Adam Warwick, Stewardship Manager
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Western North Carolina **Fire Crew TNC Rx Burns and Acres** 50,000 200 178 45,000 180 40,000 160 35,000 30,000 140 120 25,000 100 20,000 80 **ഉ** 15,000 60 28 10,000 40 5,000 20 FY17* FY10 FY11 FY13 FY14 Assisted Acres TNC-lead & -owned Acres

Western North Carolina

Fire Crew

Barrier

"Good Year" (15-20 burn days November - March weather smoke WUI topography weekends fuel moisture

Mitigation

Crews need to be available when needed but not necessarily full time.

WNC crew can burn when needed with our Southern Blue Ridge Fire Learning Network partners, addressing a barrier to burning more acres.



Southern Blue Ridge Fire Learning Network





Pilot Year 1 (2015-2016 Fire Season) November – April

- 43 applicants, 12 hired
 - 150 years of combined fire experience
- <u>Four</u> different partners assisted on seven burns within <u>four</u> FLN landscapes for

4,731 acres

- Partnership Building: particularly NC
 Wildlife Resource Commission, NC State
 Parks and US Forest Service-Grandfather
 - Not make or break
- Utilized crew to collect timber data on an important USFS restoration project
- Finished with 6 crew members at end of 6-



Adam Warwick



Lessons Learned

- Hiring
 - Recruiting: Most of the folks we hire are not searching TNC website for jobs.
 - Those that do search TNC website for jobs may not be best fit. #local
 - Requires some hires to have experience; teachers - mentors
 - More emphasis on scrutinizing FFT availability
- Logistics
 - Infrastructure-equipment
- Crew Coordinator
- Establishing TNC-Mountains track record





Year 2 (2016-2017 Fire Season) December – May

Changes

- Hired a crew coordinator
- Increased crew size to 15
- Scrutinized availability
- Avenza Maps for unfamiliar terrain



Adam Warwick



Corey Presnell



Year 2 (2016-2017 Fire Season) December – May

- 50 applicants
 - 15 hired (>150 years of fire experience)
 - Finished with 14 + Volunteers
- Six different partners assisted on seven burns within four FLN landscapes for <u>3,618</u> acres burned (TN and NC)
- NC Forest Service, USFS-Grandfather and Nantahala, NC Wildlife Resources Commission, NC State Parks, NPS-Great Smoky Mountains NP



Warren Bielenber



2-day burn at Cades Cove





Western North Carolina

Fire Crew

Eller Seep



Who we have hired

- NC Forest Service Pick Up Firefighter (7)
- VFD Firefighters (5)
- Non-Fire Careers (6)
- Asheville Fire Department (3)
- NC Forest Service Retired (1)
- NC Wildlife Resources Commission Retired (1)
- Off-Season Federal Firefighter (1)
- College Student (1)



Adam Warwick



Western North Care Fire Crew

Who we hire

- NC Forest Service Pick Up Firefighter
- VFD Firefighters
- Non-Fire Careers
- Asheville Fire Department
- NC Forest Service Retired
- NC Wildlife Resources Commission Retired
- Off-Season Federal Firefighter
- College Student
- FOLKS THAT LOVE FIRE (15)





Warren Bielenberg



vvestern North Carolina Fire Crew What we do:

- Ignition
- Holding
- Engine
- UTV
- **EMT**
- Fire Effects Monitoring
- **Fireline Construction**
- WUI Workdays
- FAL2 FALB
- **ENGB FIRB**
- **EMT LSOF2 (Line Safety Officer)**
- RXB2(t) and RXB1-2 equivalent







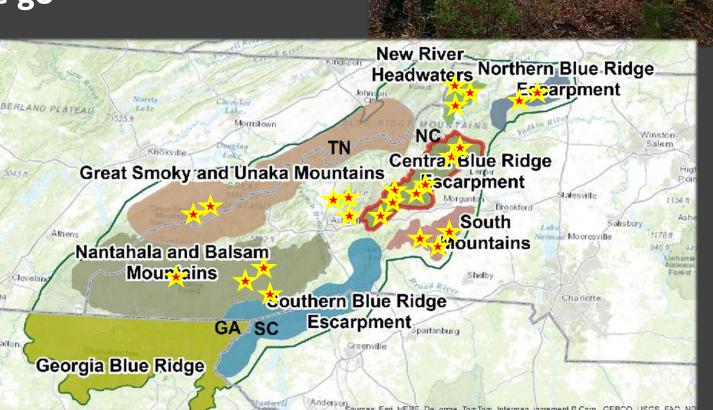
Western North Carolina Fixed Credy.

- Ignition (FIRB)
- Holding (ENGB)
- Engine (ENGB)
- UTV
- EMT
- Fire Effects Monitoring
- Fireline Construction
- WUI Workdays
 - Crawley Branch





Carolina Fire Crew Where we go







awarwick@tnc.org

Adam Warwick



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END

Year 2 (2016-2017 Fire Season)

Qualifications

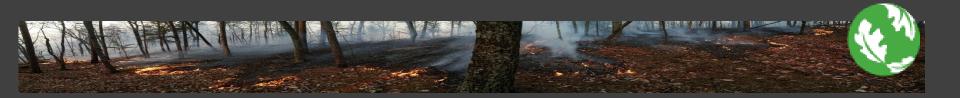
- FFT2(15)
- Line Safety Officer 2 (1)
- EMT (4)
- RXB1 RXB2-equiv (1)





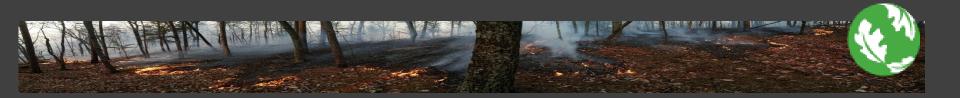
Year 2 (2016-2017 Fire Season)

- Example of Work
 - Crawley Branch USFS



Year 2 (2016-2017 Fire Season)

- Example of Work
 - Crawley Branch USFS



TNC's As-Needed crew was critical for holding fire lines, attacking spotovers, shoring base lines, and strategic interior ignitions on the Huckleberry Mountain controlled burn. The crew was highly valuable and beneficial for implementing strategic burn objectives. Having the TNC crew provided additional support and resources to control problem areas and increase burn efficiency and made containment and implementation easier.

Ryan Jacobs North Carolina Wildlife Resources <u>Commission</u>



The TNC crew was very helpful in firing and holding two system roads on the burn. They followed instructions, stayed in contact with other resources and fit right in with the rest of the burn organization. They stayed flexible and rolled with the changes thrown at them. They were entirely self-sufficient, which is always a plus.

Greg Philipp FMO-USFS Pisgah National Forest Grandfather RD



END



Western North Ca As-Needed Fire Cr





Conservancy forest crew fired up for winter burn season

Staff reports 4:50 p.m. EST December 12, 2015



(Photo: Jim Keepfer/Courtesy of NC Wildlife Resources Commission)

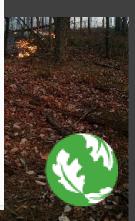
ASHEVILLE - The Nature Conservancy's new fire crew is preparing for the winter months, when most controlled burns occur.

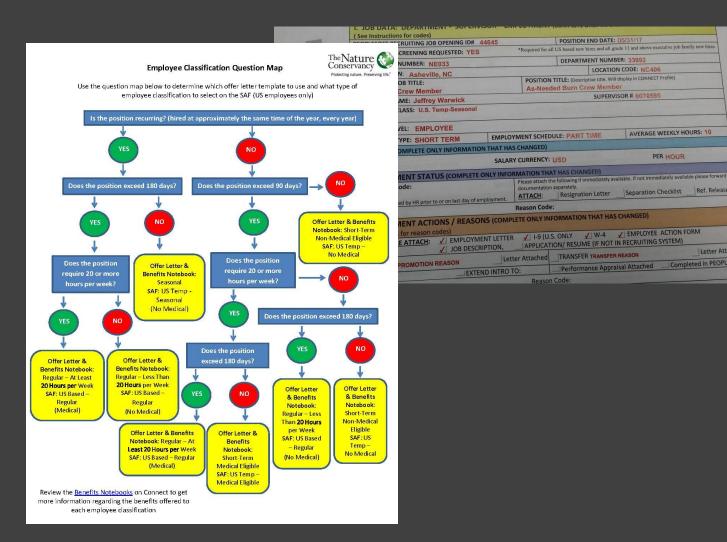
"This is an amazing crew," said the Conservancy's Adam Warwick, who leads the organization's forest restoration work in North Carolina's mountains, "We can lend their expertise to public land owners in the Southern Blue Ridge, which should enable forest restoration on a bigger scale than in past years."

The crew has one successful burn under its belt, but that's just the beginning, according to the Conservancy. The crew is ready to manage controlled burns on Conservancy property as well as public lands.

The Conservancy crew, which was funded by a grant from Asheville's Beattie Foundation, includes several veteran firefighters with decades of experience. It also includes people who work in local mountain fire departments and as standby firefighters for the North Carolina Forest Service. Together, the crew has 156 years of







Letter Atta

Completed in PEOPLE

Cost Breakdown:

\$12,385 Cost of crew
\$7,610 salary (\$14/hour)
\$3,275 in direct costs - EBA (32%)/Benefits (13%)
\$500 in background screenings
\$1000 Swag (hoodies, hats, t-shirts, helmet stickers, lighter leashes)
Includes 2 days onboarding, and some burning time supported by CFLR monies

\$15,000 start up costs
10 radios, line gear, shelters,

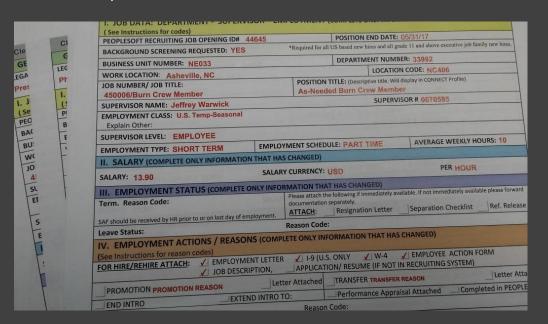


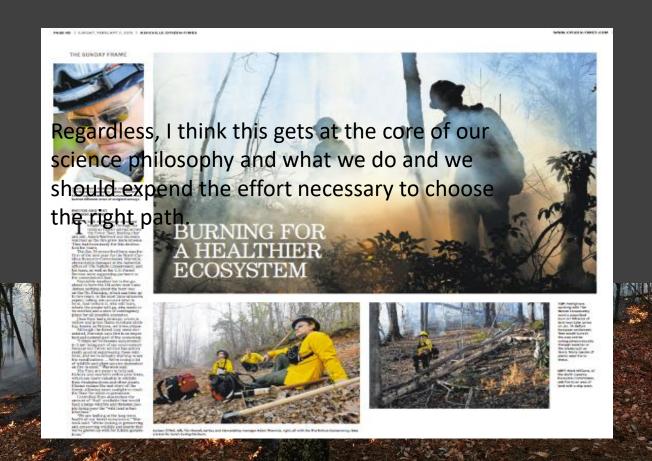
Short-Term Part Time: <6 months (i.e., seasonal) <35 hrs/week

Short-Term Full Time: <6 months 35 hrs/week (e.g., Sandhills crew)

Long-Term Temporary (Full or Part-Time): <1 year

Long-Term Permanent (Full or Part-Time): >6 months





Challenges (Year 1)

- Unexpectedly high attrition (6 of 12; health, family, new jobs)
- Building crew cohesion (i.e., safety, communication)
- TNC-NC Funded (\$30K)
- Volume of hiring paperwork (12x),
 - Support from HR and other staff is important (J. Lamb)



Challenges (Year 1)

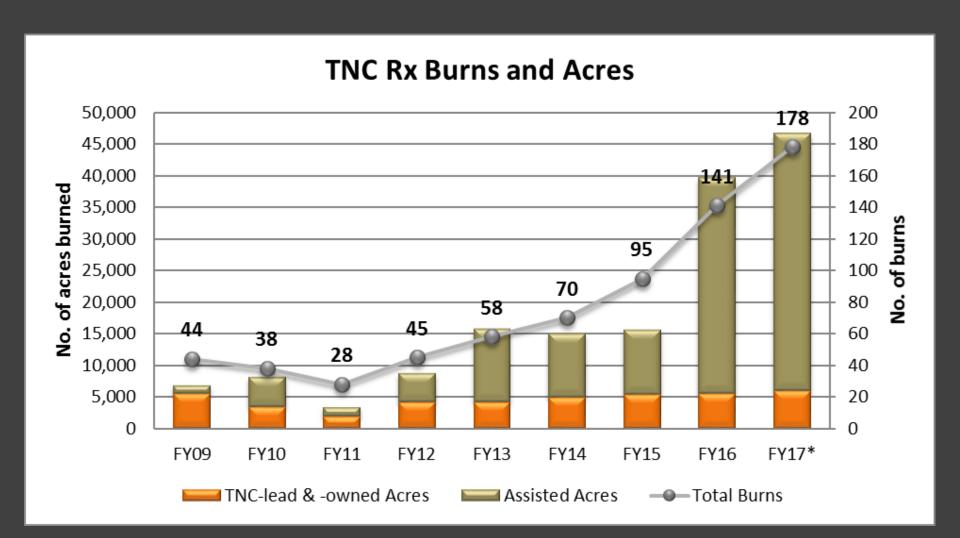
- Outreach: FFTs don't generally check TNC website for jobs.
- Not generally prospective -ologists
 - Required active targeted outreach to NC Forest Service, VFDs, Asheville FD.
 - Door-Door; Word of mouth, some folks not ready to put down the torch
- Logistics and coordination (Storage-Hand Tools, Meeting Place)
- Used TNC vehicles and when necessary, a personal vehicle or two
 - Renting was just another challenging coordination effort



Successes (Year 1)

- Got off to a great start with the boots on the ground presence
- Partnership Building
 - USFS partnership
 - Building the NC Forest Service partnership
 - Building the NC WRC Partnership
 - Building the NC State Parks capacity





Year 2 (2016-17):

- 4 returnees from 2015-16 (big advantage for as-needed militia)
- Hired 15 (12 in 2015-16) to account for attrition and folks that were not as available as anticipated (DONE)
- Hired a crew coordinator to take on more of the logistics and coordination (DONE)
- Budgeted for some personal mileage reimbursement in case TNC vehicles do not meet the needs (DONE)
- USFS R8 funding (\$40K).
- A good burn day for one is a good burn day for all. Split crews



Results and Changes for Year 2:

- More scrutiny for hires other commitments, etc. (i.e., they want to burn, but are they gonna be available as much as they think they are?)
- Managing higher experienced (20-30yrs) folks, managing personalities
 - Different from managing 20-25 yo FFT2s.
- IQCS IQS Quals Equivalency (DIVS, SOF2, RXB2, etc.)

