Roadblocks to implementation and policies that create roadblocks

Photo by Warren Beck, Univ. of Arizona

Outline

- Statement of issue
- Initial Barriers to implementation of comprehensive control efforts
- Policy issues creating barriers
- Actions taken and lessons learned
- Remaining unmet needs



Statement of issue



By Greg McNamee

DESERTS DO NOT burn. Parched, unwatered, swept by dehydrating winds, the deserts of the world are marked by a scarcity of plant life. Thinly spread across the landscape, desert plants do not grow densely enough to fuel the conflagrations that sweep periodically through forests and prairies. Those fires that do start out among the creosote bush or spinifex, the ghost-gums or baobabs, caused by lightning or the casually tossed cigarette, are small and self-contained. When an unfortunate desert plant does go up in flames, it kindly spares its neighbors--if only because its neighbors are far away. Buffelgrass (*Pennisetum ciliare*), a fire-prone African bunchgrass, is spreading rapidly across the increasingly urbanized, desert landscapes of southern and central Arizona.



Ongoing are:

Escalating fire risks in what used to be a fireproof and maintenance-free desert landscape

Rapid conversion of Sonoran Desert to African savannah

Threats to prominent national parks, forest land, and conservation properties

Threats to viewscapes and landscapes at popular tourist destinations

Despite advanced stage of spread, economic impacts still greatly exceed costs of control

Initial barriers to implementation

- Lack of scientific community agreement
- Lack of understanding of plant
- Lack of definitive scopes of invasion
- Lack of public and community leader awareness
- Limited funding availability
- Complex jurisdictional boundary issues

Policy issues creating barriers

- Status of buffelgrass as a noxious weed in Arizona
- Continuing USDA buffelgrass research efforts
- Expanding utilization of buffelgrass in MX
- Control limitations on private lands
- Land disturbance as a primary source of expanding invasion corridors

Arizona Statute R3-4-244 Regulated and Restricted Noxious Weeds

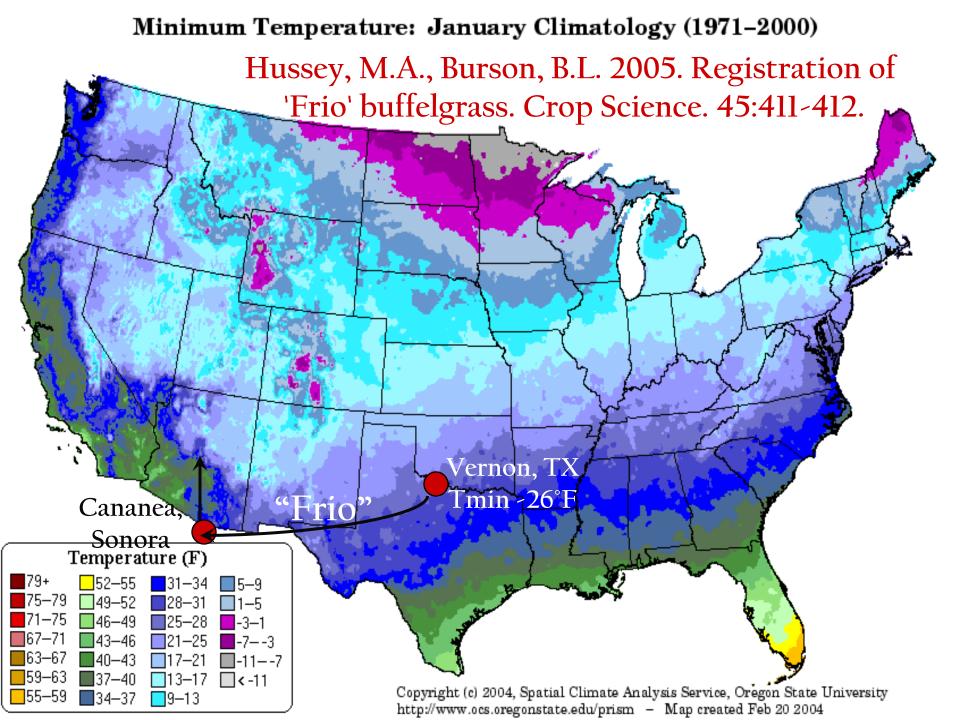
Listed 3/05; Approved 12/06/05

State now has authorization to control buffelgrass infestations, but is only required to do so when the Dept of Ag determines that they are a threat to critical resources

No new strains can be imported from other states & territories in US... but they can be imported from other countries and can be transported through AZ

Russo, E. 2004. Cooperation urged on invasives. *The Scientist*, March 22, 2004.

"Government agencies are not only failing to cooperate, but....are even working against each other, said Ann Bartuska, deputy chief for research & development at USDA Forest Service....while the National Park Service was attempting to prevent buffelgrass...from spreading to parklands....the USDA was simultaneously developing a hardier, cold-resistant buffelgrass strain."



Northern Mexico: Buffelgrass actively planted in Sonora, Chihuahua, Tamaulipas, and Nueva Leon, millons of acres already converted

Photo: Tom Van Devender

Empty lot in Tucson, AZ (Grant Rd.)





Wealthy housing subdivision in Pima County

4360

Roadside dispersal of buffelgrass



Interstate 10 in Eastern Pima County



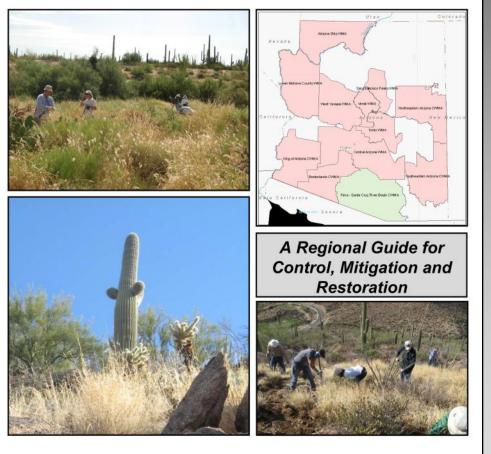
Actions taken and lessons learned

- Buffelgrass Summit
- Establish Buffelgrass Working Group
- Buffelgrass Strategic Plan
- Buffelgrass Field Inspection
- Southern Arizona Buffelgrass Coordination Center
- Pima County BOS Resolutions
- Pima County Ordinance Changes

Buffelgrass Summit, Feb. 9, 2007, Starr Pass Marriott Resort



Southern Arizona Buffelgrass Strategic Plan



- Minimize spread in areas where buffelgrass not yet established
- Implement control priorities based on actual & potential impacts
- Restore treated areas in ways that increase resilience against future invasion
- In areas where control is no longer feasible, mitigate fire risks to life & property
- Motivate legislation aimed at sustaining the control effort
- Create a template for invasive sp mgmt in AZ





SAHBA the community builder

Tucson Metropolitan Chamber of Commerce

Southern Arizona Lodging & Resort Association

Southern Arizona Home Builders Association

Community And Economic Development Pima County Community And Economic Development



Catalina Foothills Buffelgrass Field Conference March 3, 2008

Dana Backer Saguaro Natl Park Lisa Graumlich U of AZ Mayor Walkup Kristin Almquist

> Jim Kiser SALC



Purpose & Need:

- To maintain consistent long-term commitment
- To increase control and management proficiency
- To eliminate duplicative efforts

Coordination of regional buffelgrass management is needed to:

- Enable partners to sustain ecological goods and services essential for tourism, recreation, and quality of life
- Lessen threats to both endangered and iconic species (saguaro, paloverde, ironwood)
- Create firebreaks that keep potential fire size from exceeding 100 acres, and prevent ignition fronts in desert valleys from spreading into our national parks and forests
- Reduce fire suppression costs while also protecting lives, public infrastructure, and private property

Examples of Performance Metrics 0-2 yrs

- Raise minimum of \$2 million in cash
- Consistent policies (adopted and enforceable)
- Establish routine treatments by all jurisdictions
- Buffelgrass management on 1,000 acres (treated)
- 200 financial contributors
- Hot Spots identified in Strategic Plan fully mapped
- Total volunteer hours increased by 10,000 hours
- Annual updates to Strategic Plan
- 25% of HOA's have complete buffelgrass removal
- 10% of businesses qualify for a 'Certificate of Removal'
- Contingency plan approved by public, non-profit, and corporate stakeholders
- Public awareness survey (baseline)
- Protocols developed and revised
- Host first biennial meeting (Year 2)
- Advise key stakeholders (SAHBA, utilities, conservation, insurance, tourism, etc.)
- Assess risk of fires exceeding 100 acres (mapping)

Pima County Ordinances

- Dept of Environmental Quality
 - Requirement to remove buffelgrass on private property based on illegal dumping rules
- Development Services
 - New developments and rezonings required to remove and monitor buffelgrass for 5 years

Remaining unmet needs

- A uniform sense of urgency that action must be taken now
- Meaningful control efforts at the landscape level
- Commitment of stable, multi-year funding from primary jurisdictions and land management agencies
- Key policymaker involvement/commitment to multiyear control efforts
- Definitive mapping data of invasion distribution, infestation levels, control effectiveness

For more information, please feel free to contact:

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