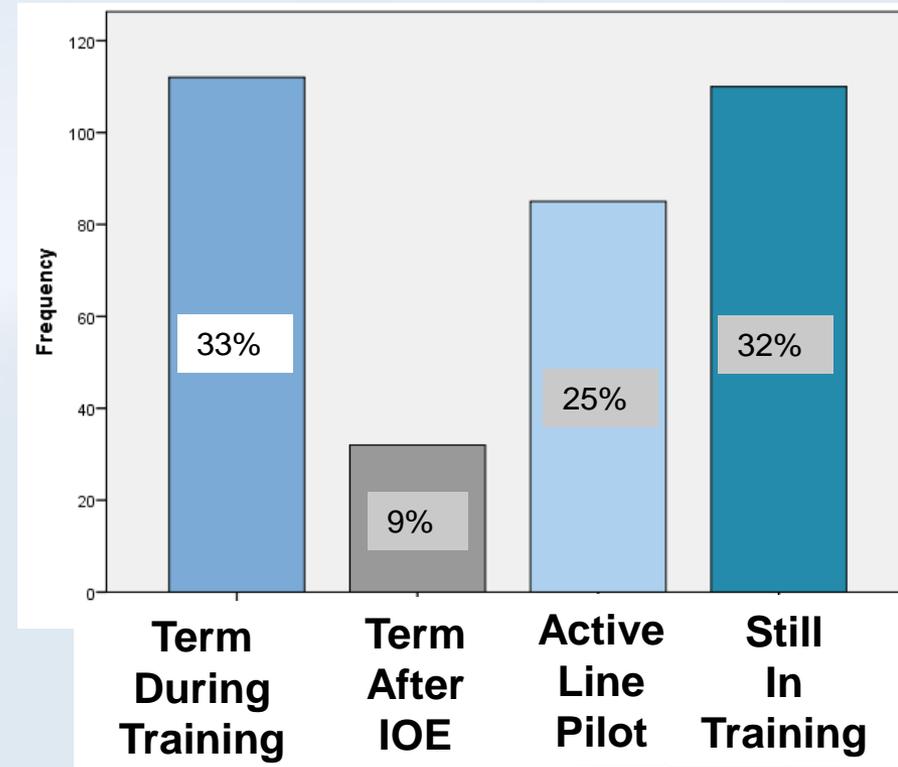
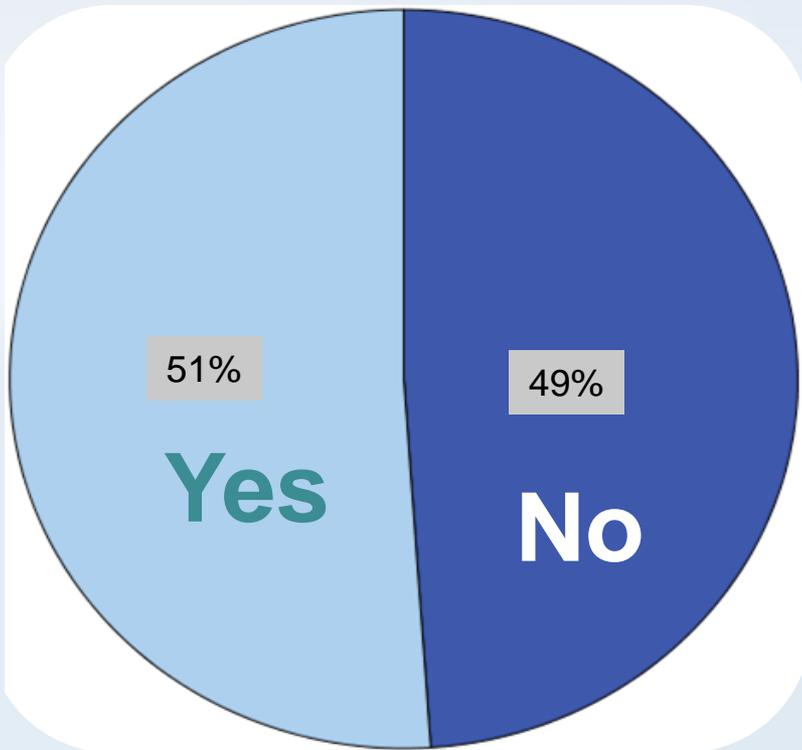
Total estimated cost of additional **non-completions**
\$20,924,516 (544 pilots)

Total estimated cost of additional **extra training events**
\$ 3,960,745

Grand Total = \$24,885,263

Approximate cost per terminated pilot
\$45,745

Part 135 Completions



Pilot Source Findings



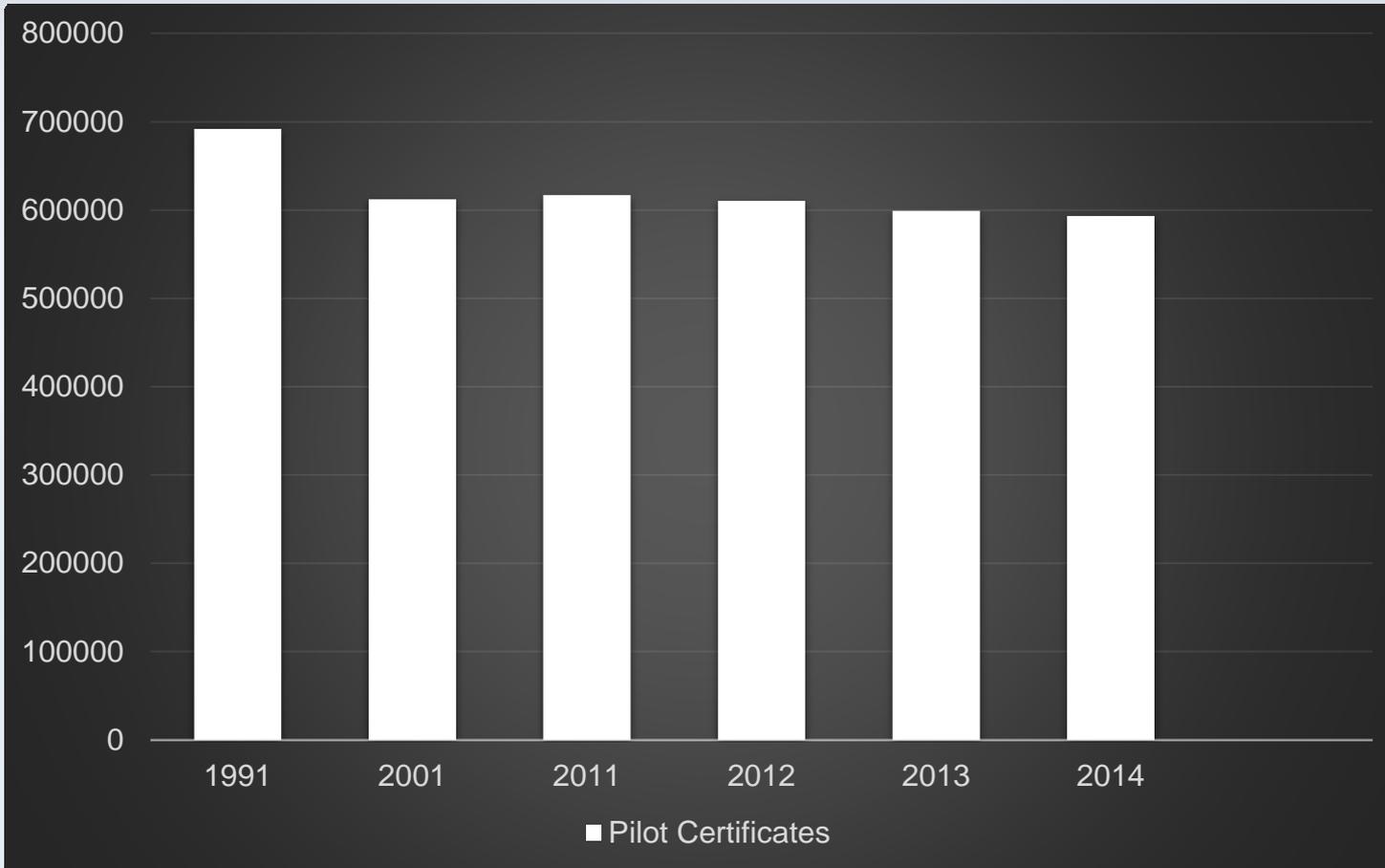
- Inst/Comm/CFI in Military/College
- College
 - Bachelor program
 - AABI important
 - Aviation degree
 - <4yrs old
 - R-ATP authorized
- <1,500TT
- Military



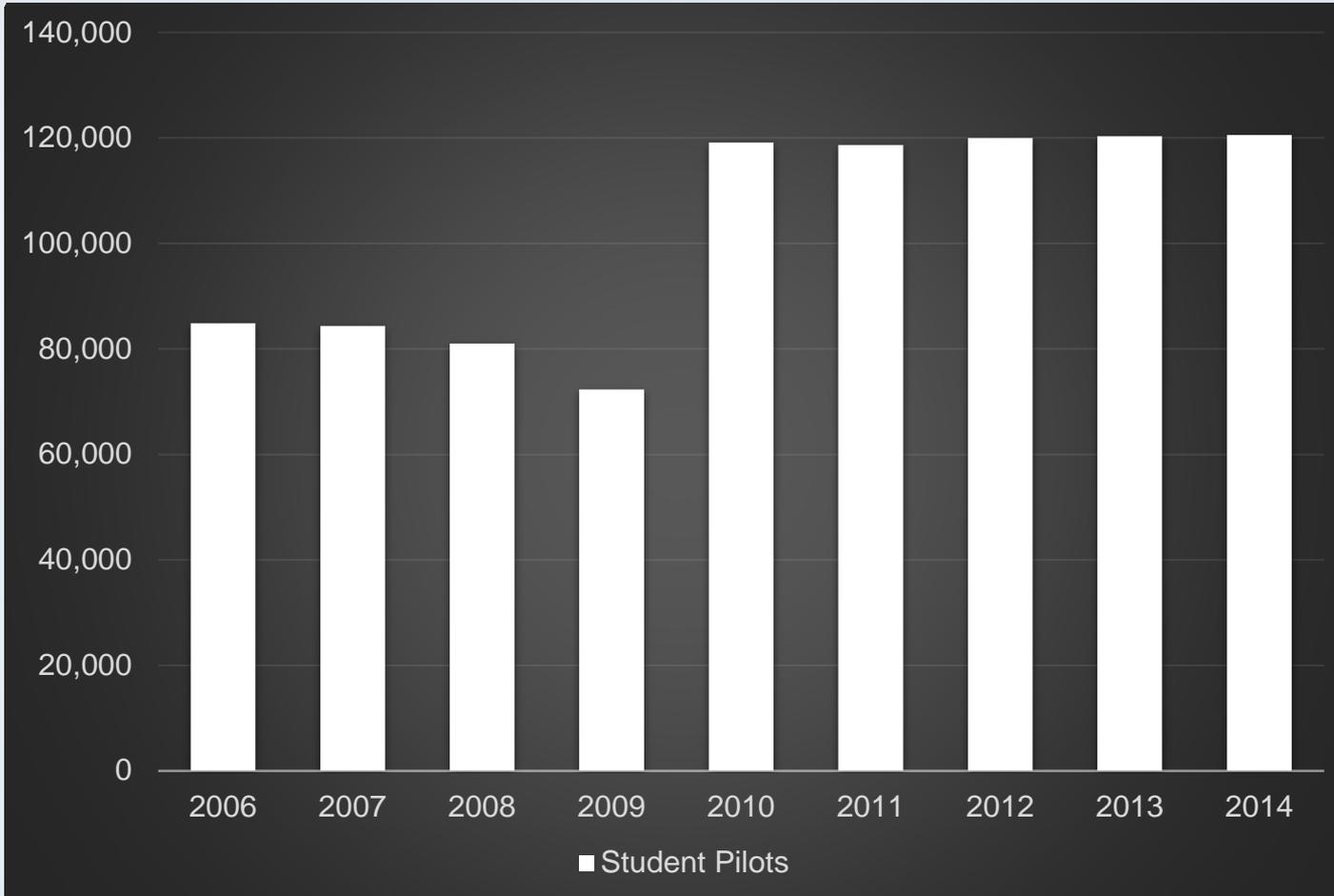


How are we doing
training the next
generation?

Total Pilots in US

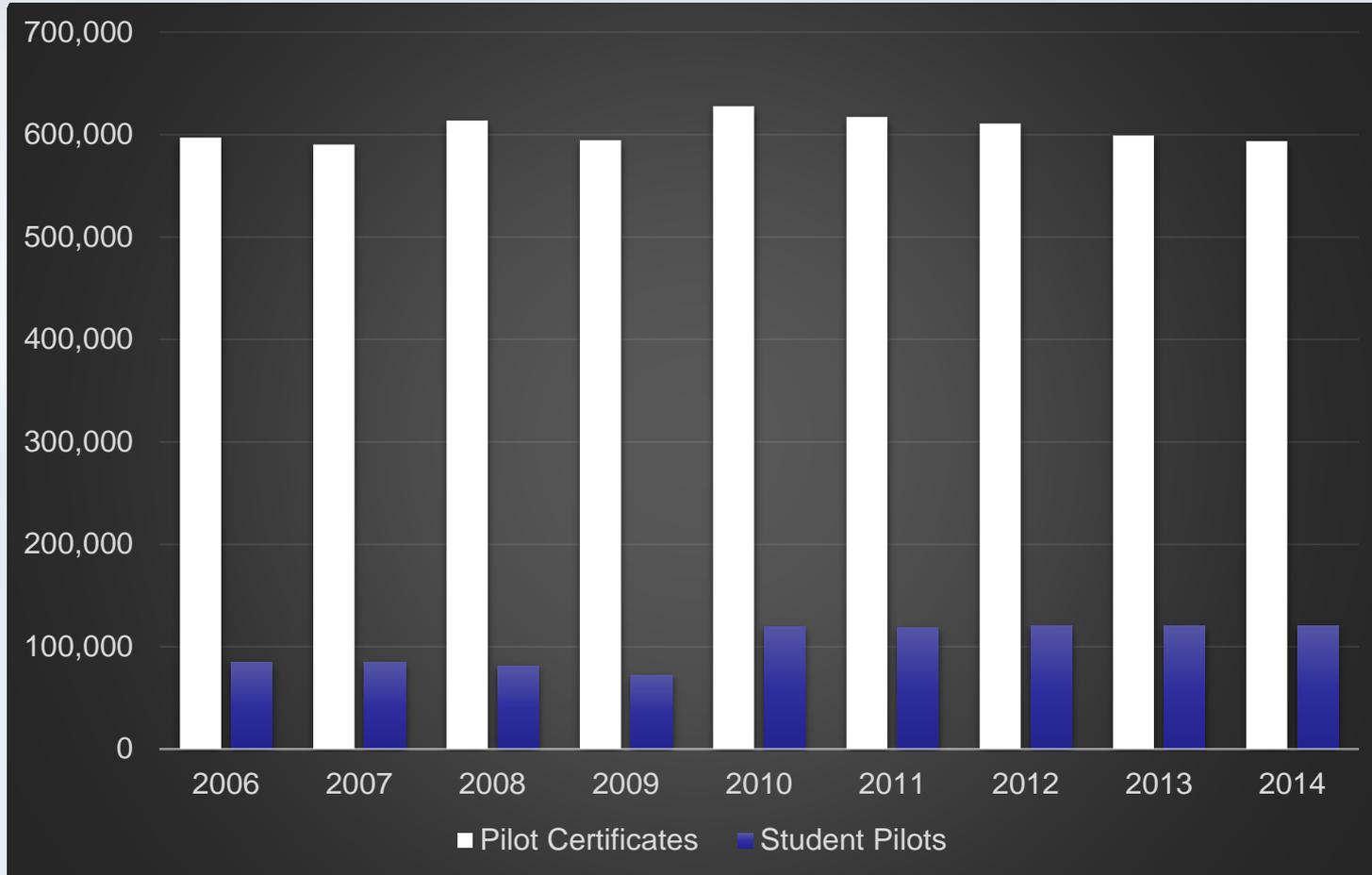


Student Pilots

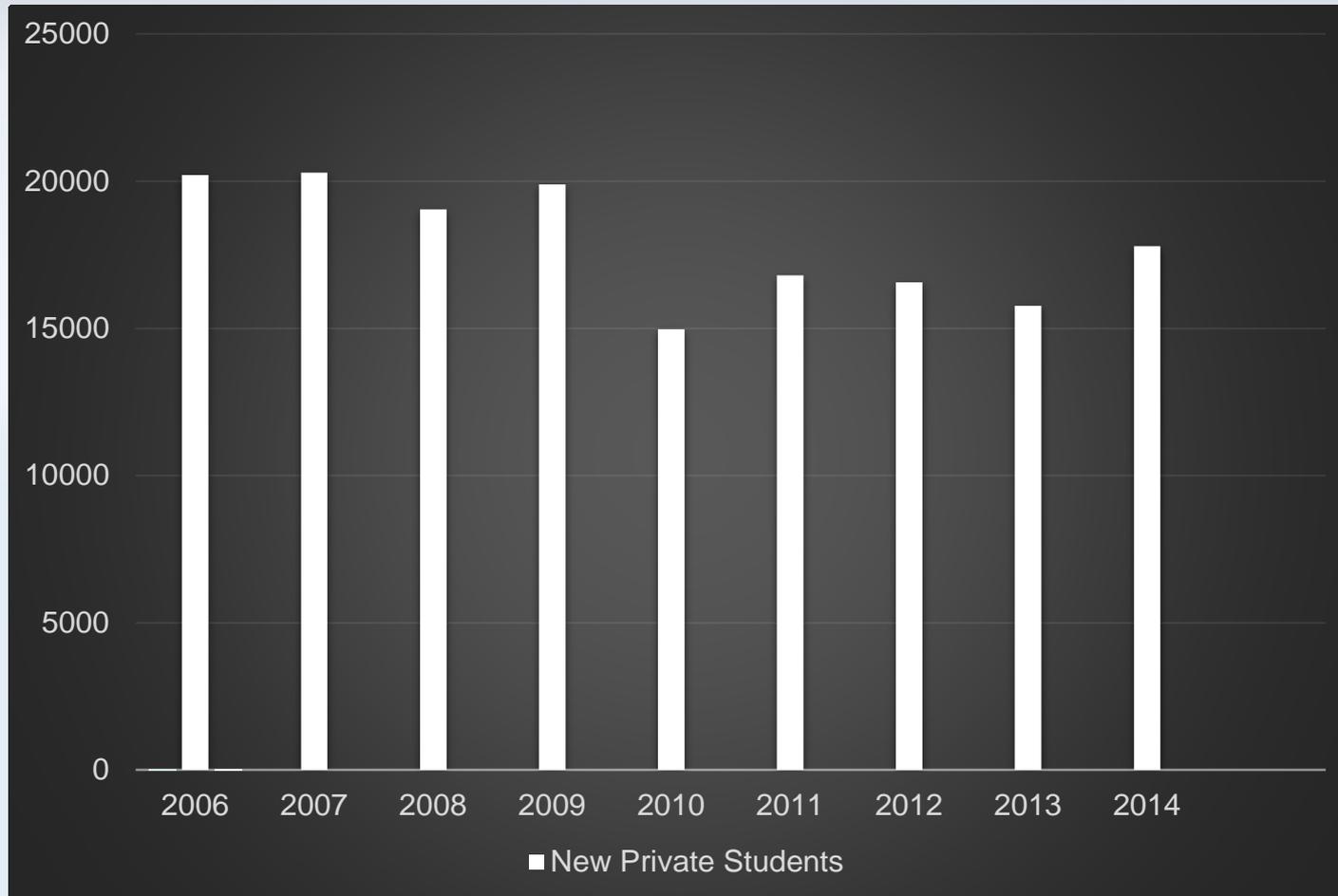


*2010 increase in Student Pilot certificate from 36 to 60 months <40yrs old

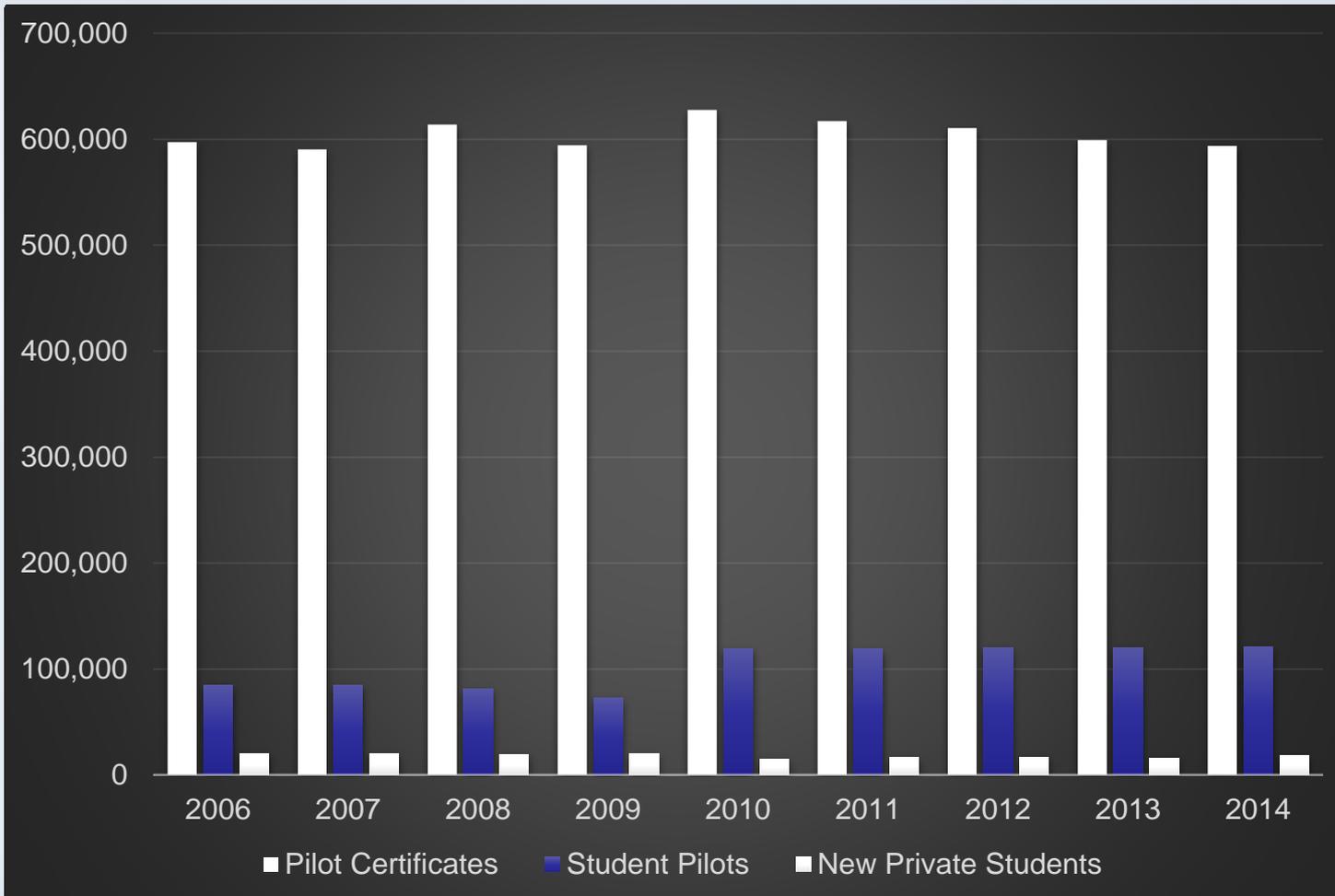
Total Pilots + Student Pilots



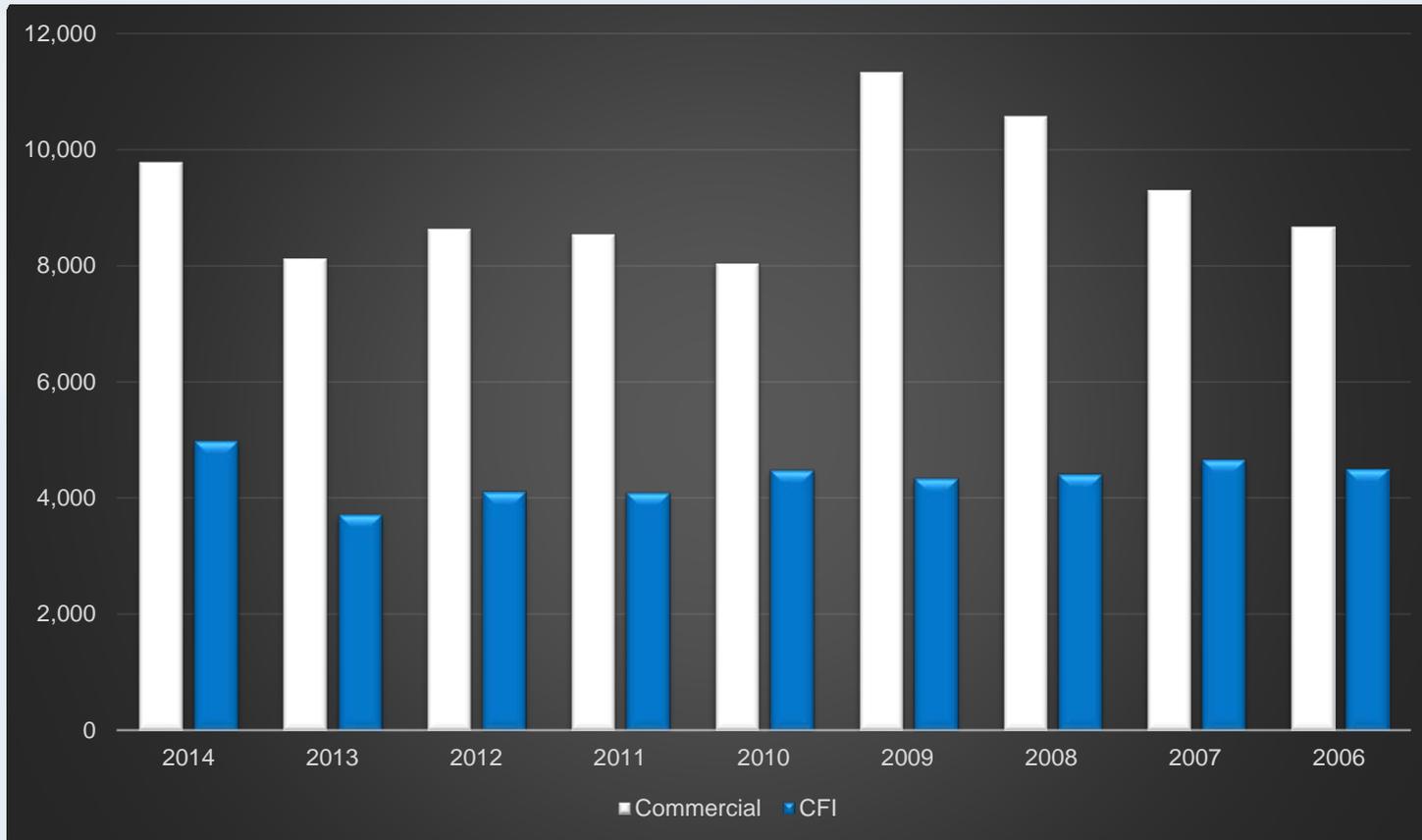
Private Pilots Issued



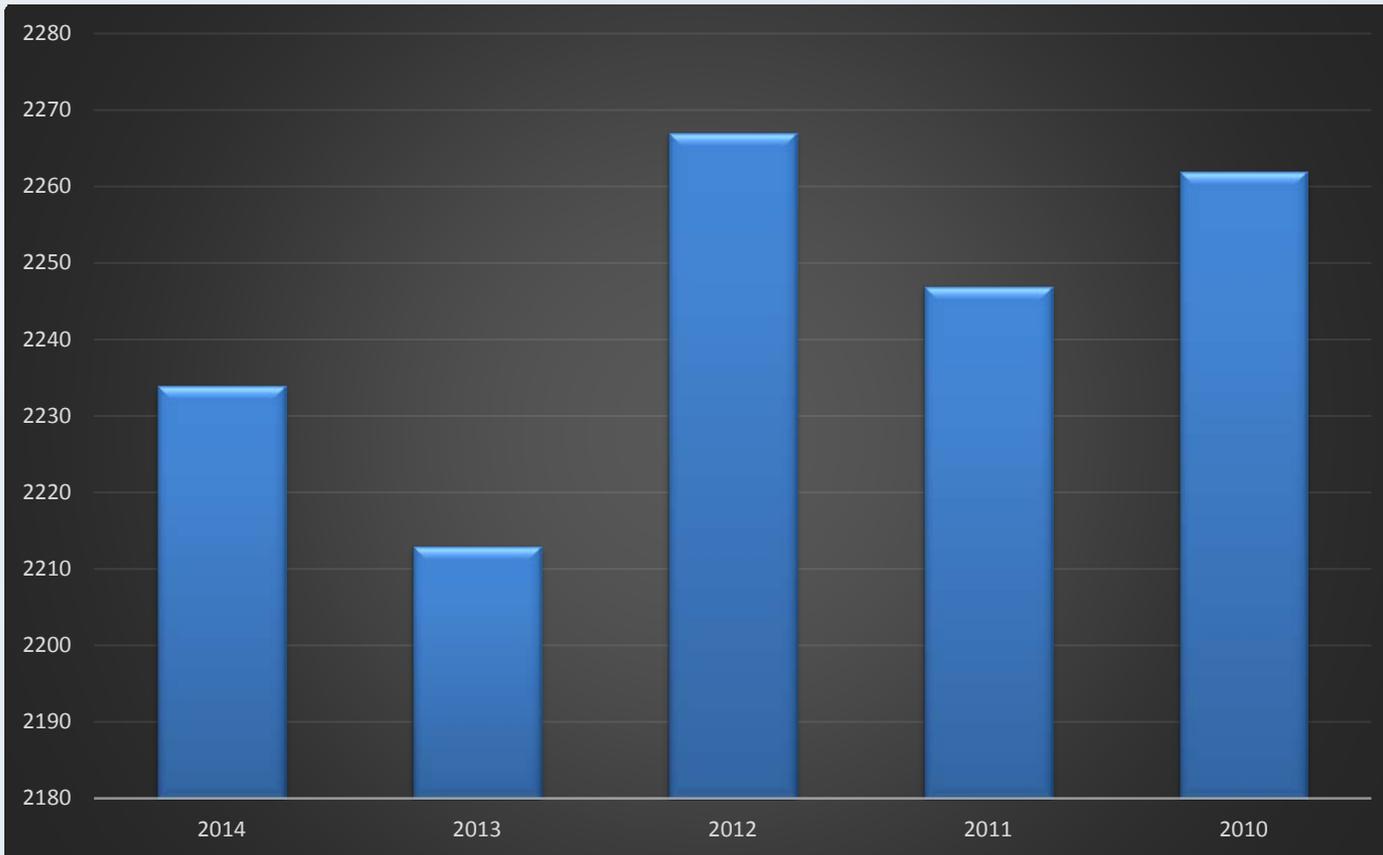
Total Pilots/Student Pilots/ Private Pilots



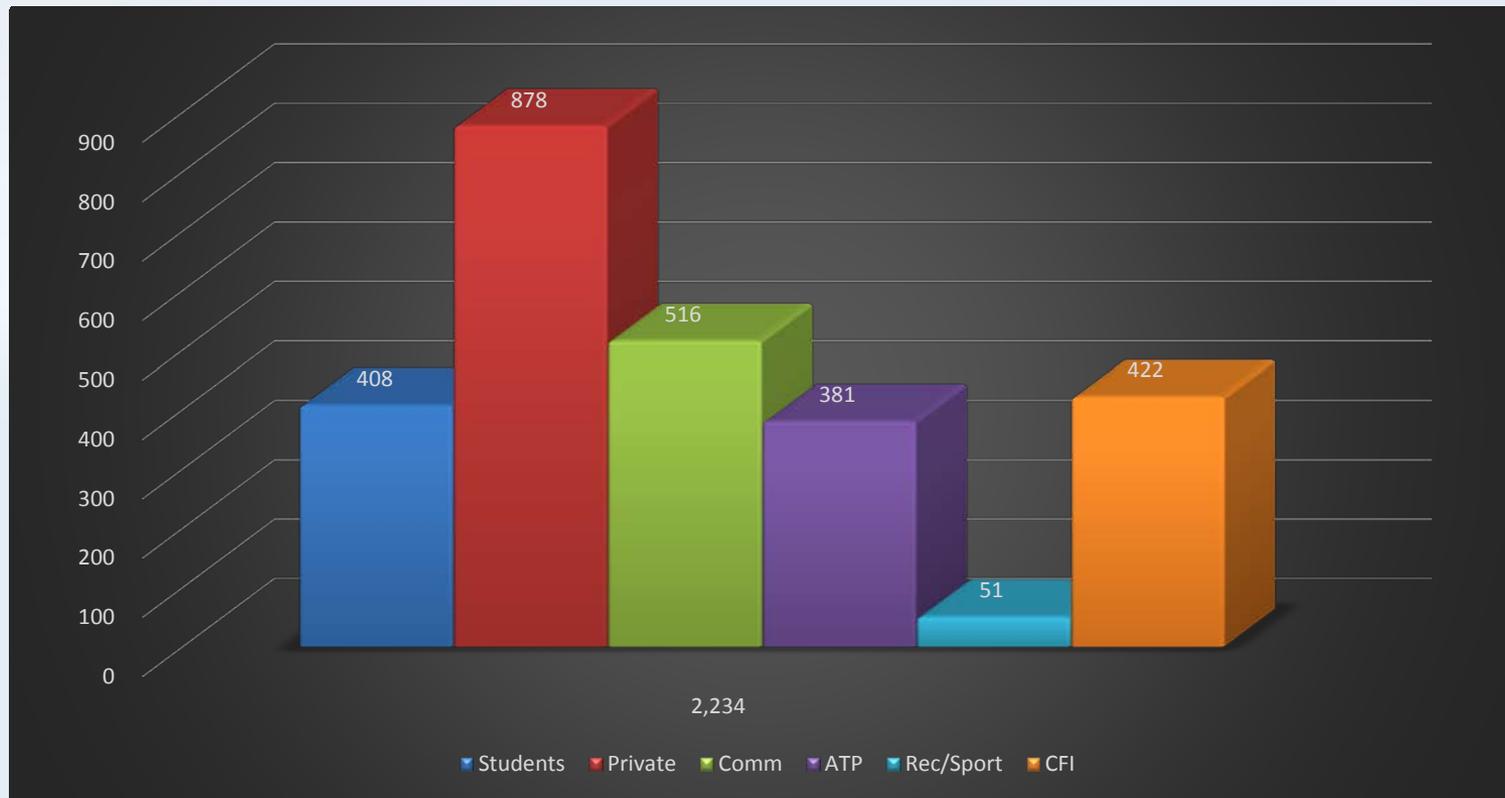
Commercial/ CFI issued per year



South Dakota Pilots



2014 - 2,234 pilots



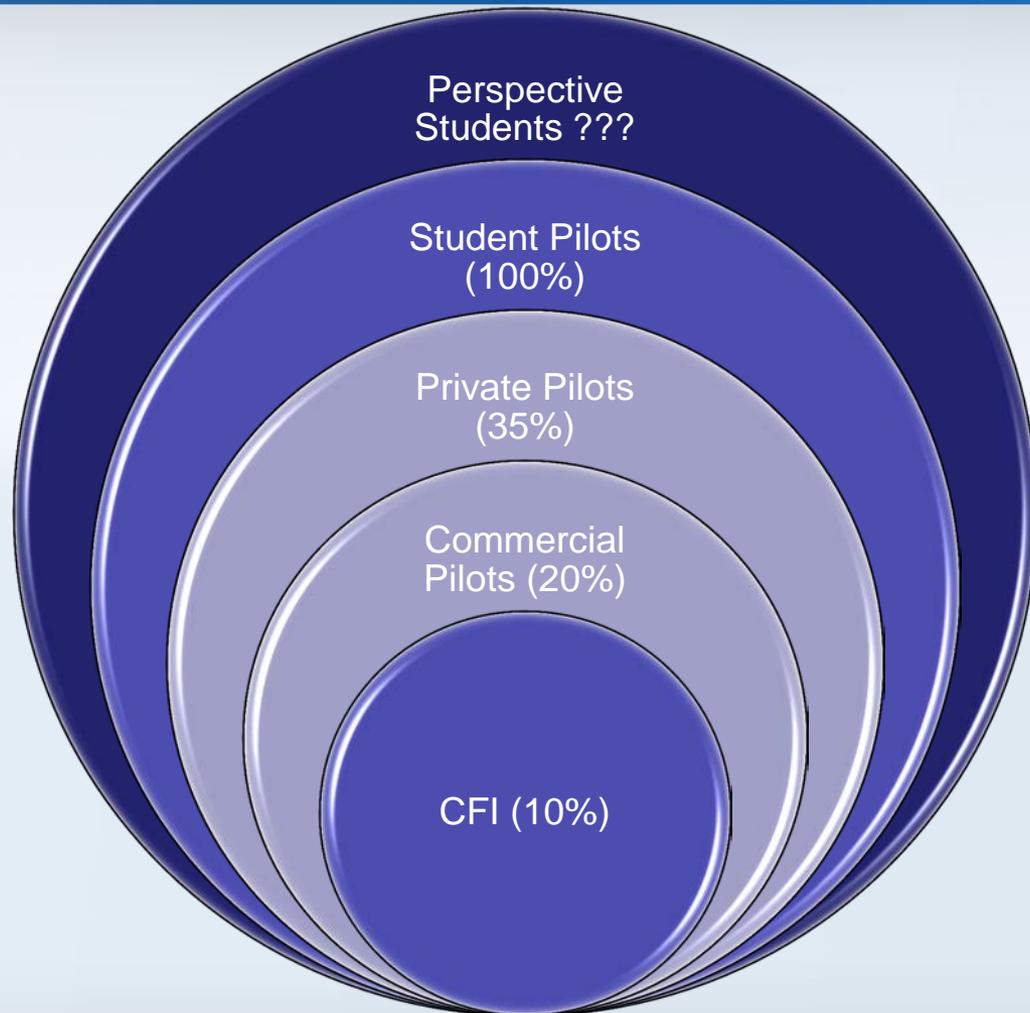
What does this all mean?



- Pilots are holding steady
- SD pilots are decreasing
- Student pilot certificates are not moving
- Private Pilots decreasing ~20%



How does this effect me?

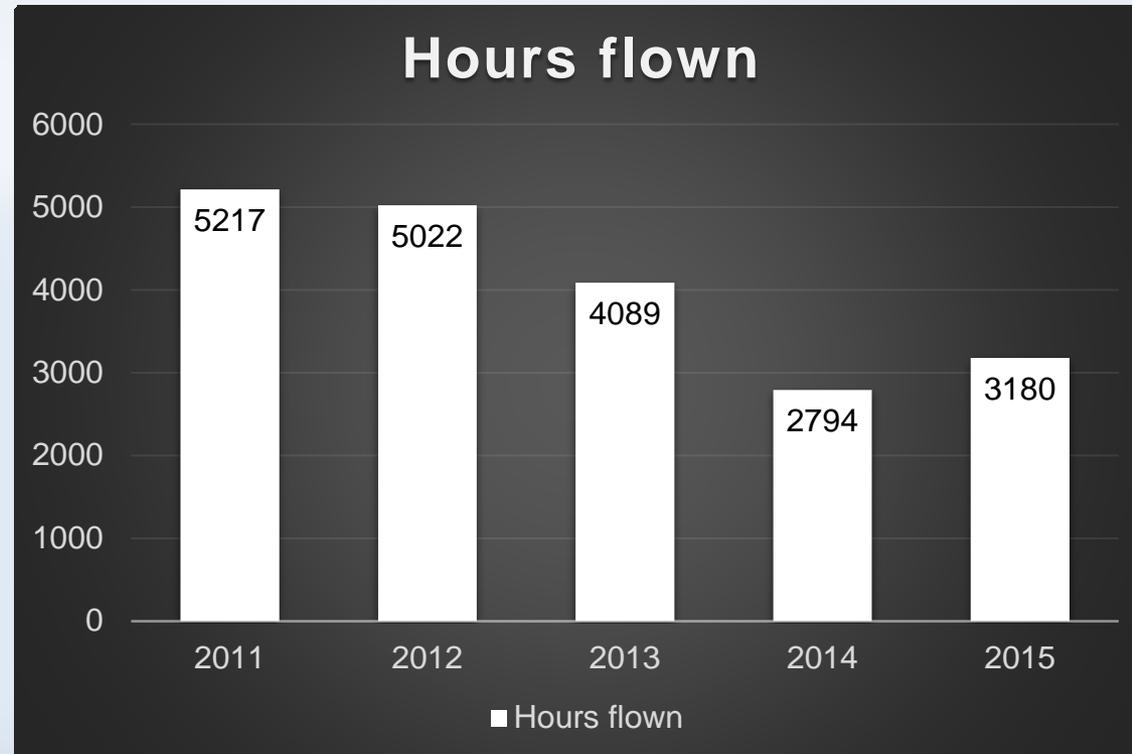


*2014 data

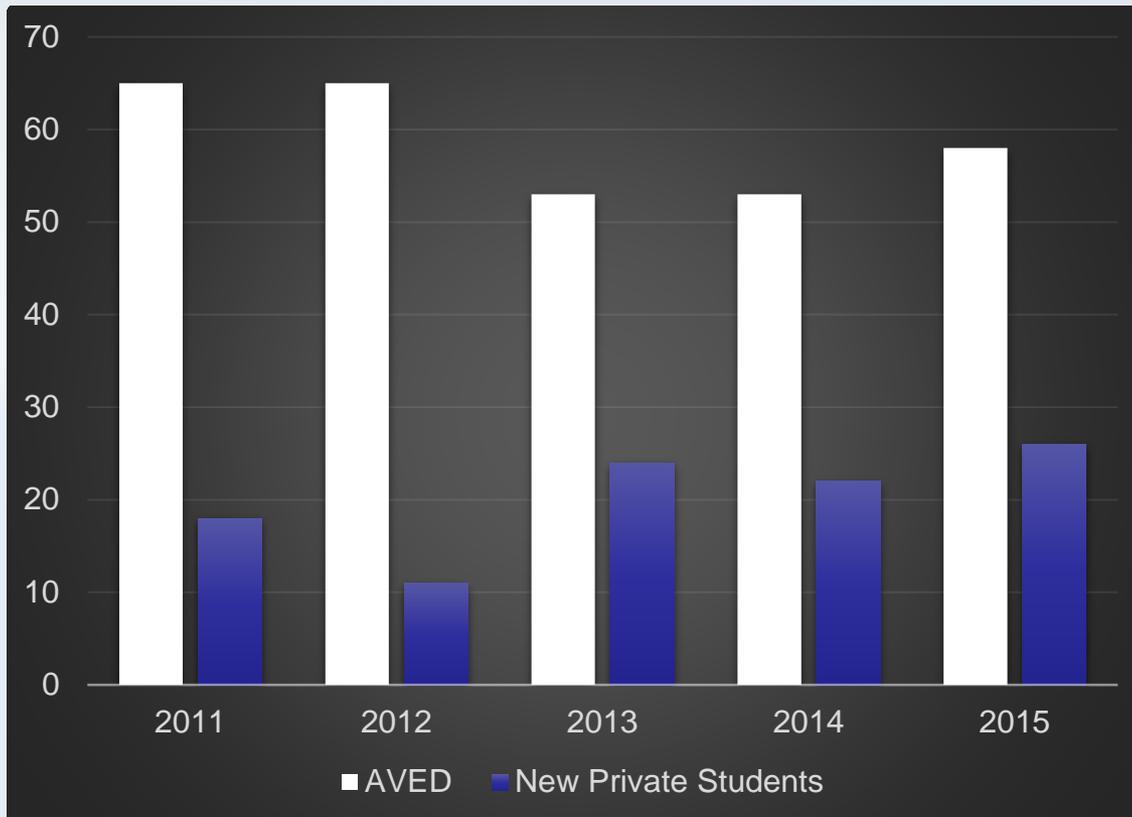
SDSU



- 65 students
- 6 aircraft
- 12 CFI's
- 7 full time
 - Pvt,
 - Inst
 - Comm (single/multi)
 - CFI, CFII, MEI
- Restricted ATP



Student Population



1st to 2nd year: 60%
Graduate: 20%

Decline in student population...



- Financial-8
- Medical-5
- Academic-3

Anecdotally



SDSU Recruiting

- Time
- Money
- Energy
- Right people
- Guerilla marketing

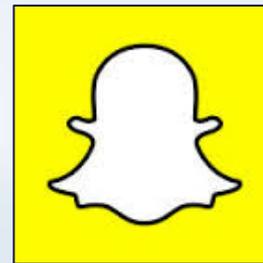


Use Social Media



- Airshows,
- Fly ins,
- Open houses

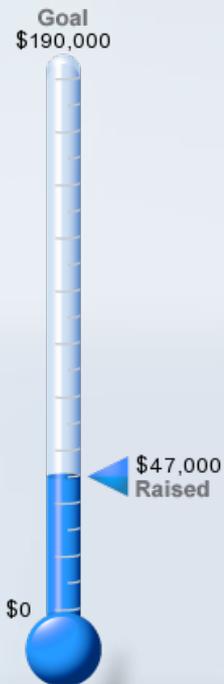
- Work with SDAA, SDPA, CAP, Aeronautics Commission, DoT, etc. to increase aviation awareness



Mobile Simulation Lab



- College students to interact with audience
- Target middle and high schools
- Connect with STEAM educators
- Provide safety seminars



Questions?



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