BNZ Core Data - Annual Seed Counts

- Started by John Zasada in the Bonanza Creek watershed -
- First site in 1957 (UP1A)
- Others started in 1969 (UP3A), ~1986 (FP2A, etc.)
- Added upland black spruce in 2008 (UP4A) & post-fire monitoring in CPCRW
- Reduced to just 7 sites in 2018

Responsibilities & Opportunities

Within BNZ

- Work with site management team to periodically re-evaluate sampling plan (grant cycle)
- Ensure annual measurements are collected and processed
- Periodic QA/QC of data
- Recognize, communicate, advocate

Outside BNZ

- Contact person for questions about dataset (inside and outside BNZ)
- Opportunities for data analysis & primary publication
- Requests for collaboration as co-author on synthesis work

Recent Publications with BNZ Seed Data

Oecologia (2014) 174:665–677
DOI 10.1007/s00442-013-2821-6

PHYSIOLOGICAL ECOLOGY - ORIGINAL RESEARCH

Climate sensitivity of reproduction in a mast-seeding boreal conifer across its distributional range from lowland to treeline forests

Carl A. Roland · Joshua H. Schmidt · Jill F. Johnstone

Journal of Ecology
BRITISH ECOLOGICAL SOCIETY

RESEARCH ARTICLE

Climate teleconnections synchronize *Picea glauca* masting and fire disturbance: Evidence for a fire-related form of environmental prediction

Davide Ascoli, Andrew Hacket-Pain, Jalene M. LaMontagne, Adrián Cardil, Marco Conedera, Janet Maringer, Renzo Motta, Ian S. Pearse, Giorgio Vacchiano,

First published: 12 October 2019 | https://doi-org.cyber.usask.ca/10.1111/1365-2745.13308 |
Citations: 10

LETTER

doi:10.1038/nature24038

Temporal coexistence mechanisms contribute to the latitudinal gradient in forest diversity

Jacob Usinowicz[1], Chia-Hao Chang-Yang[2], Yu-Yun Chen[2], James S. Clark[3], Christine Fletcher[4], Nancy C. Garwood[5], Zhanqing Hao[6], Jill Johnstone[7], Yiching Lin[8], Margaret R. Metz[9], Takashi Masaki[10], Tohru Nakashizuka[11,12], I-Fang Sun[2], Renato Valencia[13], Yunyun Wang[6], Jess K. Zimmerman[14], Anthony R. Ives[1] & S. Joseph Wright[14,15]

nature COMMUNICATIONS

ARTICLE

https://doi.org/10.1038/s41467-020-20836-3 OPEN

Check for updates

Continent-wide tree fecundity driven by indirect climate effects

James S. Clark[1,2✉], Robert Andrus[3], Melaine Aubry-Kientz[4], Yves Bergeron[5], Michal Bogdziewicz[6], Don C. Bragg[7], Dale Brockway[8], Natalie L. Cleavitt[9], Susan Cohen[10], Benoit Courbaud[2], Robert Daley[11], Adrian J. Das[12], Michael Dietze[13], Timothy J. Fahey[8], Istem Fer[14], Jerry F. Franklin[15], Catherine A. Gehring[16], Gregory S. Gilbert[17], Cathryn H. Greenberg[18], Qinfeng Guo[19], Janneke HilleRisLambers[20], Ines Ibanez[21], Jill Johnstone[22], Christopher L. Kilner[1], Johannes Knops[23], Walter D. Koenig[24], Georges Kunstler[2],

BNZ Seeds - Reflections on Core Data

- Great scientific value
- Connect BNZ to other sites worldwide
- High latitude location = important contribution
- Collaborate with exceptional researchers
- Regional to global scale inference