

TOOLIK FIELD STATION

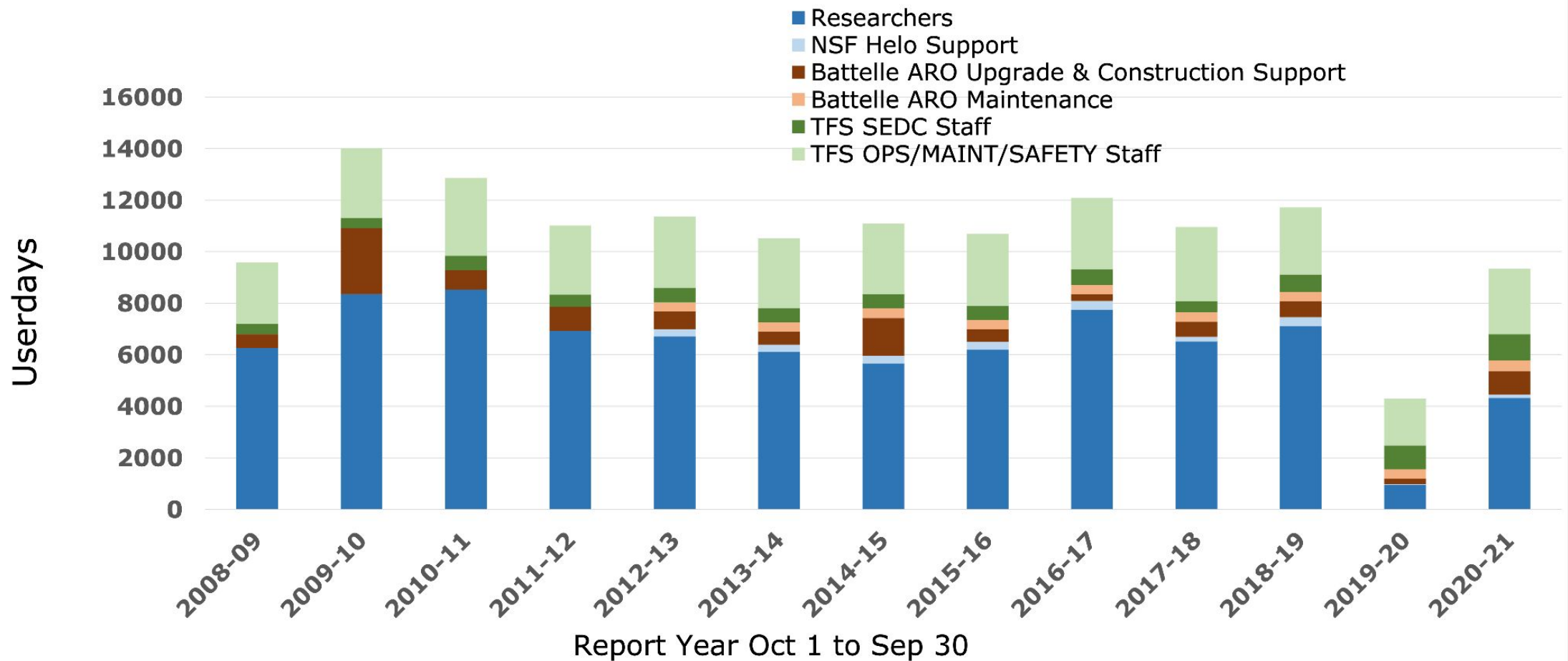
2021 SEASON OVERVIEW

OCTOBER 1, 2020 - SEPTEMBER 30, 2021 REPORT

FAUSTINE BERNADAC, SCOTT FILIPPONE, AMANDA YOUNG



USERDAYS TOTALS



USERDAY CATEGORIES

PERCENT CHANGE 2018-19 VS. 2019-20



	2019-20	2020-21	CHANGE	PERCENT
TFS Ops Staff	1828	2544	716	39%
TFS SEDC Staff	916	1013	97	11%
Battelle ARO Maintenance	376	411	35	9%
Battelle ARO Construction	201	904	703	350%
NSF Helicopter	36	140	104	289%
Scientists	947	4324	3377	357%
TOTAL	4304	9336	5032	117%

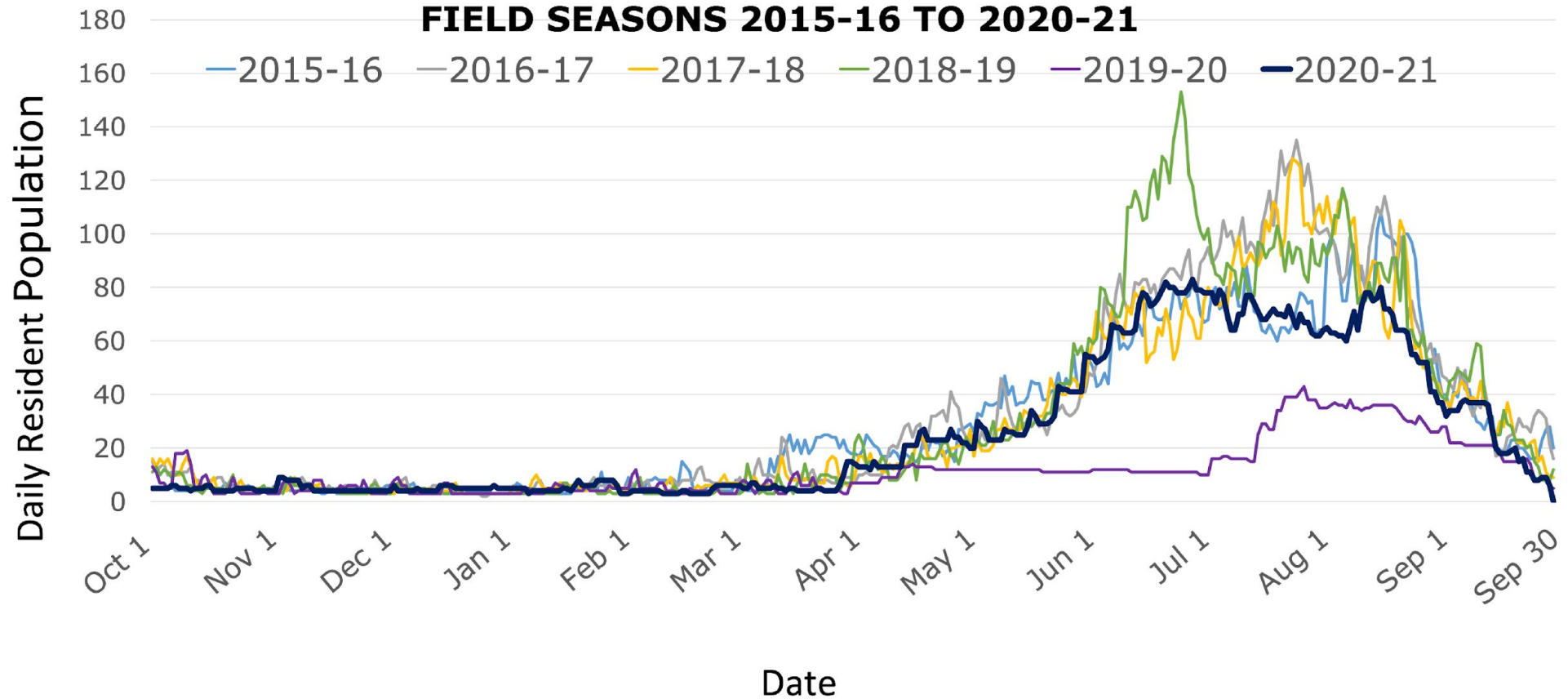
NOTES

- TFS operations staff
Staffing level close to normal compared to 2020
- SEDC
Additional staff hired to support Remote Access requests
- NSF Contractors
2 construction deployments, back to normal after decrease in 2020.
- Helo
Back to 2 helicopters

RESIDENT POPULATION 2015-2021



TOOLIK FIELD STATION RESIDENT POPULATION OCT 1 TO SEP 30 FIELD SEASONS 2015-16 TO 2020-21



STAFF CHANGES AND UPDATES



New hires:

- Program Administrator (new position; restructure of Mike Abels's): Marin Kuizenga
- Communications & DEI Manager (new position; restructure of Brett Biebuyck's): Haley Dunleavy
- Expeditor: Dave Wesolowski
- Temporary hires for logistics help and camp support during winter months

Changes:

- Mike Abels retired
- Faustine Bernadac & Skye Greer leaving/left to PFS/UAF.
- Logistics and Finance departments as well as Safety, will be overseen by Marin Kuizenga, moving forward.

Active recruitments:

- Fiscal Manager
- Web Developer/Programmer
- New GIS/Remote Sensing Technician
- EDC Research Technician

YEAR 2 OF COVID...



- No camp closure in 2021, but same strict quarantine and testing protocols as 2020
- Mask mandate dropped
- Kitchen services resumed similar to a normal year
- Remote Access support provided
- Town Hall meeting held in Spring
- Population peaked at 83 (43 in 2020), and stayed between 60-80 until late August
- Construction at full capacity with several large projects completed: New medical facility, waste heat extension, etc.

LOGISTICS OVERVIEW



- Usual freight handling, procuring supplies, scheduling and maintaining vehicles, Fairbanks office, and assisting with Station operations.
- Supply chain issues as well as COVID labor impacts = truck maintenance delays in Fairbanks = frequent adjustments to schedule.
- Fewer users but increased tasking due to COVID:
 - More errands as users in quarantine can't shop
 - Contact-free testing assistance, truck drop-offs, & orientations
 - Fewer trucks meant creativity required to get freight and people north/south.

MAINTENANCE/FABRICATION HIGHLIGHTS



New Hires

- Duncan Cameron and Kevin Williams were new seasonal hires for 2021.

Repaired Tire Metric

- 2019 - 41
- 2020 - 8
- 2021 - 13

Assisted Construction and Maintenance

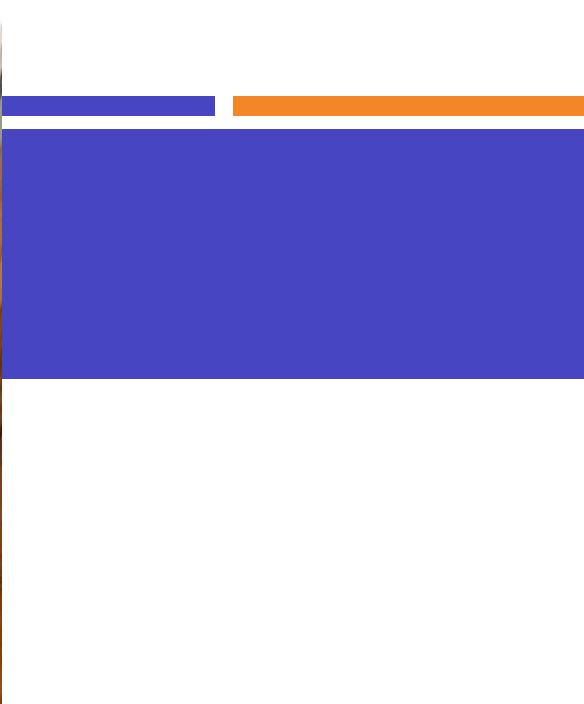
- 66 hrs

NEON Generator Maintenance and Repairs

- 111 hrs

Projects

- Shed roof constructed for common use science materials storage
- Recreation equipment storage shed
- Cleared out GIS and EDC trailers for floor replacement
- Replaced floor in EDC trailer



TRUCKS

- COVID has decreased overall mileage due to fewer trips in 2020 and 2021.
- Fleet is aging - historical cycle saw trucks retired from Haul Road duty at ~100,000 miles to become Toolik pad trucks. Several pad trucks very near end of useful life.
- Several Haul Road trucks have high miles
- Maintenance times at dealer quite delayed by COVID - 3 weeks to 4 months.
- Two new NSF Fleet vehicles anticipated - delivery likely late to support '22 season.
- New science support trucks are still needed due to no new fleet in '20, '21.

BUILDING COMMUNITY

- In person and virtual users forums
- Trivia nights!
- Weekly Science workshops
- Inclusivity/diversity meetings
- Community bike/canoe/run to support the Arctic National Wildlife Refuge, in July
- Several camp events and activities organized
- Revamp of the Community Center: board games, TV, couches, art, etc.

NEW PROJECTS IN 2021



- NSF projects:
 - Arctic Stream Networks as Nutrient Sensors in Permafrost Ecosystems – Ben Abbott
 - Post-Doctoral Fellowship: Leaky landscape – Ariel Shogren
 - Phosphorus/Iron in the Arctic – Elizabeth Herndon, Mike Weintraub
 - Disturbance regimes in the New Arctic – Mark Lara, Melissa Chipman
- Alaska DGGS/USGS Rooftop Ridge - mapping project – Amanda Willingham
- WCS Wolverine survey and BBC Mammals – Martin Robards/Tom Perry
- Interactions between erosion and permafrost thaw – Eitan Shelef

THANK YOU!

