DCBR

Darwin Centre for Bushfire Research

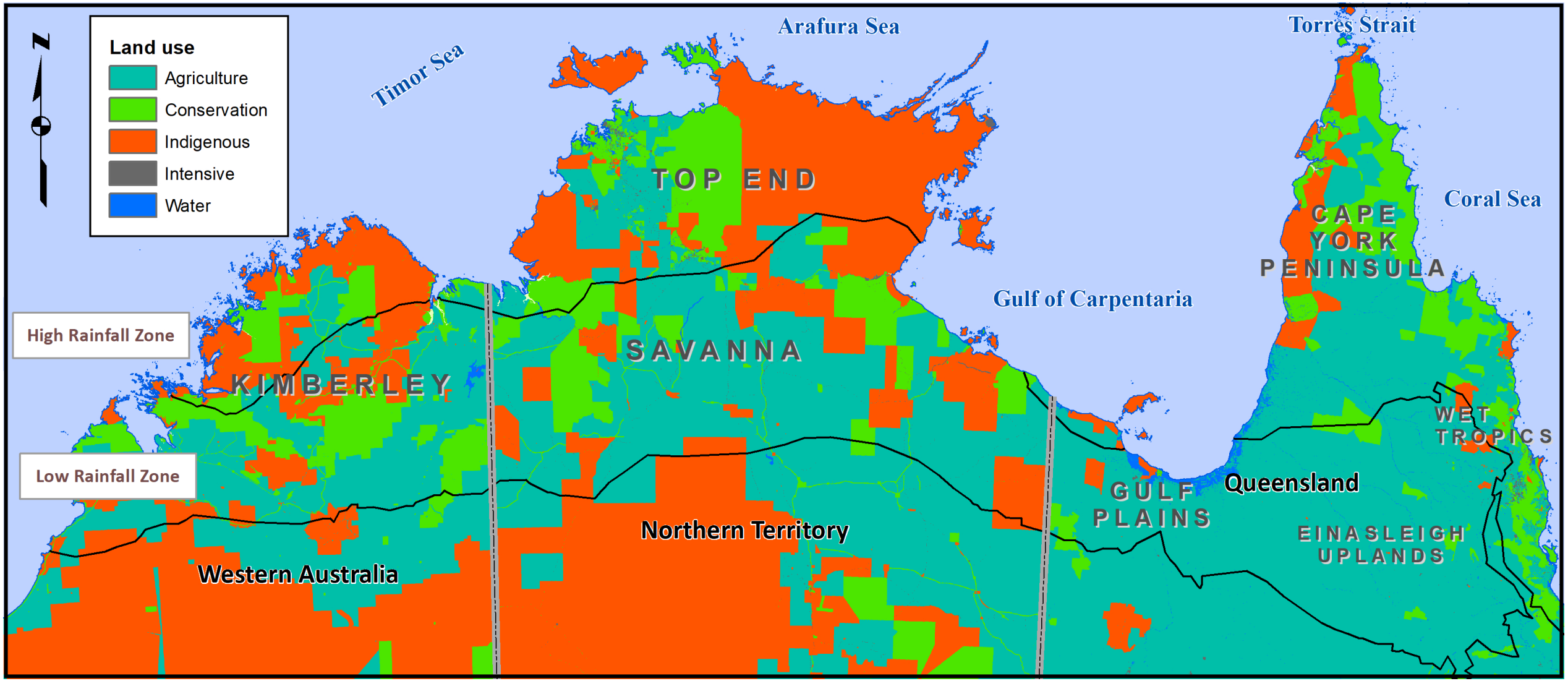
Dr Andrew Edwards

Fire & Biodiversity

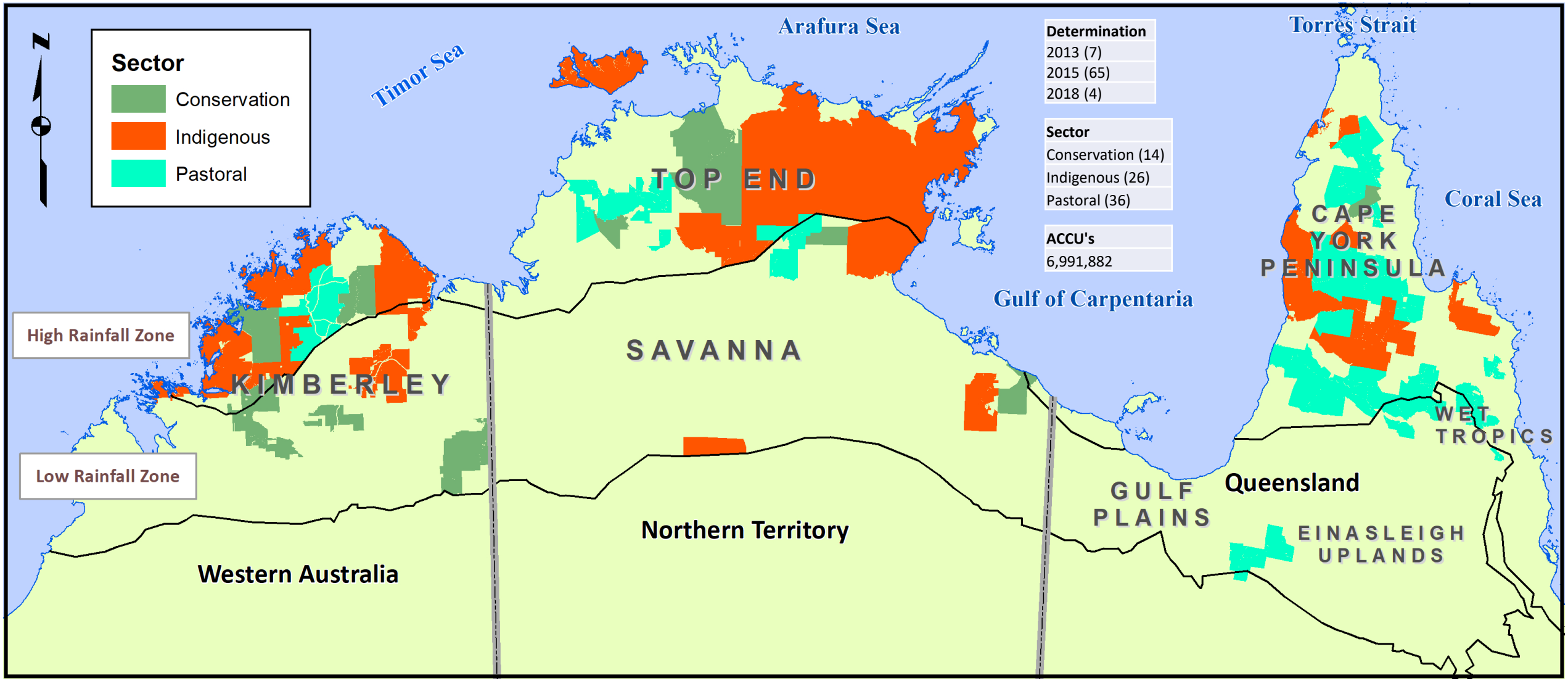
In what ways has fire management changed?

- Seasonality
- Long unburnt areas
- Impacts on riparian vegetation
- Impacts on jungles

North Australia: Major Land Use



Registered Savanna Burning Projects



to 22 Oct 2019

Kimberley, Western Australia

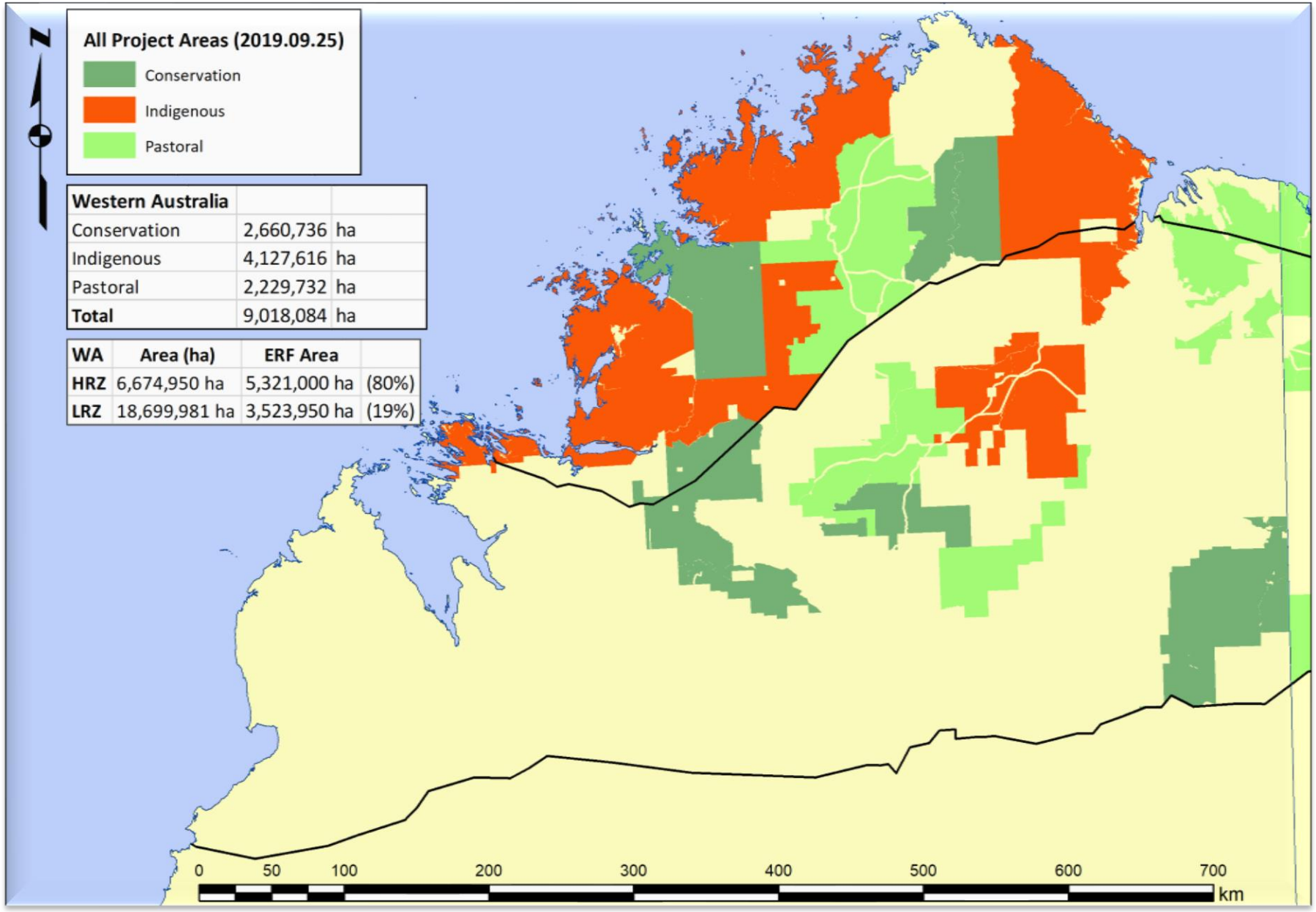
Comparing the **pre-program period** (2000-12) to the **program period** (2013-19).

In Project Area

	Conservation	*Indigenous*	*Pastoral*
EDS	13%-20%	13%-26%	24%-36%
LDS	24%-15%	26%-12%	35%-18%

Outside Project Area

	Conservation	*Indigenous*	*Pastoral*
EDS	14%-17%	13%-17%	11%-11%
LDS	21%-17%	24%-20%	19%-17%



Western Australia		
Conservation	2,660,736	ha
Indigenous	4,127,616	ha
Pastoral	2,229,732	ha
Total	9,018,084	ha

WA	Area (ha)	ERF Area	
HRZ	6,674,950 ha	5,321,000 ha	(80%)
LRZ	18,699,981 ha	3,523,950 ha	(19%)

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NAFI

Northern Territory

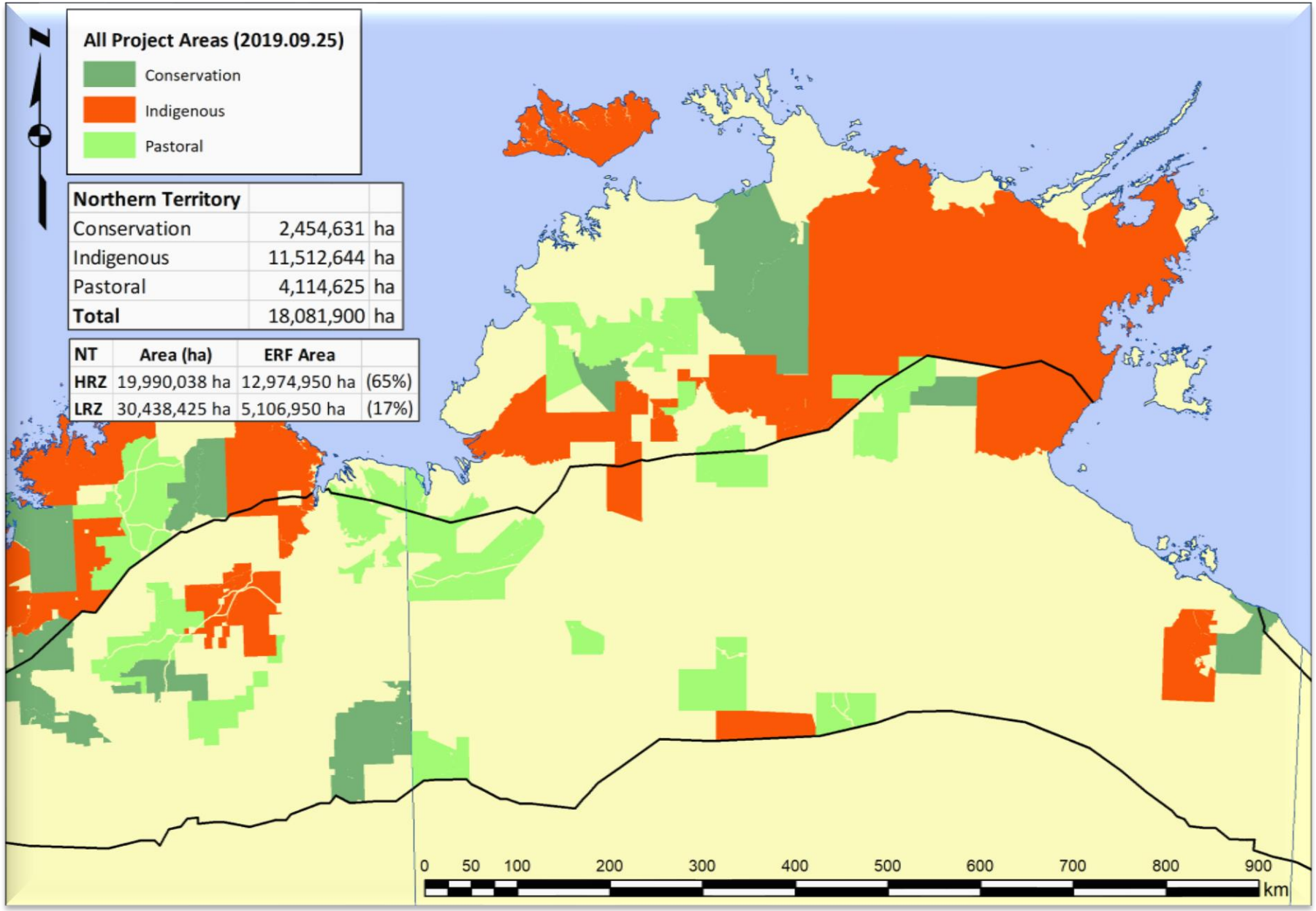
Comparing the **pre-program period** (2000-12) to the **program period** (2013-19).

In Project Area

	Conservation	*Indigenous*	*Pastoral*
EDS	32%-34%	**14%-27%**	35%-32%
LDS	17%-13%	**30%-13%**	**19%-11%**

Outside Project Area

	Conservation	*Indigenous*	*Pastoral*
EDS	24%-25%	17%-19%	6%-15%
LDS	17%-14%	**23%-16%**	**21%-13%**



NAFI

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Northern Territory

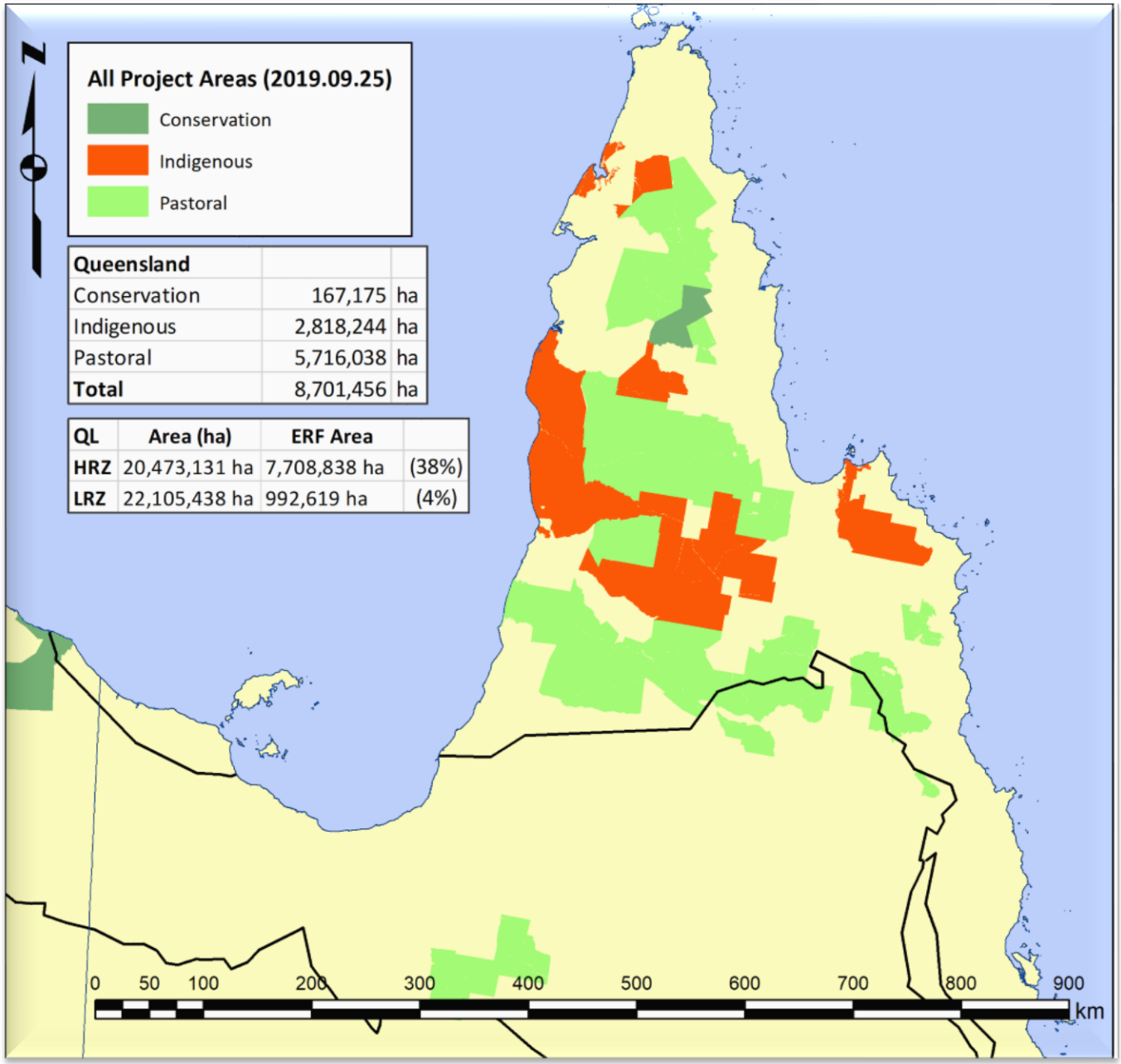
Comparing the **pre-program period** (2000-12) to the **program period** (2013-19).

In Project Area

	Conservation	*Indigenous*	*Pastoral*
EDS	28%-34%	**10%-24%**	**7%-10%**
LDS	**45%-15%**	**49%-13%**	**39%-23%**

Outside Project Area

	Conservation	*Indigenous*	*Pastoral*
EDS	**6%-8%**	9%-11%	2%-2%
LDS	20%-17%	30%-28%	**16%-11%**



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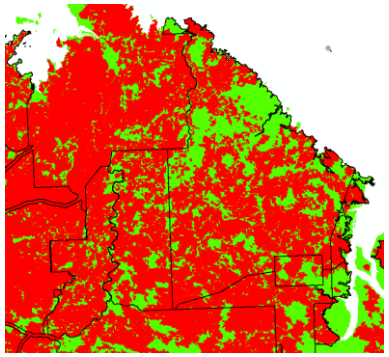
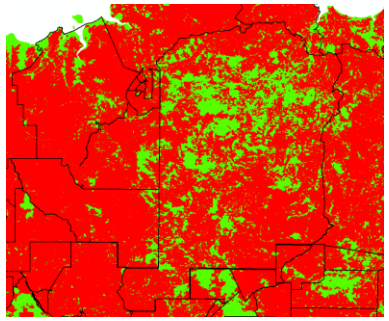
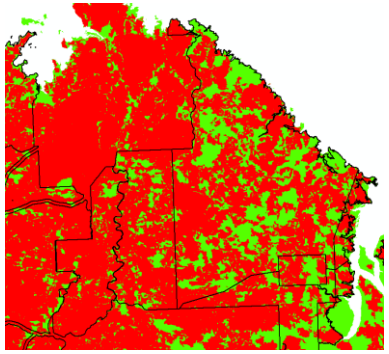
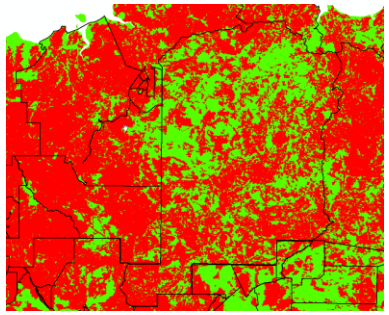
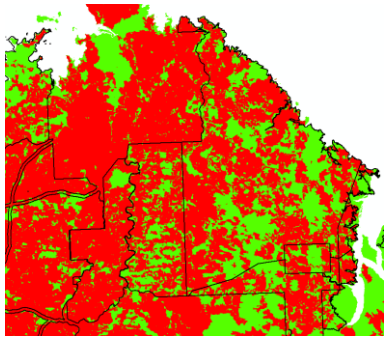
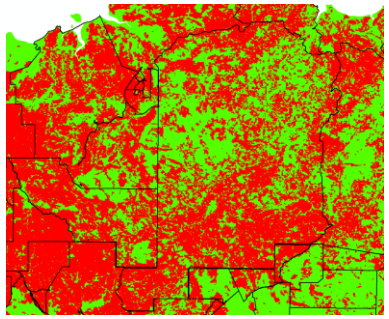



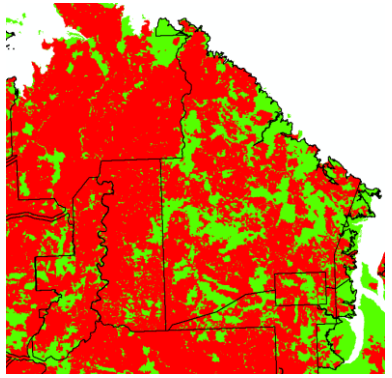
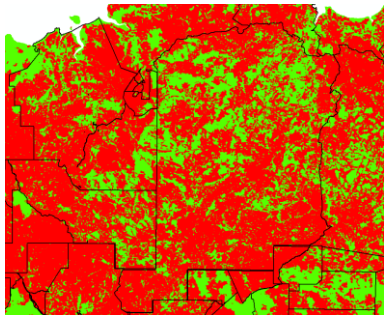
2006-15

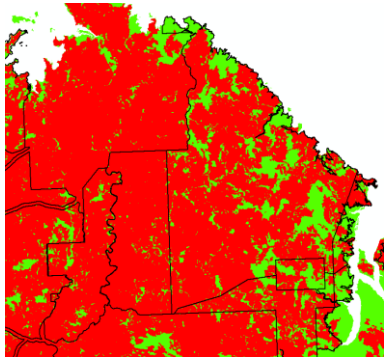
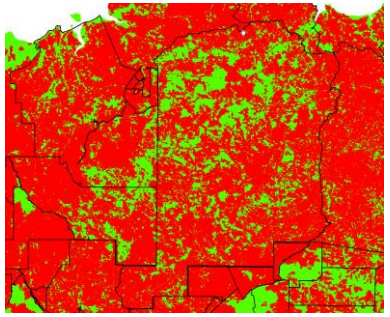
2007-16

2008-17

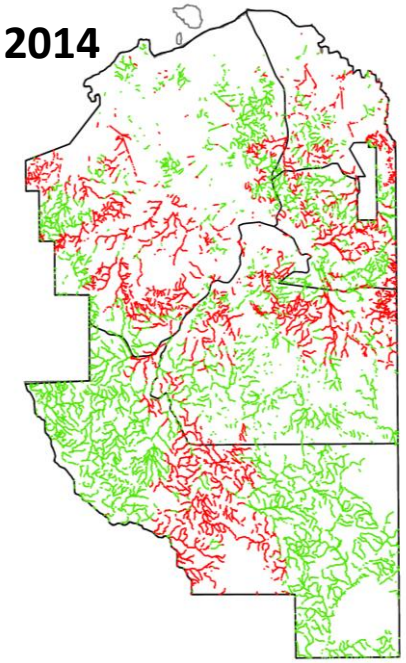



2009-18

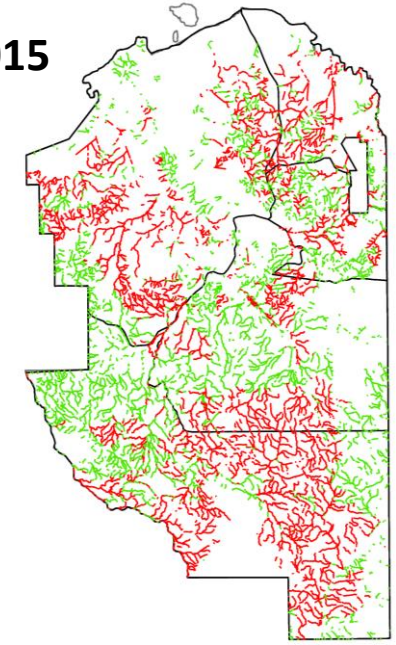



2010-19

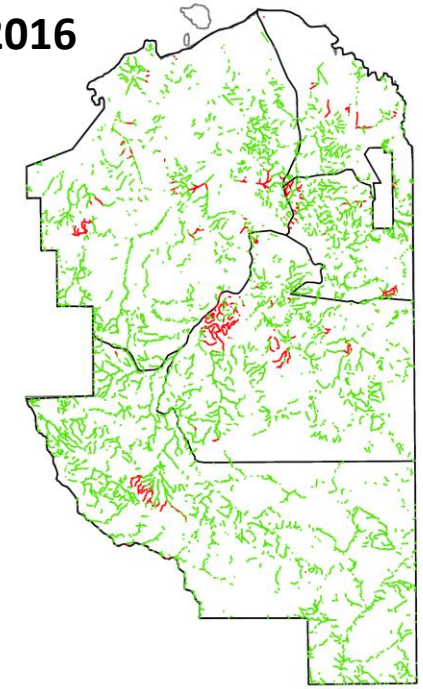
2014



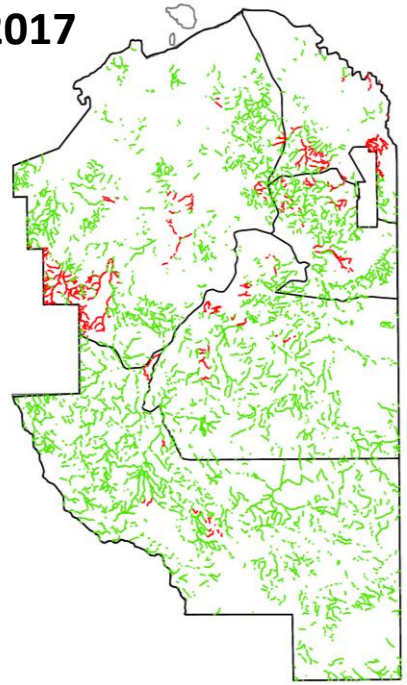
2015



2016

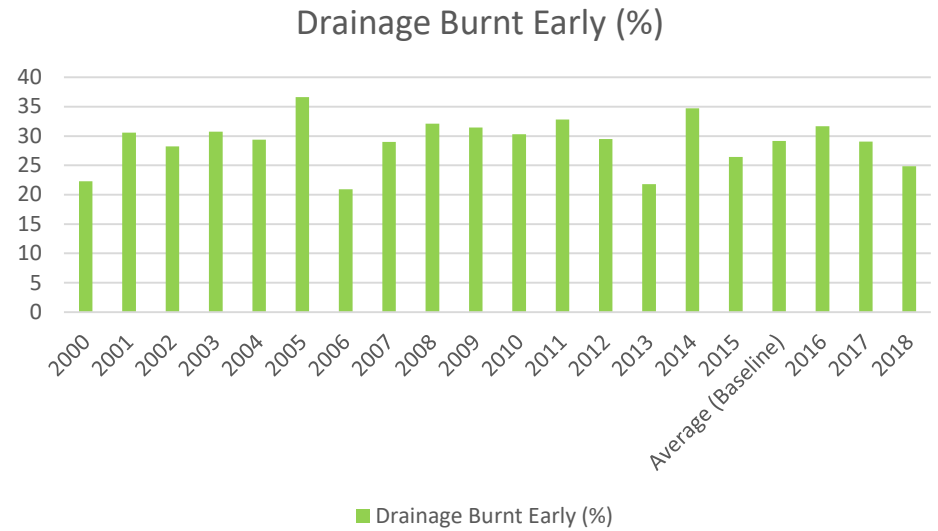


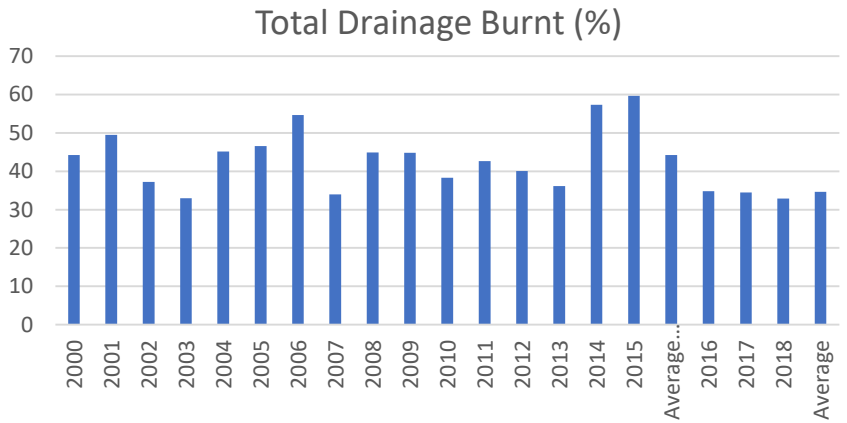
2017

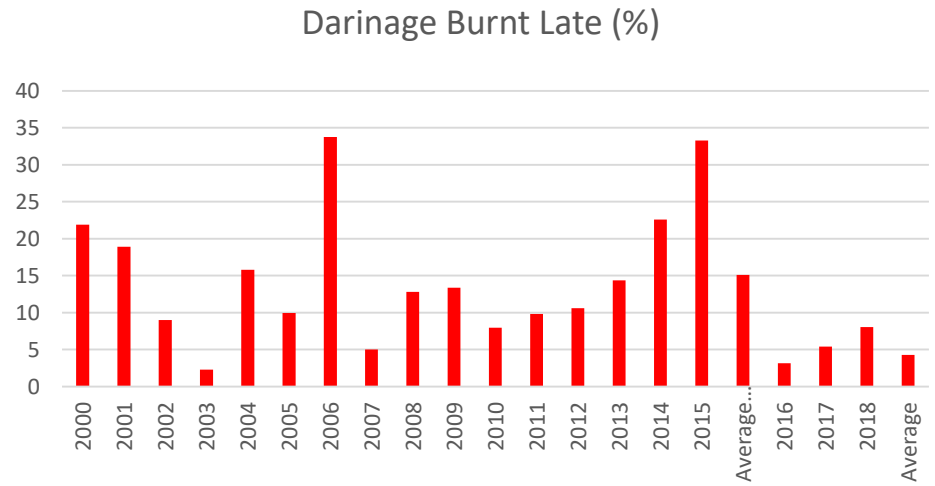


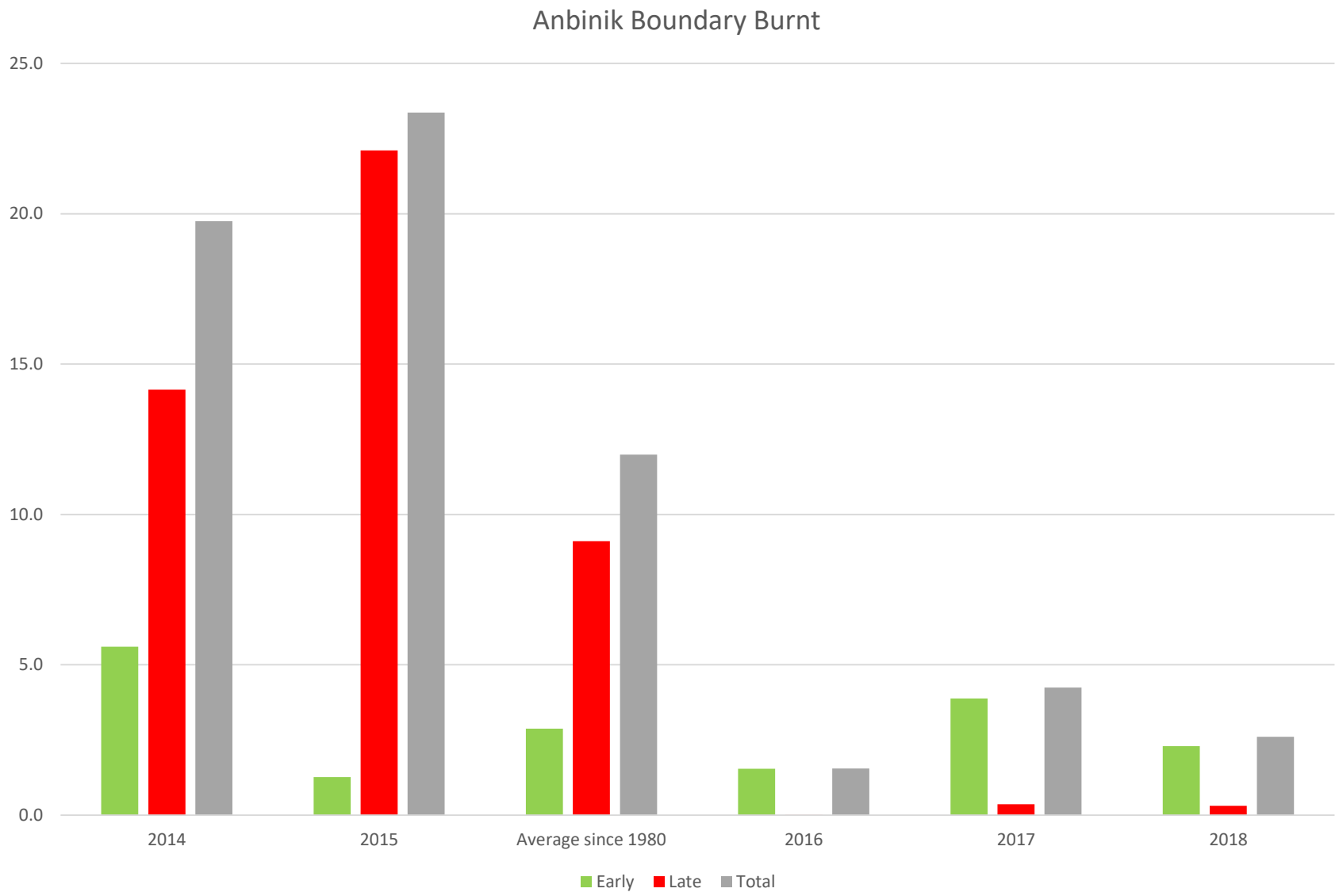
Drainage Lines Burnt

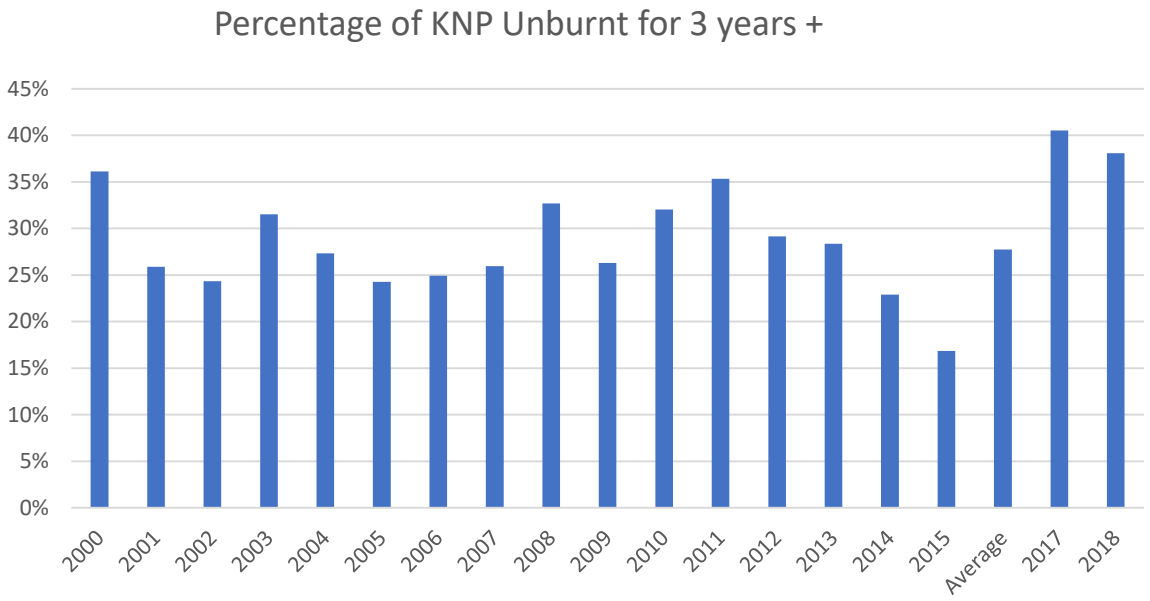
Drainage Lines Burnt



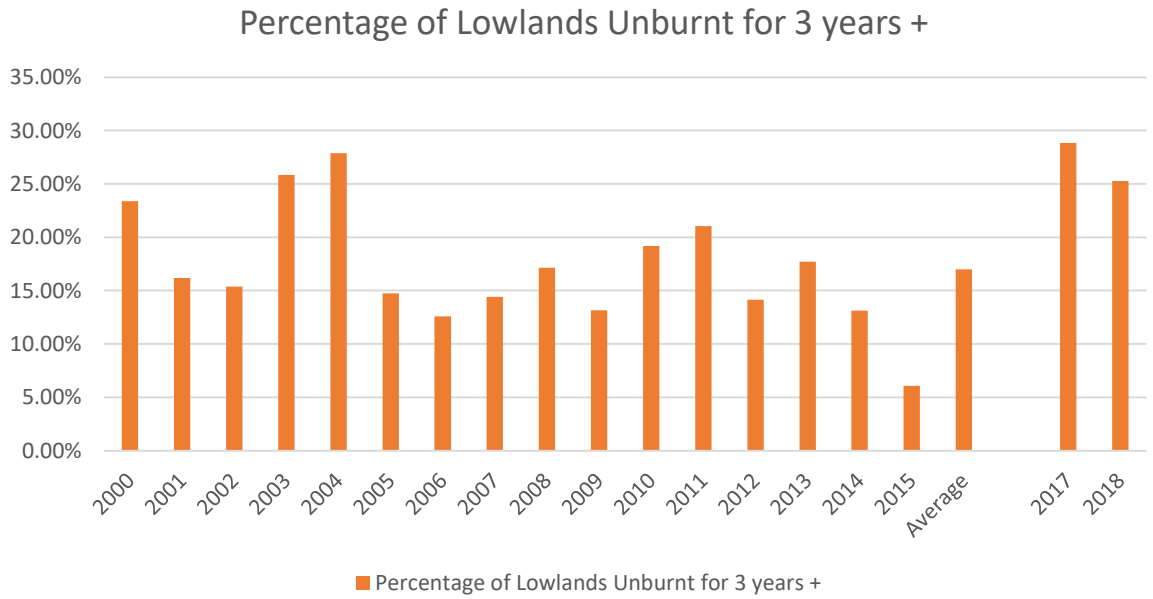




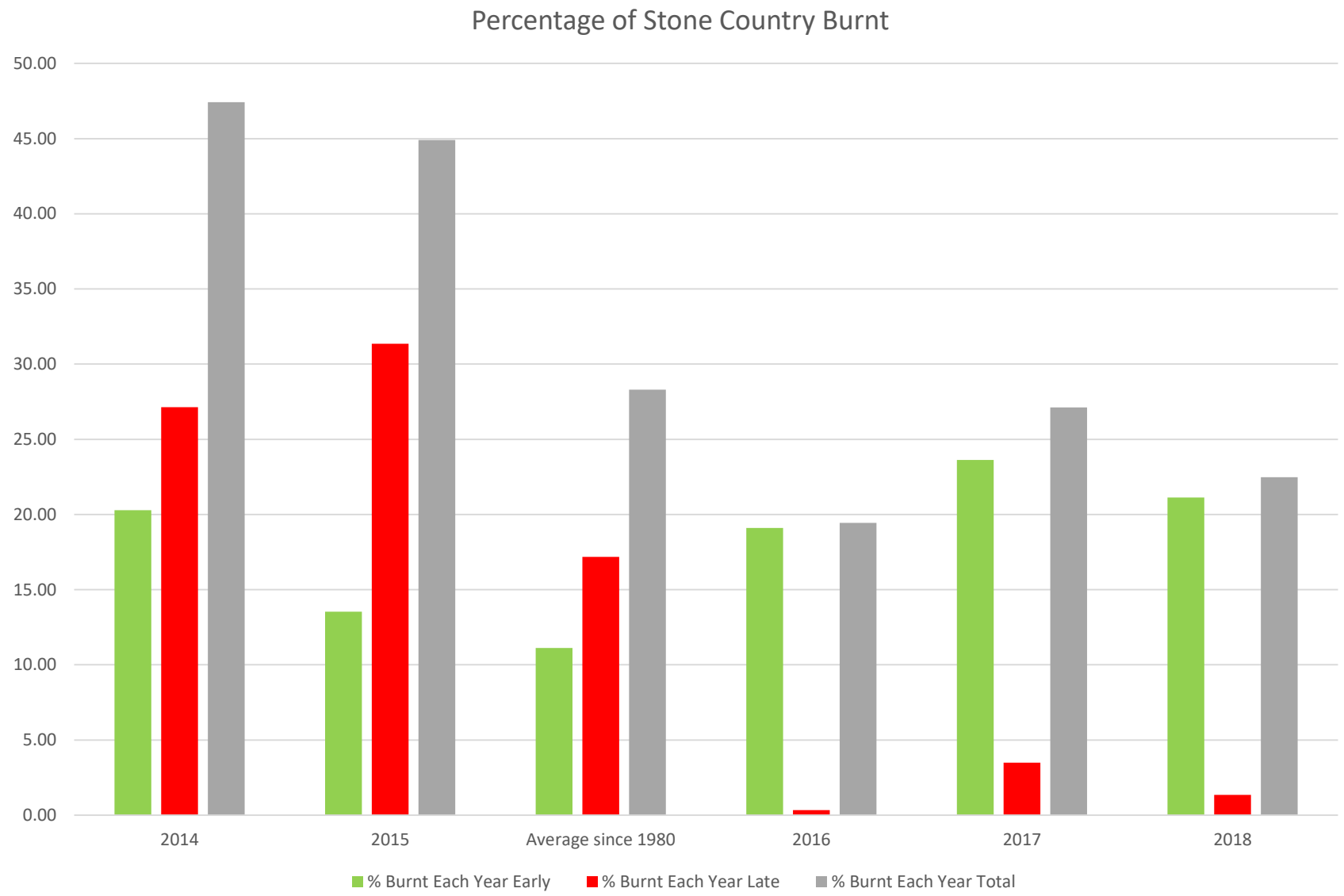

Anbinik Boundary Burnt
25.0
20.0
15.0
10.0
5.0
0.0
2014
2015
Average since 1980
2016
2017
2018
Early
Late
Total

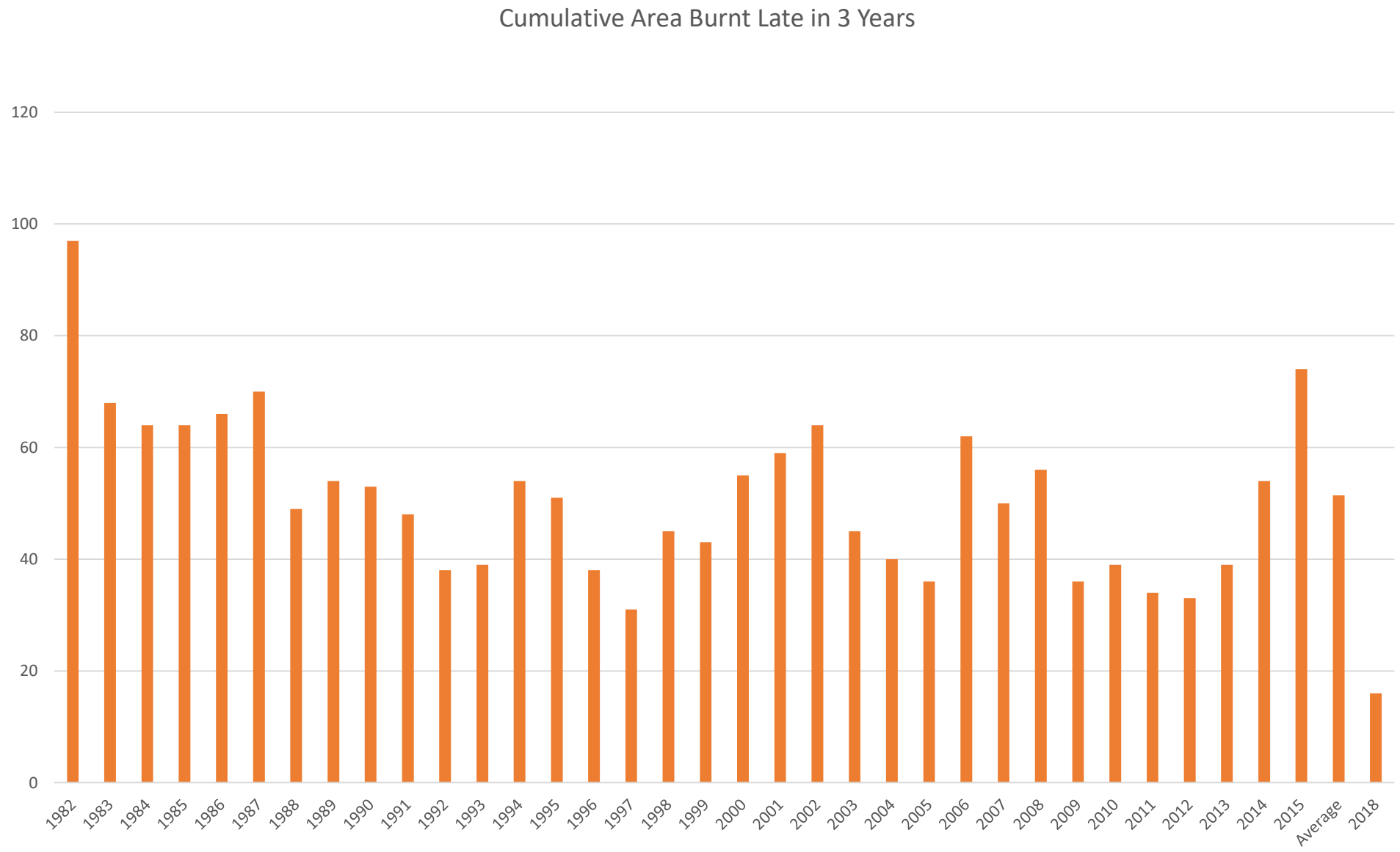


Average 2000 - 2015	28%
2017	41%
2018	38%



Average 2000 - 2015	17%
2017	29%
2018	25%


Percentage of Stone Country Burnt
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
2014
2015
Average since 1980
2016
2017
2018
% Burnt Each Year Early
% Burnt Each Year Late
% Burnt Each Year Total


Cumulative Area Burnt Late in 3 Years
120
100
80
60
40
20
0
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Average
2018