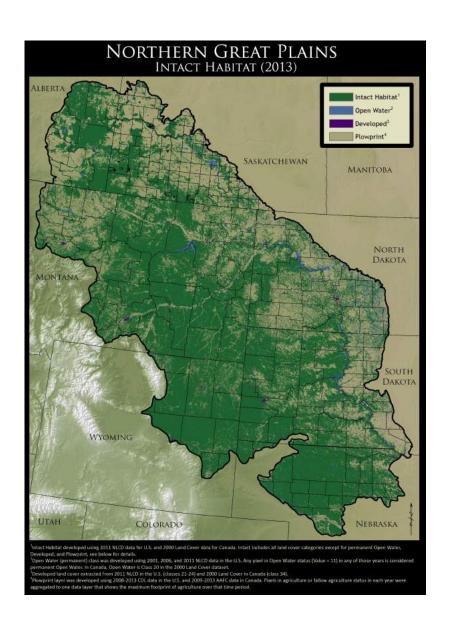


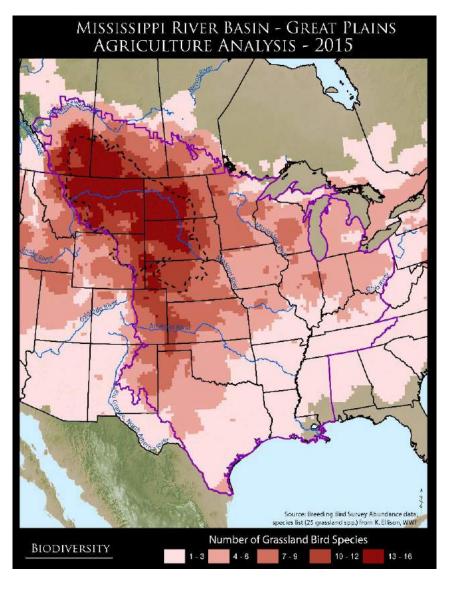
Grassland Ownership Trends and Community Resilience

Julia Haggerty, Montana State University



Ranchers manage over 80% of remaining intact habitat





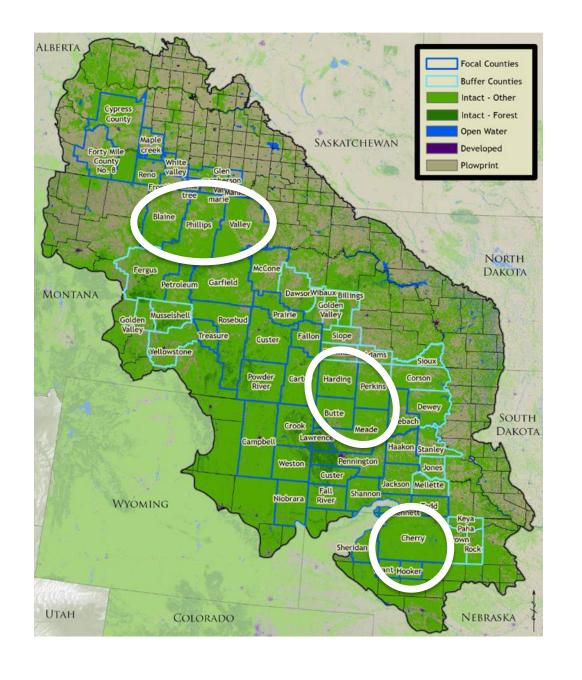
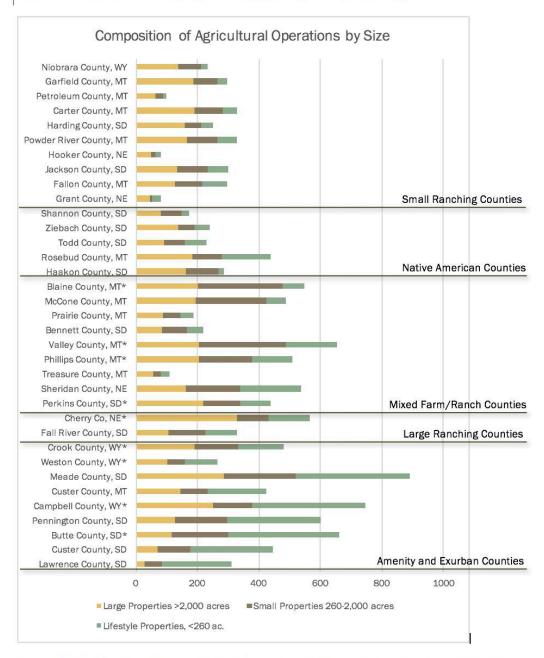
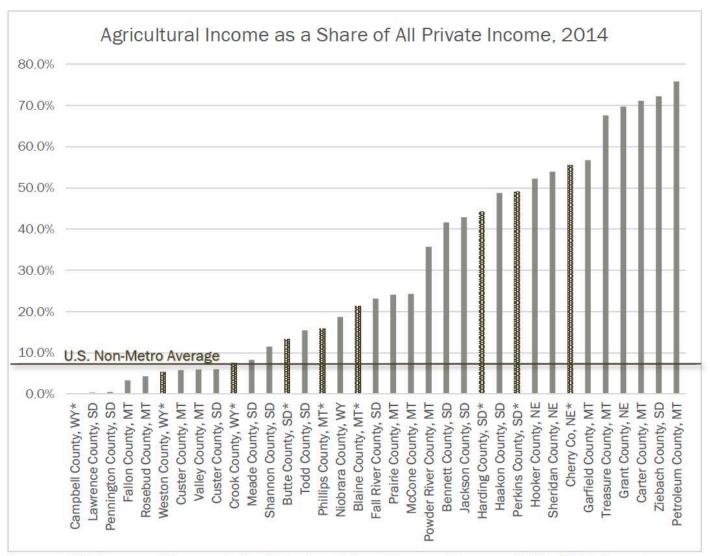


FIGURE 6. COUNTY AGRICULTURAL OPERATION OWNERSHIP PATTERNS



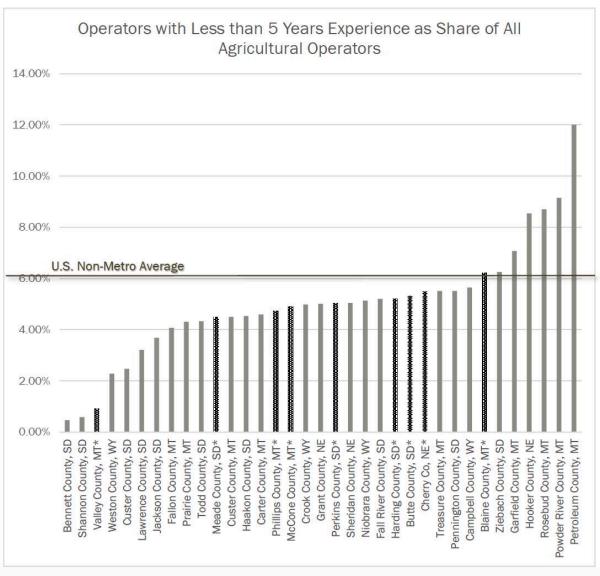
Source: USDA Agricultural Census, Table 8, Farm, Land in Farms, Value of Land and Buildings, and Land Use: 2012 and 2007. Accessed 4/2016.

How dependent is the local economy on agricultural income?



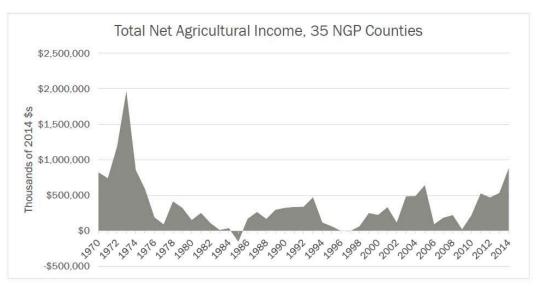
Source: US Bureau of Economic Analysis, Local Area Personal Income, Table CA45 Farm Income, Accessed 3/2016. *SRI Priority Counties marked in pattern.

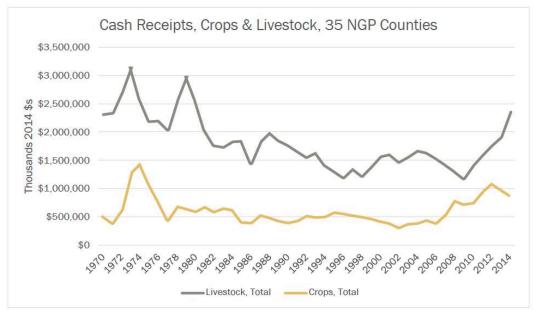
Are there new producers in each county?



Source: USDA Census of Agriculture, 2012. *SRI Priority Counties marked in pattern.

What are long term trends in agricultural income?





Source: U.S. Department of Commerce, 2015. Bur. of Economic Analysis, Regional Economic Accounts, Table CA45.

How does agricultural income compare?

\$2.5 Billion \$931
Billion

\$2.5B Farm Business Total Cash Receipts, 2016 (MT, WY, ND, NE, SD); \$931B Dividends, Interest and Rent (TX, CA, NY)

Source: U.S. Department of Commerce, 2015 and 2016. Bur. of Economic Analysis, Regional Economic Accounts, Table CA45.

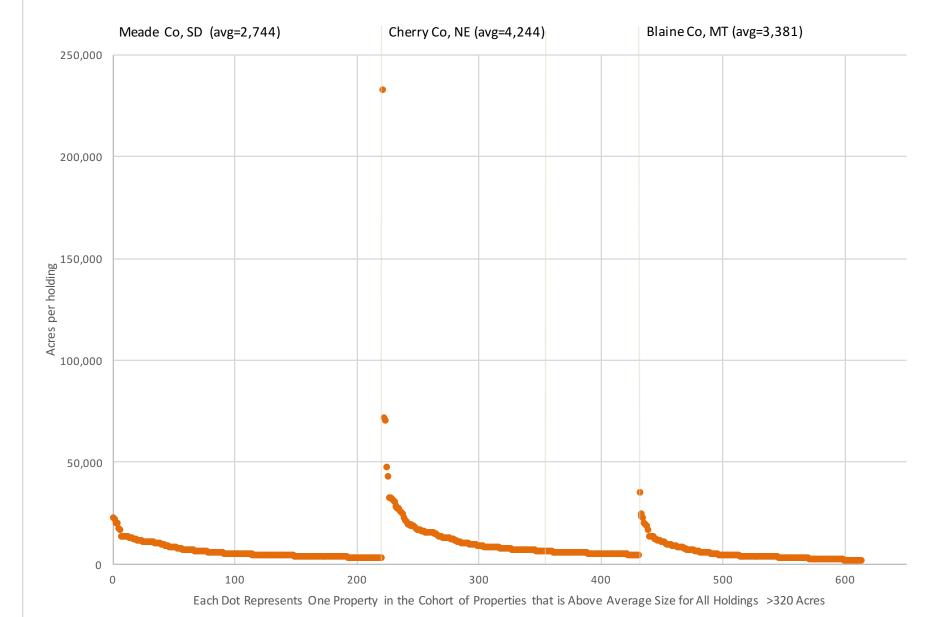




Land ownership trends

| Attribute | cherd Co. Nr | Meade Co. St | Butte Co.' | Hading Co., St | Perkins Co., |
|---|--------------|--------------|--|----------------|--------------|
| number farms (2012 ag census) | 556 | 891 | 659 | 250 | 437 |
| land in farms (2012 ag census) | 3,609,327 | 2,032,553 | 1,134,603 | 1,467,327 | 1,630,875 |
| average farm size (2012 ag census)* | 6,637 | 2,281 | 1,722 | 5,869 | 3,732 |
| | | | | | |
| Number of properties >320 ac. | 820 | 680 | N/A due to lack of cadastral/parcel data | | |
| Total acreage in >320 holdings | 2,434,176 | 1,333,674 | | | |
| # properties >320 acres changing hands, 2011-2015 | 95 | 96 | 36 | 19 | 64 |
| # acres changing hands, 2011-2015 | 246,662 | 152,424 | 58,812 | 42,734 | 110,708 |
| Share of large** properties changing hands | 12% | 14% | | | |
| Share of acreage in large holdings changing hands | 10% | 11% | | | |
| Share of all private, non-urban land changing hands | 6.8% | 7.3% | 4.9% | 3.2% | 7.3% |
| | | | | | |
| value of land sales | \$83,815,835 | \$27,009,021 | \$11,605,372 | \$5,088,180 | \$24,593,113 |
| average value per acre (land only) | \$339.80 | \$208.00 | \$265.00 | \$134.00 | \$261.00 |
| | | | | | |
| Ratio: land sales to # of farms | 0.17 | 0.11 | 0.05 | 0.08 | 0.15 |
| *private land, does not include public land | | | | | |
| **"large"=parcel >320 acres | | | | | |





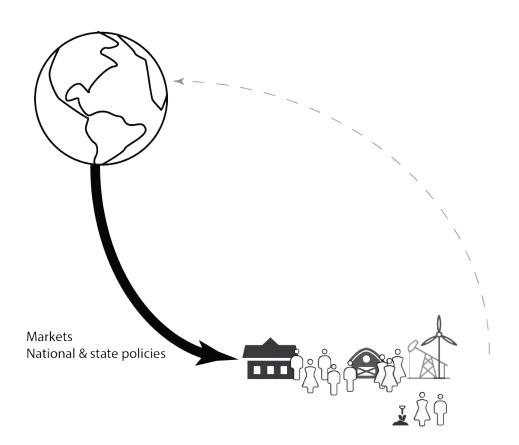
Outcomes for conservation

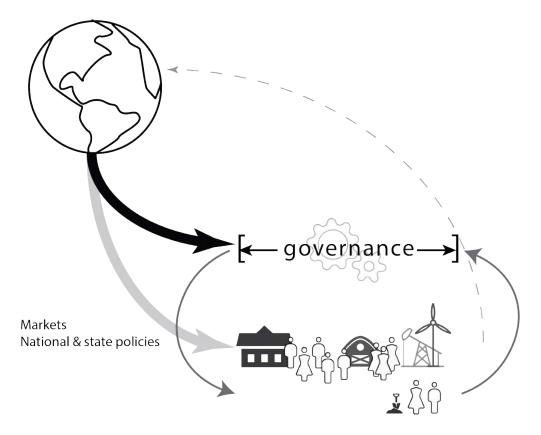
- Conversion risk: operators focus on local concerns, not at scale
- Land values: single biggest concern
 - Agglomeration poses risk to rural community resilience
 - Increased pressure on emerging ranchers could lead to more *intensification* &/or *innovation*



Rethinking Partnership as Community Resilience







Local & regional institutions:

- Landowner groups
- Conservation districts
- Natural resource collaborative groups
- Ad hoc associations & working groups
- Planning boards
- Community development agencies



agency and self-organization in response to change



Rethinking Old Roles



Emerging



Established



Transitioning

Strategic questions at hand...

How might we:



• **Direct capital** (human, financial, social) to resilient land uses?



• Build and strengthen bridges at multiple scales: family, community, region, beyond?



• Lead to lasting informal institutions that support a culture of interdependency and stewardship? Accelerate and improve inclusion of new private landowners?

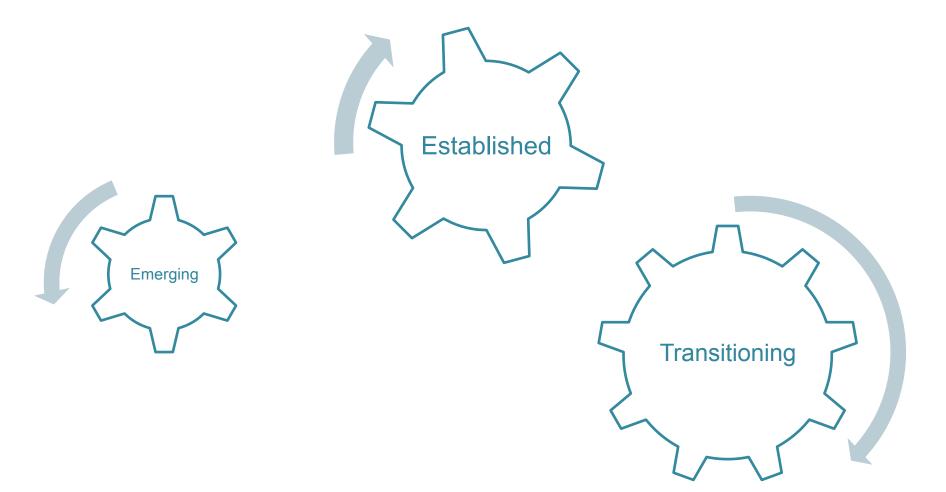
Thanks & keep in touch!

Julia.haggerty@montana.edu www.resources4communities.org

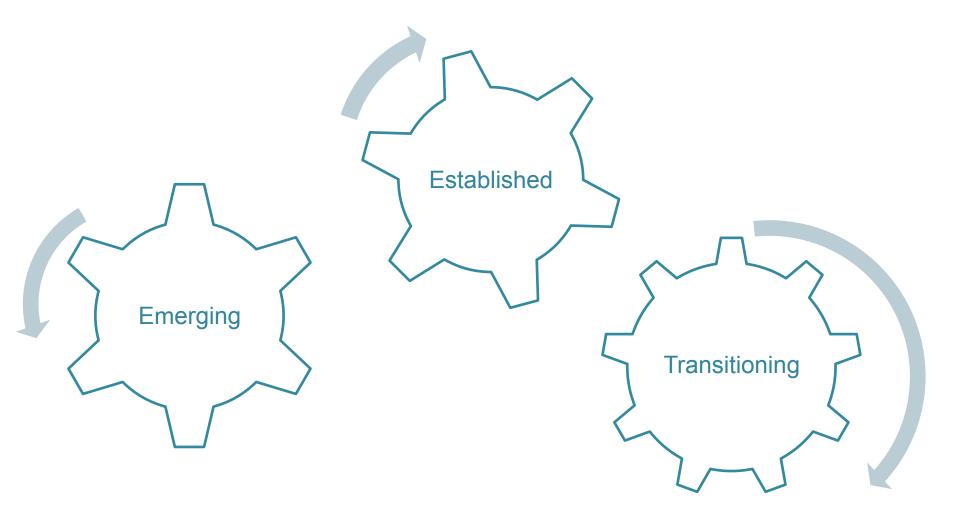
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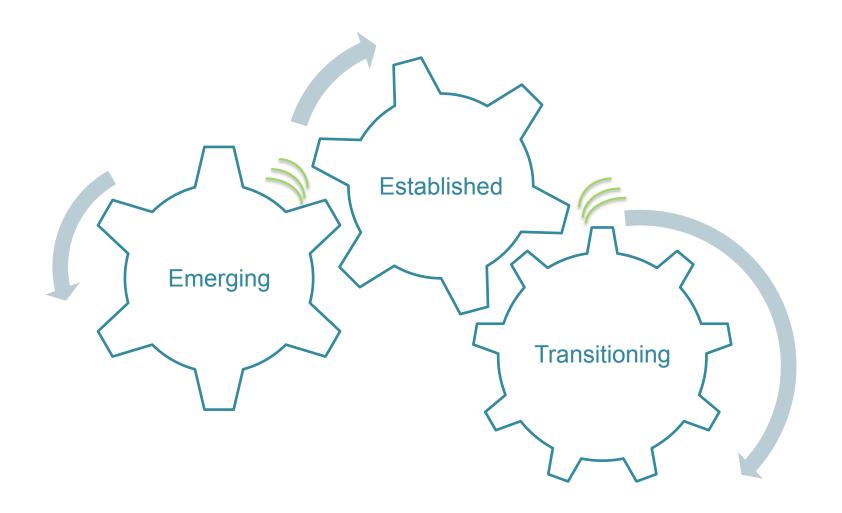


Conceptualizing the Intervention



Equalizing

.... across life cycles through sharing of capital and enhancing diversity and resilience of emerging operations



Connecting

.... across Ranch Generations (and types) – at family, community and regional scales; facilitated by a coalition of established ranchers and bridge organizations (e.g. WWF and partners)

Understanding human dimensions

Resilient ranching communities



Grasslands conservation



MSU approach

Focus producers' perspective on <u>opportunities and</u> <u>challenges</u> in the contemporary policy & economic environment

Geography | areas with working grasslands in Nebraska, South Dakota, Montana

Goal | inform useful, productive engagement between conservation NGOs and working landowners

Approach | socioeconomic data analysis, land ownership data, interviews with landowners/local experts (56); policy experts (6)

Key Findings: Land Prices and Access

- Steep increases in grassland valuation, driven both by crop price boom and amenity pressure with local idiosyncrasies
- Emerging ranchers most exposed to increasing valuation; Volume of land available also an issue
- Increasing insecurity of leases and lease prices a major concern



Key Findings: Capital, Finance, and Subsidies

- Availability of finance not a concern, amount of finance is
- Debt-comfort is cultural, personal
- Finance and access a hurdle, not a deterrent, newly established ranchers demonstrate major determination and creativity
- Subsidy programs disproportionately favor larger operations



Key Findings: Generations and Community

- Transition is a shock that tests system resilience
- Retiring rancher choices are influential: time of retirement, profit v. family/ community, etc.
- Concern about aging demographics and community assets
- Sense of alienation from policy makers and consumers



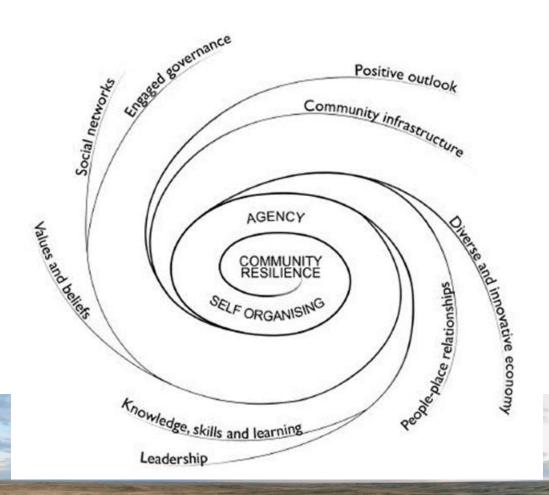
Community Resilience

Is networked capacity for robust, redundant and timely responses to shocks (economic or natural).

In ranching communities:

- Options for newcomers
- Land & property patterns
- Access to good info.
 Time & space to connect

Measuring is building!



Communities in Action Case Study

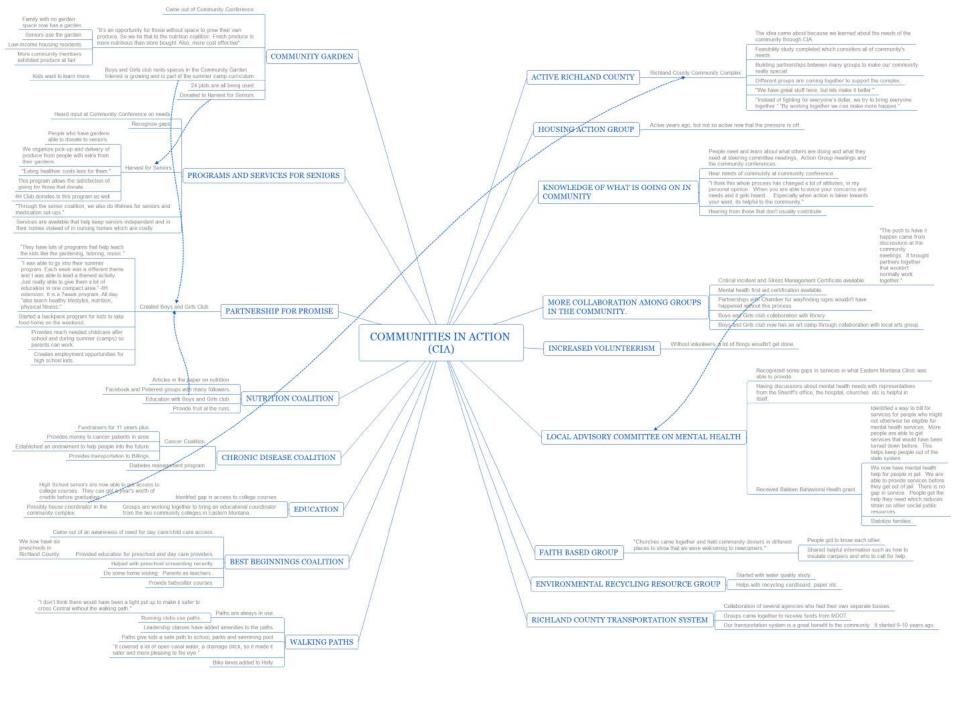


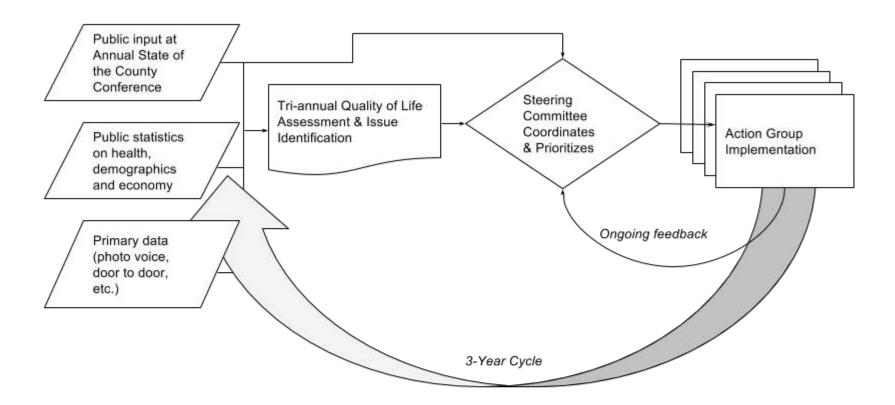
Est'd 2005 to unite diverse community leaders to promote quality of life in Richland County

Adapted MAPP process: 15-member steering committee with "action groups"

20 completed projects since 2005

Ongoing data collection and assessment





Recommendations

- Conduct an assessment of patterns of large ranch ownership (types of top 25 and quartiles) on an annual basis to track change
- As an outreach and community-building strategy, consider trialing a
 participatory resilience assessment approach merging the RA assessment
 method with focus groups and discussions around perceived community
 resilience; excellent venue for engaging student workers and volunteers
- Consider the benefits adding an index of county-level socio-economic variables to complement ecological monitoring, based on adapting social vulnerability models with modification to incorporate farm income data
- Use the IPCR framework to inform and seed conversations about community well-being and aspirations in focal areas

County land tenure analysis

- Meade Co, SD; Blaine Co, MT; Cherry County, NE
- Procure digital cadastral records
- Homogenize large agricultural land owners by street address and name
- Assess distribution and types among large ranches, using key informants (1 per county) with ranch real estate and local expertise



Interview approach and methods

56 unique interviews with academics, extension specialists, private and public loan officers, NRCS agents, industry professionals, ranchers, farmers and others across the NGP, including:

- 33 ranchers, mixed-operation ranchers, and 1 farmer.
 - 10 from Cherry County, NE focal area
 - 12 from Meade, Butte, Harding Counties, SD focal area
 - 12 from Valley, Phillips, Blaine Counties, MT focal area

Semi-structured interviews focused on constraints, challenges and opportunities

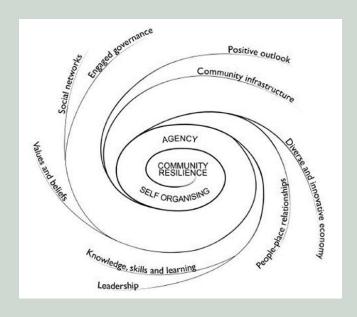
Outcomes for conservation

- Conversion risk: operators focus on local concerns, not at scale
- Land values: single biggest concern
 - Agglomeration poses risk to rural community resilience
 - Increased pressure on emerging ranchers could lead to more intensification



Next steps for WWF

- Develop human/community indicators to track annually
- Develop innovative financial tools and other means of directing capital to resilient land uses
- Support community-based stewardship efforts







Recent activities



Bird surveys and analysis



Capacity-building grants



Communications



Stewardship recognition and educational support



Engagement with industry and rancher-led organizations

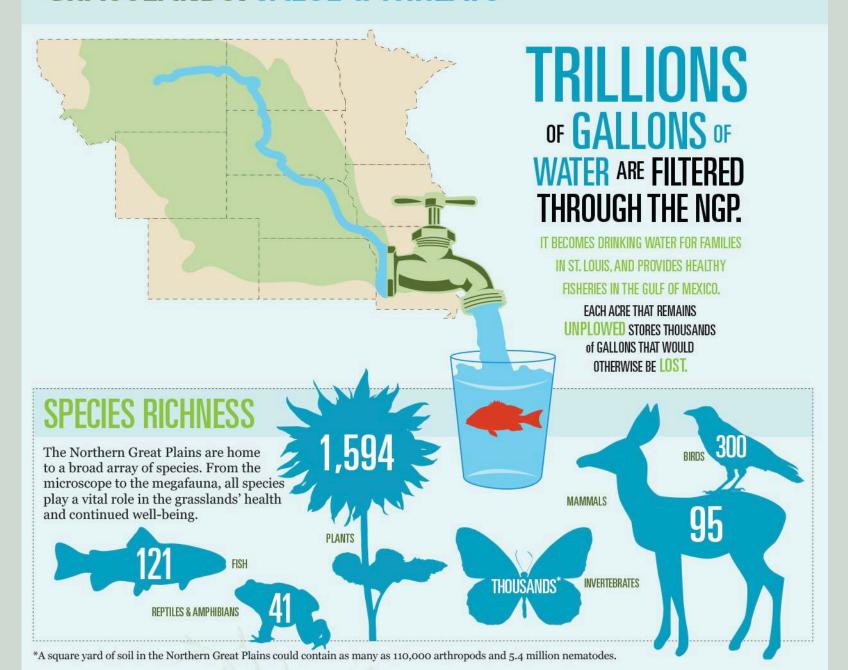


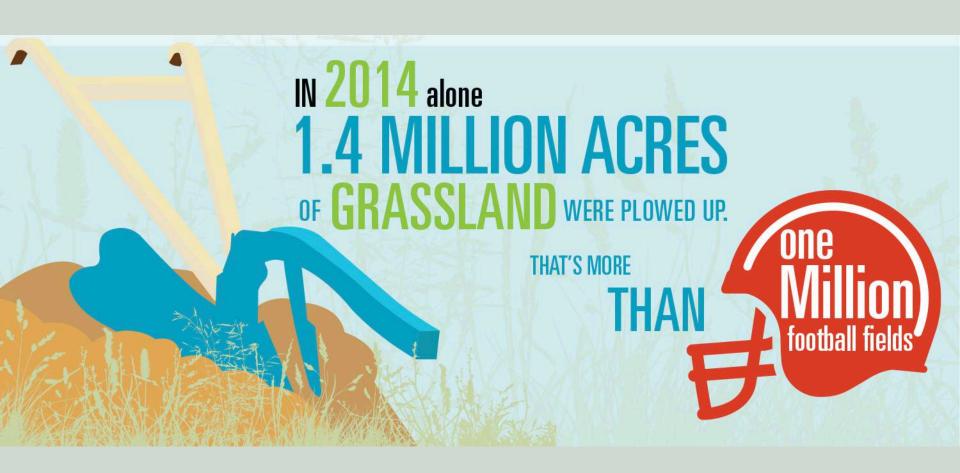
Market stakeholder influence



Partner engagement

GRASSLANDS: VALUE & THREATS





Today's goals