

MBFI: Who are we?

- Manitoba Beef & Forage Initiatives Inc. (MBFI) is a collaborative research and demonstration farm
- Four core partners:

Manitoba Agriculture

Manitoba Forage and Grassland Association (MFGA)

Manitoba Beef Producers (MBP)

Ducks Unlimited Canada (DU)













MBFI: OUR Opportunity

Recognize the growing support for forage & beef research /extension.

- Encourage/support dialogue within the industry, to fine tune priorities, to fill the gaps in knowledge and adoption.
 - Continue consultations with producers, academia, provincial extension staff.
 - Aligned with the BCRC National beef research strategy.
- Create a hands-on opportunity to learn





MBFI: Public/Private Partnership

- Supporting collaboration across organizations.
- Government and industry working together to promote foundational and applied research to producers, students and the public.











Mission and Vision

 MBFI is a centre of agricultural innovation engaging in science-based research to benefit valuable ecosystems, improve producer profitability and build social awareness around the beef and forage industry.

 We want a World-leading, prosperous and vibrant beef and forage industry in Manitoba.





MBFI: Industry Directed

- Board of Directors: comprised of members from the four partners.
- Steering Committee comprised of members from the four partners.
- Research Advisory Committee
 - Provide vision/advice on MBFI direction,
 - Membership: producers (early adopters), government, university, and associations (MB Ag, AAFC, MBP, DU, WBDC, MFGA, U of M).
 - Research Fund (MBFI administered),





Dual Purpose

• Push the limit:

'look outside the box'

'try the impossible'

'attempt risky projects'

'keep projects diverse'

'be on the leading edge'



- While continuing to manage the basic things that keep us farming:
 - Enterprise management,
 - Maximizing land use,
 - Recording input and outputs,
 - Owning vs renting.







MBFI Objectives

- 1. A formalized structure of communication and collaboration between stakeholders of the beef and forage sectors two-way.
- 2. An active beef and forage research program in Western Manitoba that also expands beyond our borders and invites other forage and beef research providers to the province.
- 3. A demonstration farm that challenges conventional wisdom, with a purpose to improve adoption rates, and to teach the next generation.
- 4. An informed dialogue between industry and policy makers, media, and general public.
- 5. A platform to increase Canada's professional capacity in livestock and forage research and extension.



Where are we located?

- 3 distinct environments for flexibility.
- Brookdale Farm: 10 minutes north of Brandon.
 - Classroom + Cattle handling facility provide indoor/outdoor teaching environment.

• Year-round grazing, low-cost winter feeding, animal handling and care, environmental

interface.

- First Street Pasture: 1 mile east of Brandon.
 - Open range, rotational grazing, spurge control.
- Johnson Farm: 1 mile east of Brandon.
 - Cattle handling facility, mobile lab, replicated pastures, year-round water.

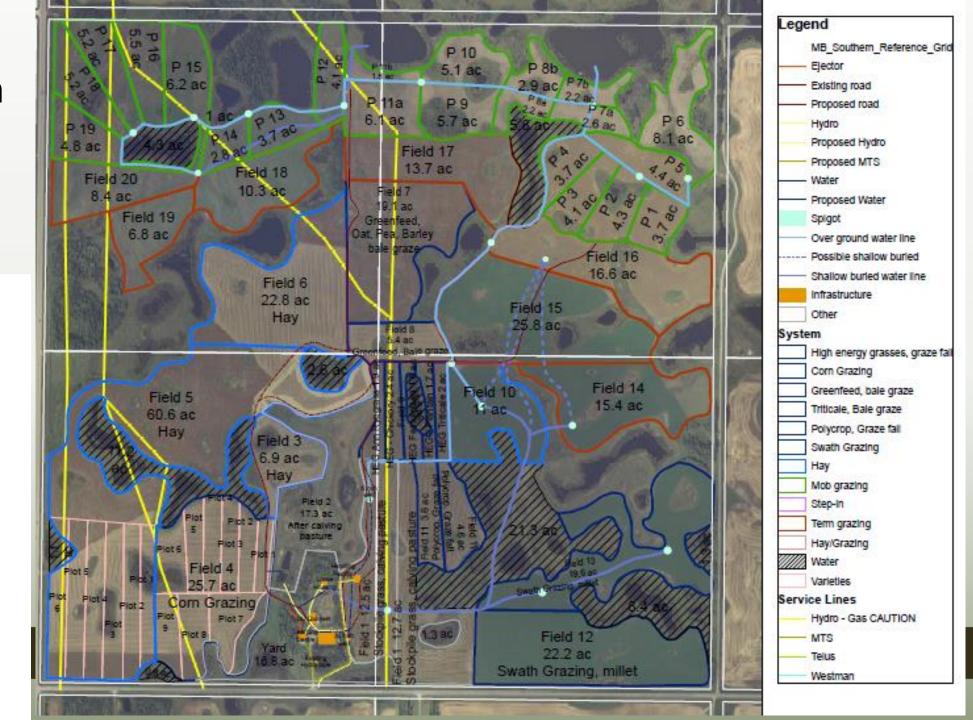


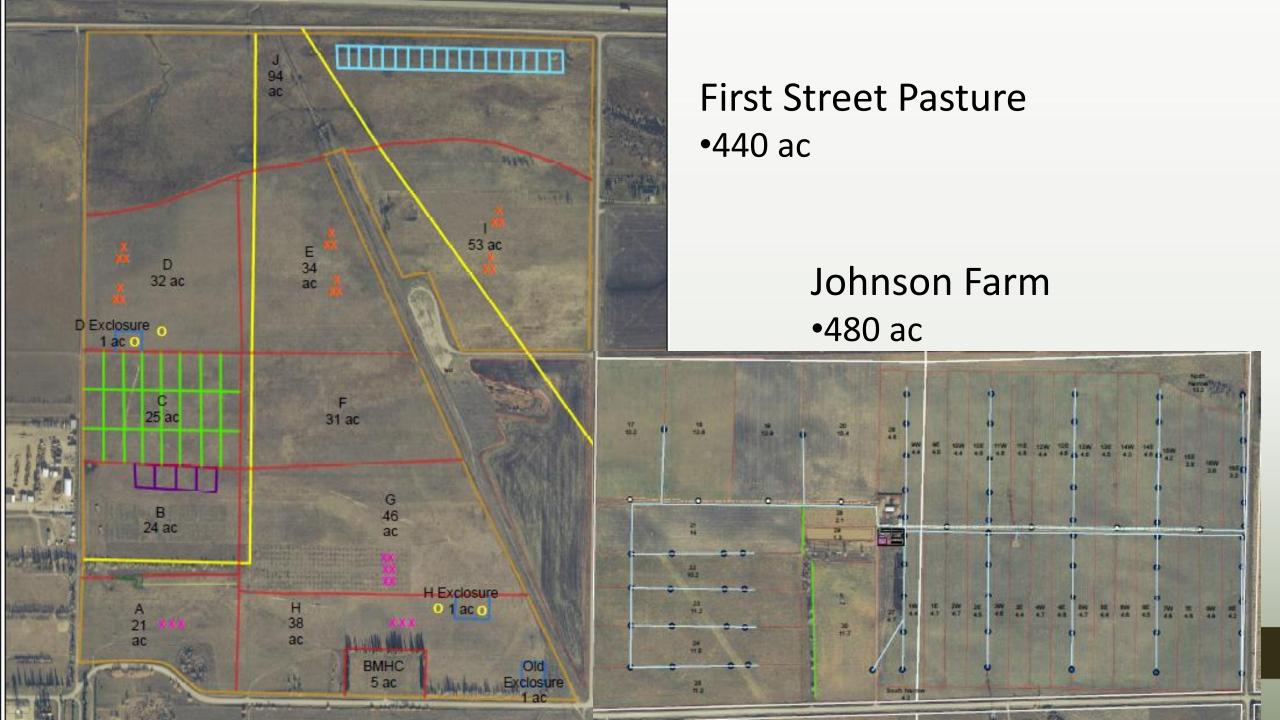




Brookdale Farm •640ac

- •Status
- •Ag Capability Class 2-5
- Variable Landscape
- •Riparian zones
- Brush
- Wildlife
- Eroded knolls
- Opportunities
- •Crop/Livestock integration
- Year round grazing
- Annual/Perennial rotations
- Flood mitigation



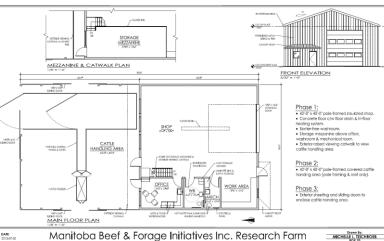


What are we working on?

- Design/set up
- Acquiring equipment and cattle
- Initiating applied research projects.
- Extension and Outreach.







Workshop & Cattle Handling Facility

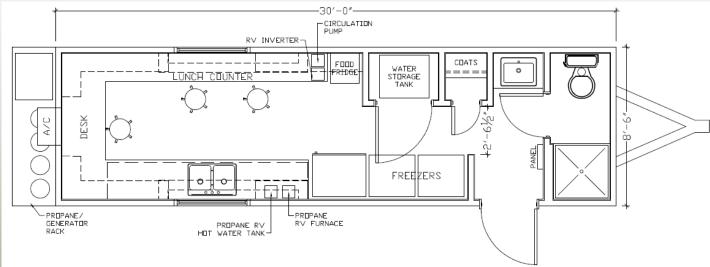




Mobile Laboratory

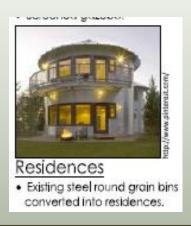
- Build research capacity
- Process and storage samples
- For use on/off farm
- Year-round capability





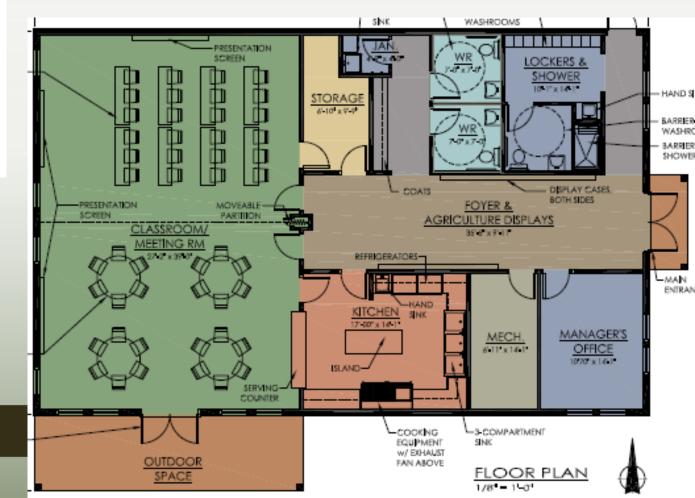








Learning Center



Projects

- 22 current/on going projects at the 3 MBFI sites
 - 13 applied research projects are led by Manitoba Agriculture and/or AAFC
 - 9 projects led by researchers (AAFC, University of Manitoba, University of Winnipeg, Brandon University)
 - Some projects are stacked together
 - Production goal: year-round grazing







Projects

- Grazing
- 1. Planned Grazing Comparison
- 2. Polycrops for late season grazing
- 3. Energy Dense Annual Forages
- Introducing legumes using sod, broadcast/mob, grazing
- 5. Teaching Cattle to Eat Leafy Spurge
- 6. Using simple rotational grazing to improve pasture production
- 7. Impact of cow-calf feeding and vaccination strategies on carcass outcomes in beef cattle
- 8. Forage species evaluation for overwintered cows
- 9. Impacts of cattle grazing on foxtail barley in wet meadow rangeland communities
- 10. Extended Grazing & Extensive Wintering Project

Soil, Ecology and/or Environment

- 1. Riparian Health Assessment of Wetlands
- 2. Burrowing Rodent Thresholds in a Forage Crop
- 3. Shelterbelt designs for improved extensive grazing systems and biodiversity
- Impacts grazing intensities on Cicer milkvetch abundance on a planted native grass pasture
- 5. Soil Carbon monitoring to detect changes in soil carbon due to implementation of planned grazing and rotational grazing
- 6. Alfalfa Phosphorus Ramp Demonstration
- Influence of landscape position and forage management practices on soil health
- 8. Response of rangeland ecosystems to extreme drought
- Experimental evaluation of microbial biomass as an indicator of soil health under forage management
- 10. Use of polycrop mixes to promote soil microbial communities and improve forage yield and sustainability
- 11. An economical management option for fighting leafy spurge
- 12. Edge of Field Runoff Project



Looking Forward: Extension and Outreach

- Our most important piece.
- Adoption succeeds through 5-step process:
- 1. Awareness learning of the new idea (but having few details about it)
- 2. Interest developing an interest about the idea, seeking more info
- 3. Evaluation turning general interest into personal interest
 - 1. e.g. mentally applying the innovation to one's own situation
- 4. Trial physically applying the innovation, usually on a small scale
- 5. Adoption







Looking Forward

Engaging the Next Generation

- Student workshops
 - Field trips, workshops, hands-on learning



- 4H Canada
 - Short term projects, training sessions, develop interest in agriculture.

- Ag In The Classroom
 - Open farm days, field demonstrations, engage the general public.





Looking Forward

Friends of MBFI

- Partnership development is on-going.
 - Significant support from local retailers



- Feb 2016: McDonald's Canada
 - MBFI core values align with McDonald's and the Canadian Roundtable for Sustainable Beef (CRSB).
- 2016/2017: additional partners to be announced this winter.





Please join us for....

Extended Grazing Workshop – December 8, 2016

Grand Opening - Summer 2017

www.mbfi.ca

Twitter: @MBBeefandForage

FB: Manitoba Beef & Forage Initiatives Inc.





Thank you to our Core Partners and Major Funders











