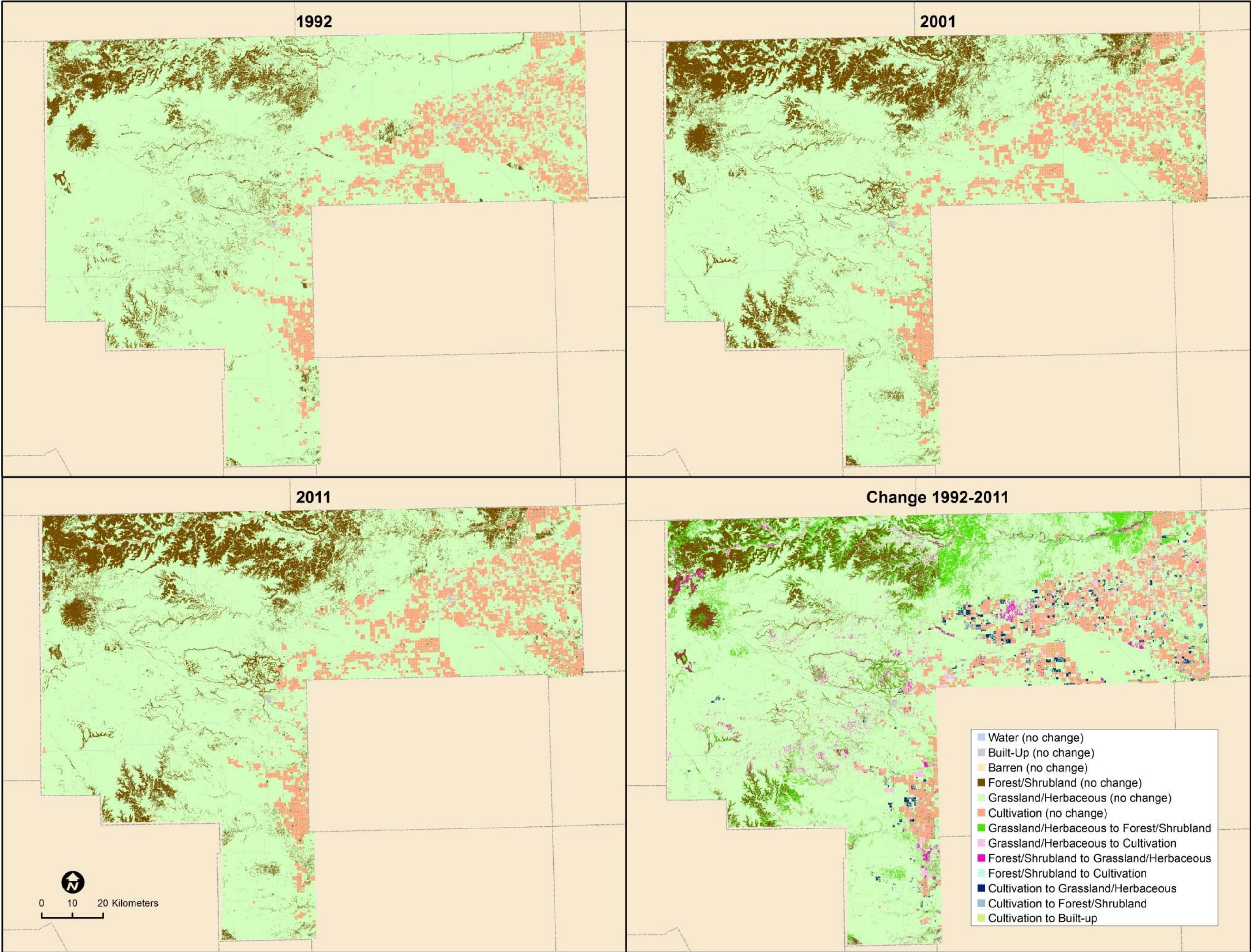


# Land-use/Land-cover change in Cimarron County, OK and Union County, NM 1992-2011



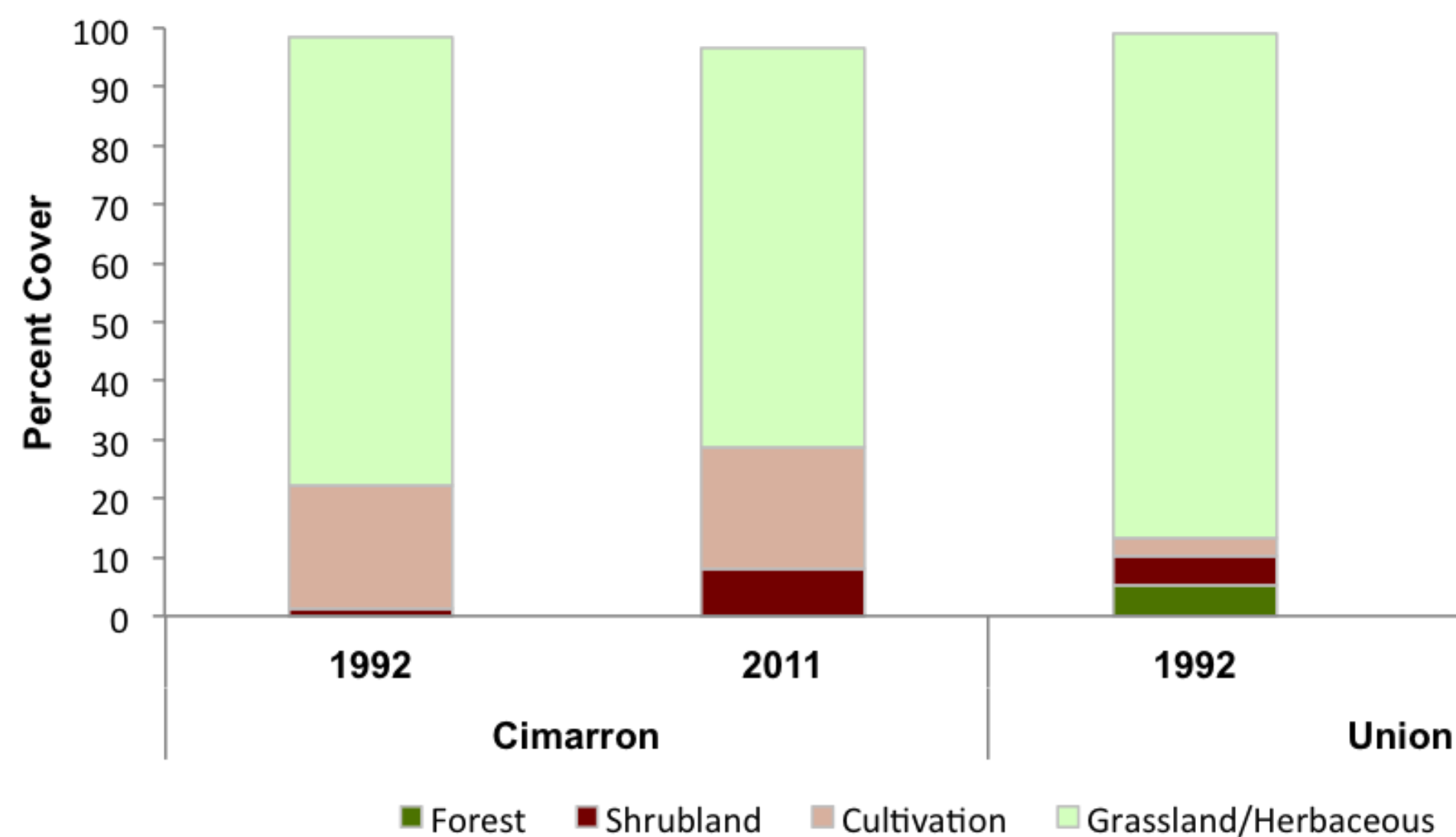
Project funded by National Science Foundation Grant 1266381: "Land System Vulnerability and Resilience to Drought: A Multi-Scalar, Comparative Analysis of Public and Private Lands in the American West." Jacqueline M. Vadjunec, Todd D. Fagin, and Brenda D. Phillips. Any opinions, findings, & conclusions or recommendations are those of the authors and do not reflect the views of the NSF. For more information, contact Todd Fagin: tfagin@ou.edu



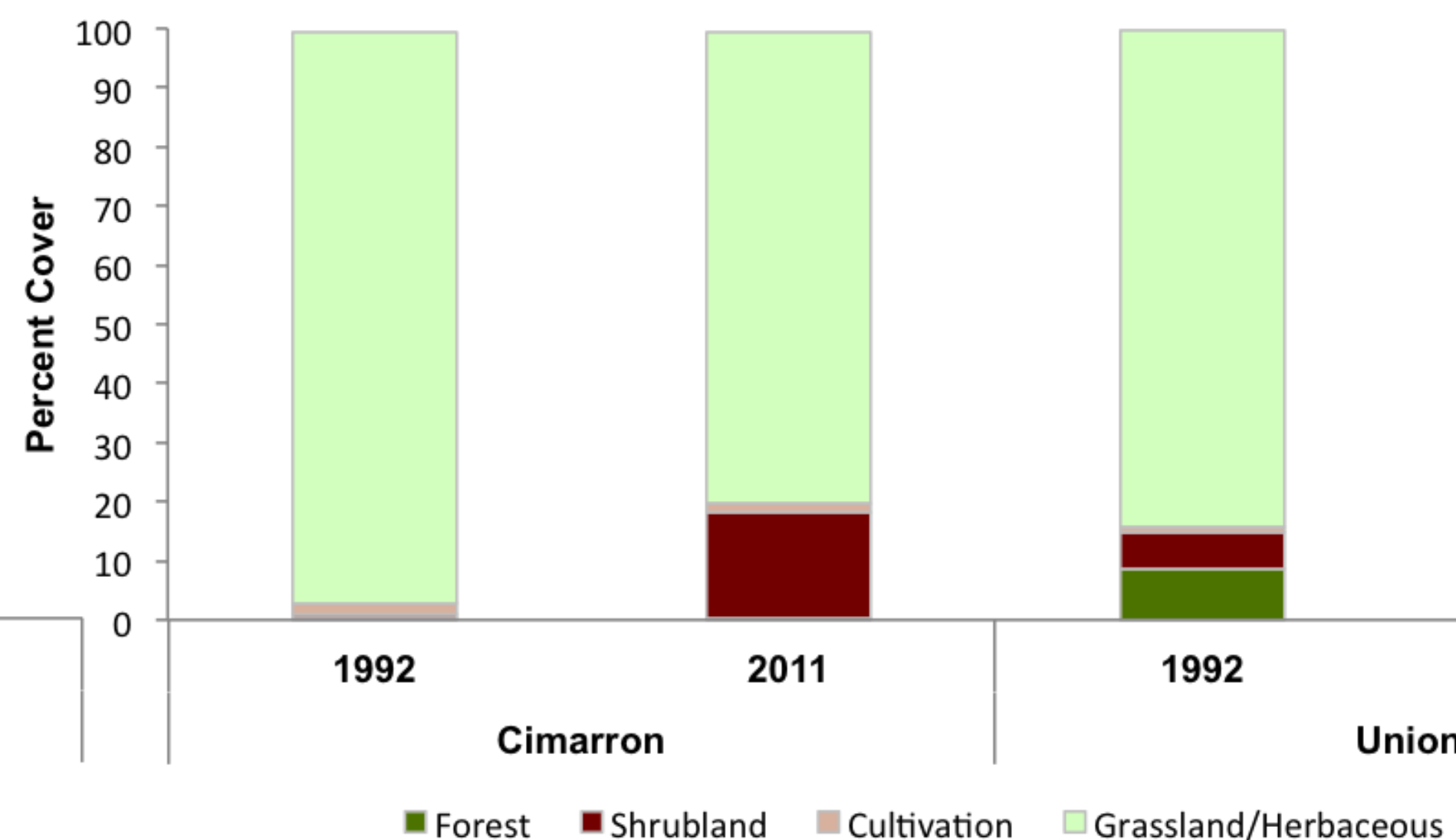
# LULCC Transitions 1992-2011 on Public/Private Lands



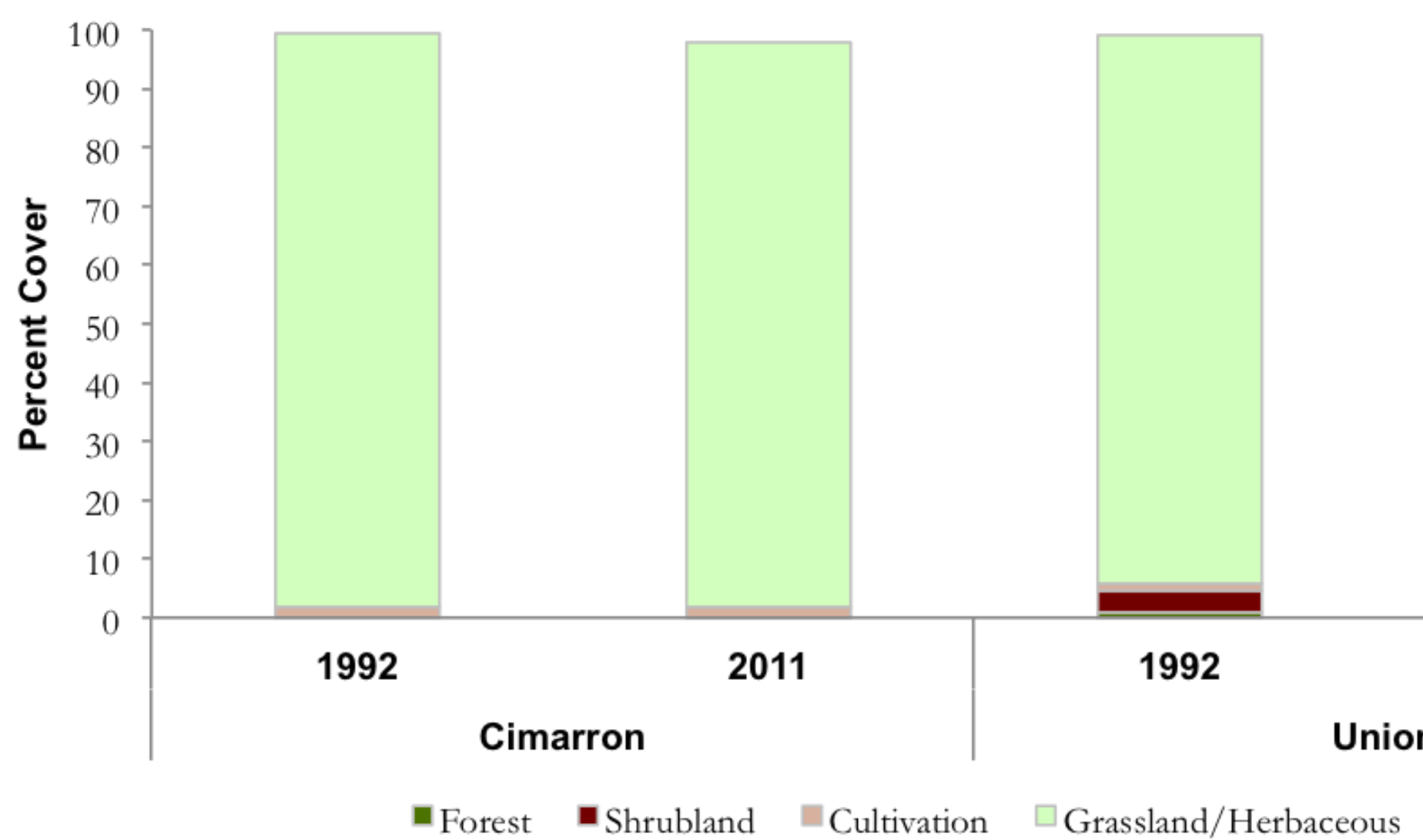
## Countywide\*



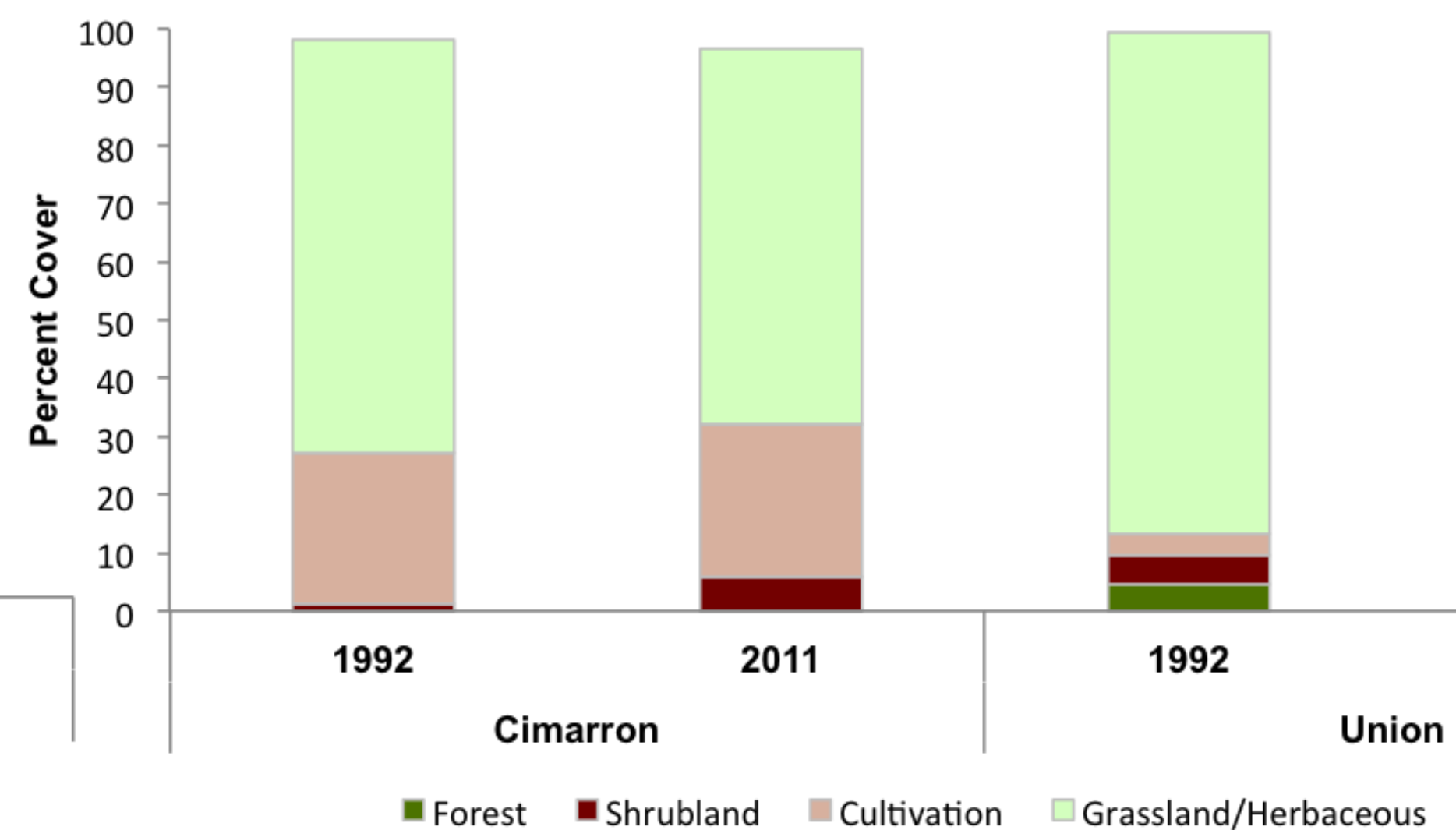
## State Trust Lands\*



## Federal Lands

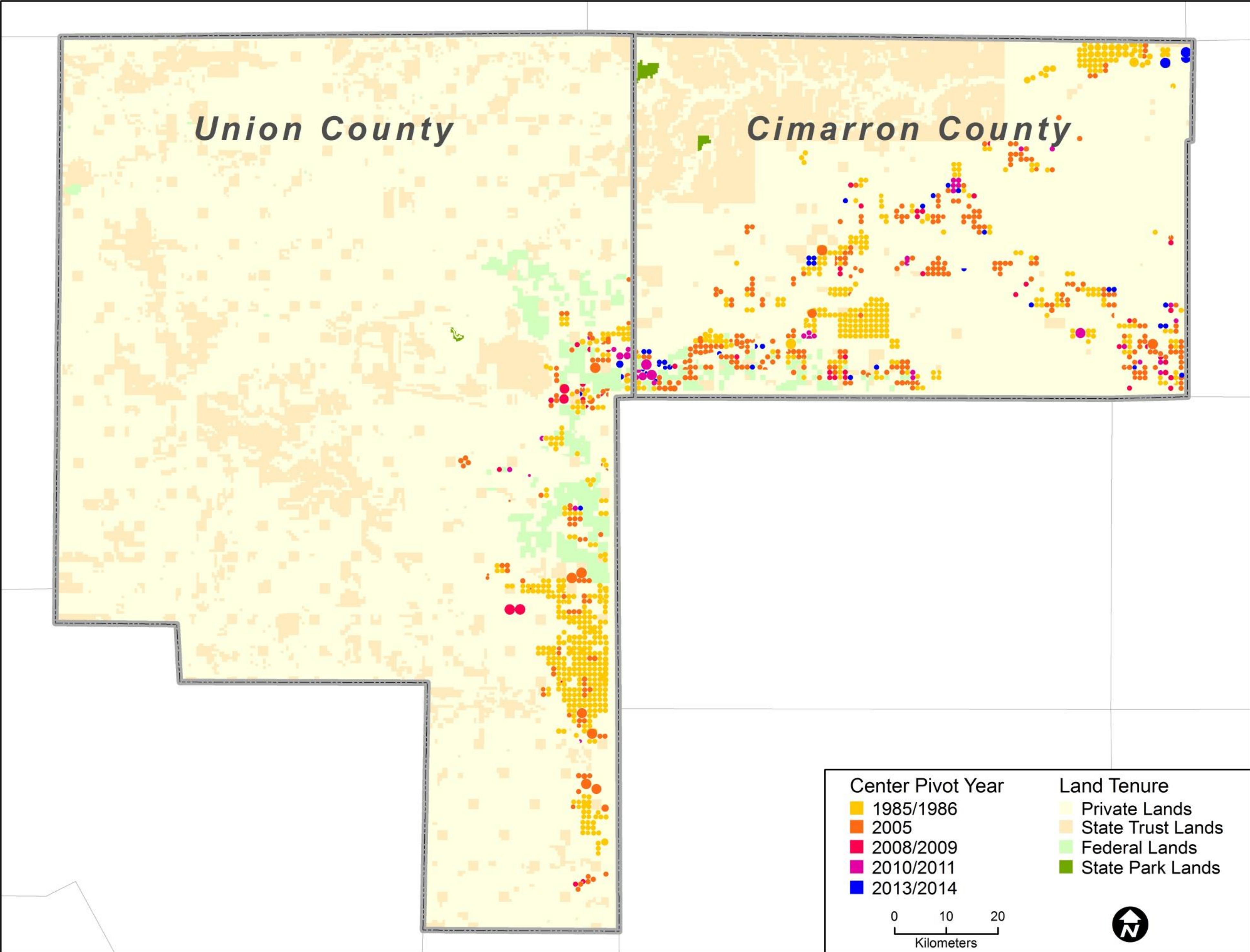


## Private Lands



\* Stat sig at 0.05

Cumulative CPI Growth\* in Cimarron County, OK and Union County, NM 1985-2014 (\*Ogallala only)

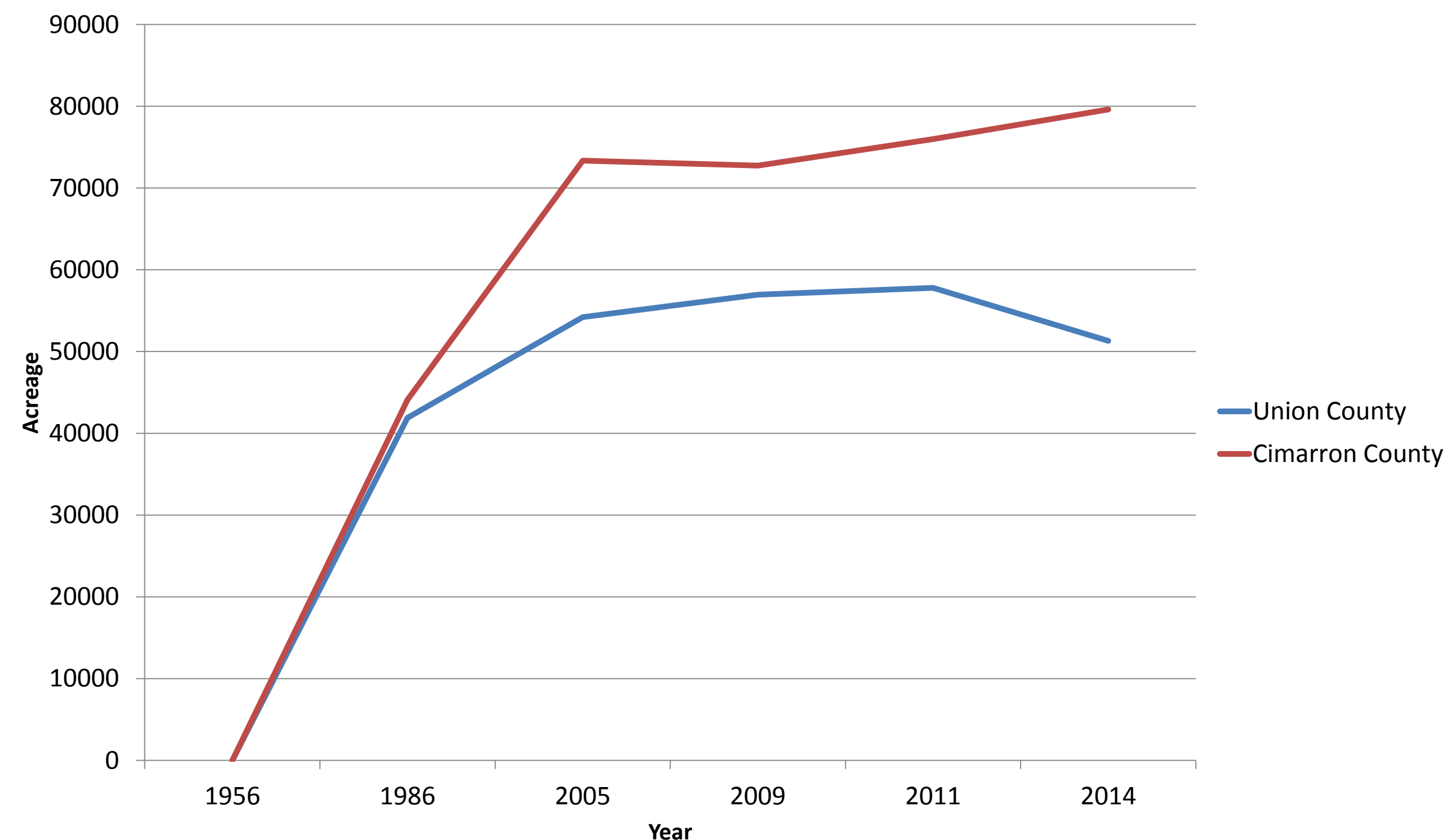


# Changing Center Pivot Irrigation in Union County, NM & Cimarron County, OK

Cumulative CPI Acreage 1986-2014,  
Union County, NM and Cimarron County, OK

| Years     | # New CPI |     | New CPI Acreage |        |
|-----------|-----------|-----|-----------------|--------|
|           | UC        | CC  | UC              | CC     |
| 1986/1985 | 341       | 342 | 41,889          | 44,089 |
| 2005/2005 | 447       | 629 | 56,647          | 80,049 |
| 2009/2008 | 463       | 660 | 59,477          | 83,711 |
| 2011/2010 | 473       | 689 | 60,656          | 88,490 |
| 2014/2013 | 477       | 730 | 61,147          | 93,633 |

Total CPI in Acres in Union County, NM  
and Cimarron County, OK



30 Year (1985-2015) and 10 Year (2005-2014) Percent Change in Total CPI Acreage

|                          | Union County, NM | Cimarron County, OK |
|--------------------------|------------------|---------------------|
| ~30 year % Change in CPI | 22.48%           | 80.5%               |
| ~10 Year % Change in CPI | -5.37%           | 8.54%               |

