

# Weather Modification Internship

Laura Standen

# Top Seeder

- King Air C90
- Dry ice, ejectable flares
- Sifting dry ice before flight
- Better for pop up thunderstorms
- Punching through feeders at the top of thunderstorms
- Goes between District 1 and District 2, but mainly in District 2
- 120 hours





# Base Seeder

- Piper Seneca
- Silver iodide chemical, burn-in-place flares
- Good for supercells
- Next to the storm, along the shelf
- 163 hours







# Seeding Equipment











# Responsibilities of a Co-Pilot

- Not just flying the aircraft
- Running iPad in the aircraft
- Mixing silver iodide
- Chem inventory
- Maintenance flights
- Daily weather briefings
- Daily pre-flight
- Recheming the aircraft: silver iodide, flares
- Cleaning seeding equipment
- Maintenance on aircraft
- Maintenance on seeding equipment
- Writing reports after a mission
- Public Relations opportunities



# Supercell

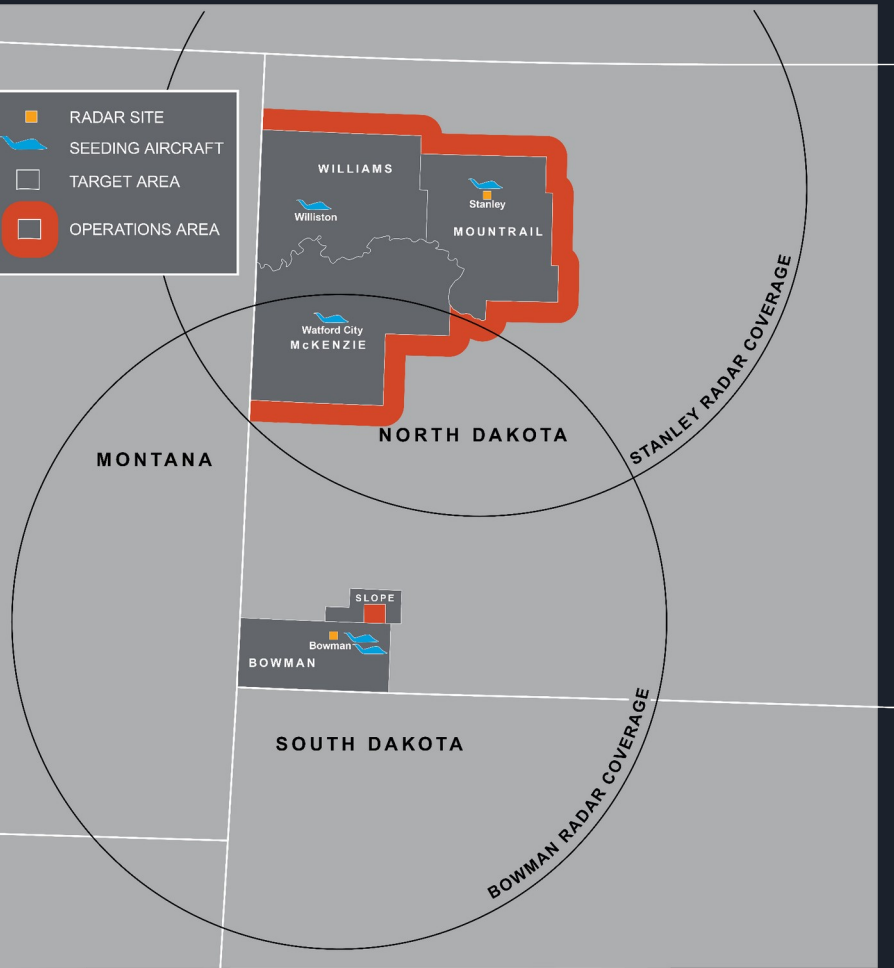


# Flight Time

- Need your multi-engine prior to project start
- Will get high performance and high altitude with WMI prior to project start
- Typically will start right seat, might move to left seat depending on your PIC
- Can log PIC time when on the controls
- Maintenance flights are good time to practice landings and emergency procedures (takeoff continued)
- Every intern pilot gets two weeks in the King Air



■ RADAR SITE  
✈ SEEDING AIRCRAFT  
□ TARGET AREA  
◻ OPERATIONS AREA



# Watford City

- King Air
- Top Seeder (Seed 7)
- Apartment living
- Theodore Roosevelt National Park



# Williston

- Seneca
- Base Seeder (Seed 5)
- Apartment living
- Airport outside of town





# Stanley

- Seneca
- Base Seeder (Seed 4)
- Radar met and two intern mets
- Stanley radar
- Town house
- Whirl-a-whips



# Bowman

- Two Senecas
- Base Seeder (Seed 1 and 2)
- Two PICs, two intern pilots
- One radar met, one intern met
- Bowman radar
- Farmhouse



# King Air Rover

- Rotate from base to base as other interns come to Watford City for their King Air rotation
- Fly every aircraft, fly with all the pilots







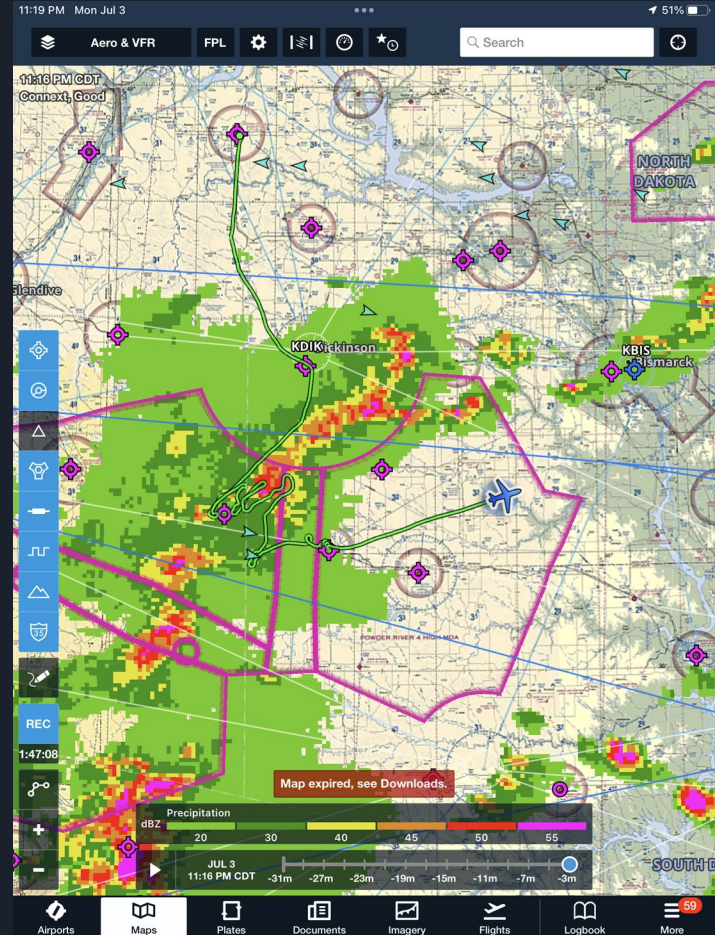
# Free Time

- Good coffee shops
- Going to the gym
- Motorcycle trails
- Hiking
- Work at the airport
- Flight instructing
- Online classes
- Fly-ins/Williston Airshow
- County Fairs



# Important Reminders

- Teamwork is important
- You'll be working with your co-pilot, the other seeds, meteorologists, ATC, the ARB
- Full summer commitment
- Nights and days







# Questions?

Email: [lauras2700@gmail.com](mailto:lauras2700@gmail.com)

Instagram: [laura.standen27](https://www.instagram.com/laura.standen27)

2023 Final Report:

<https://www.swc.nd.gov/arb/ndcmp/pdfs/finalreport.pdf>