

Adoption of Precision Agriculture Technology

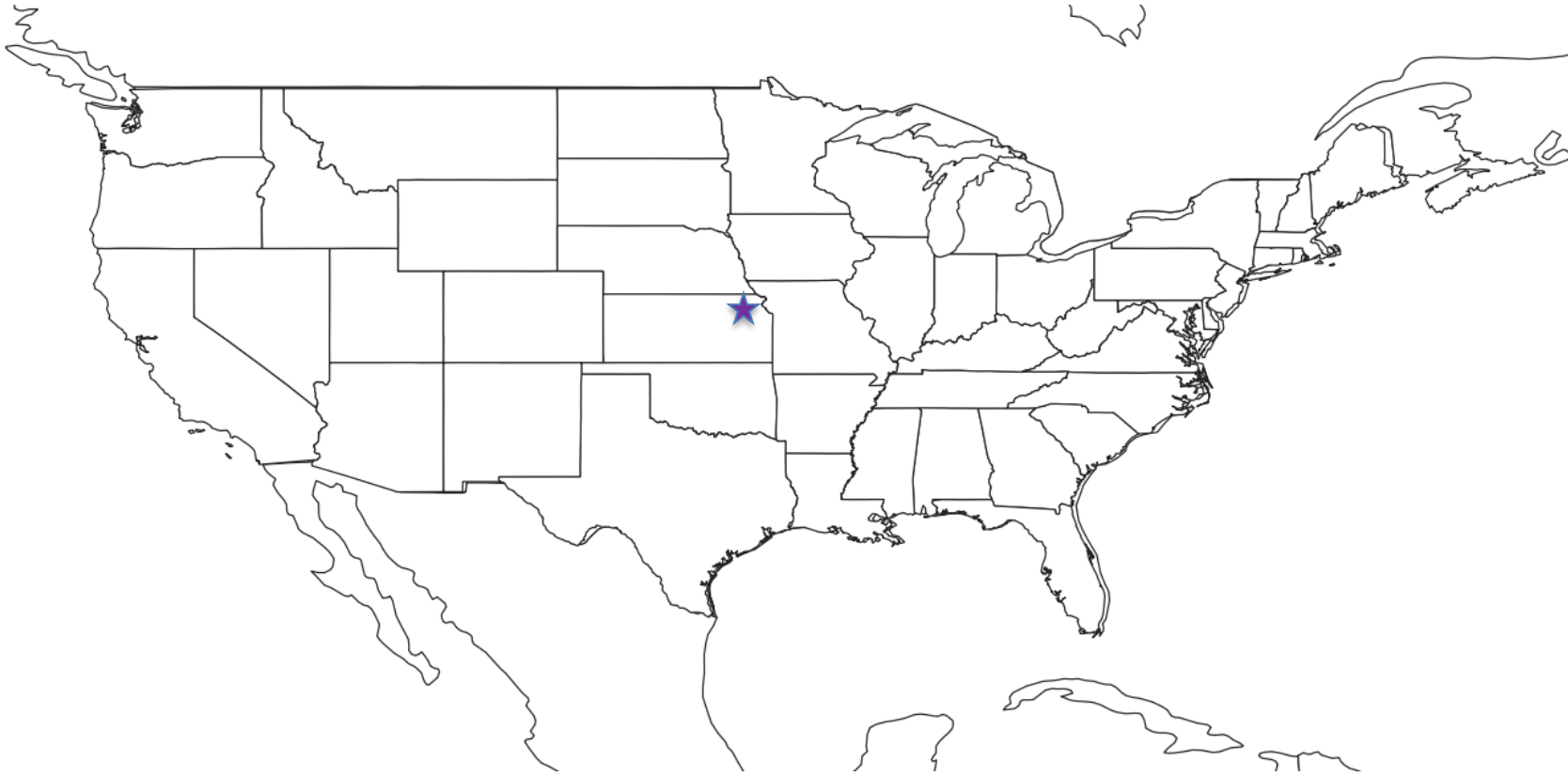
Terry W. Griffin, PhD

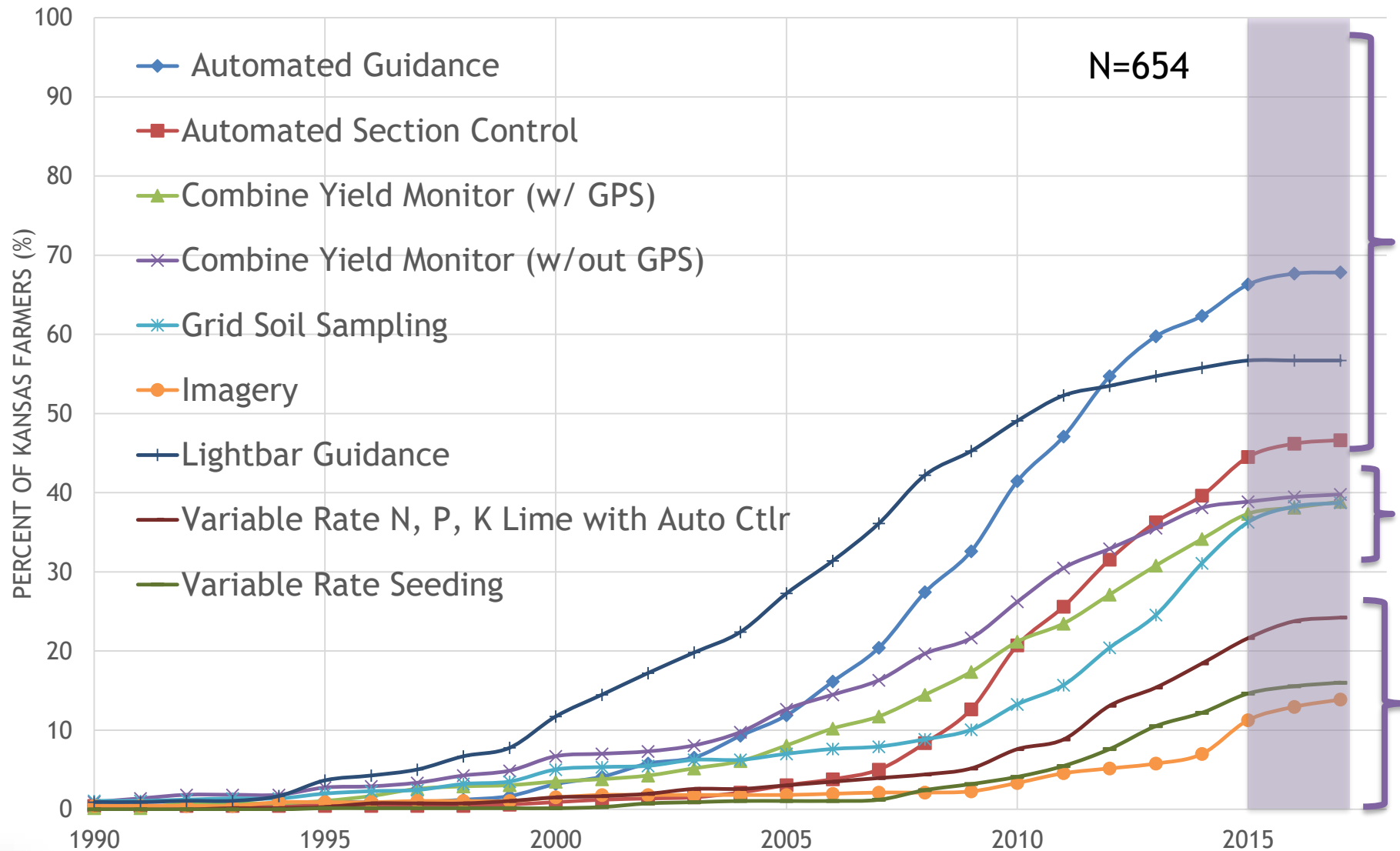
Elizabeth A. Yeager, PhD

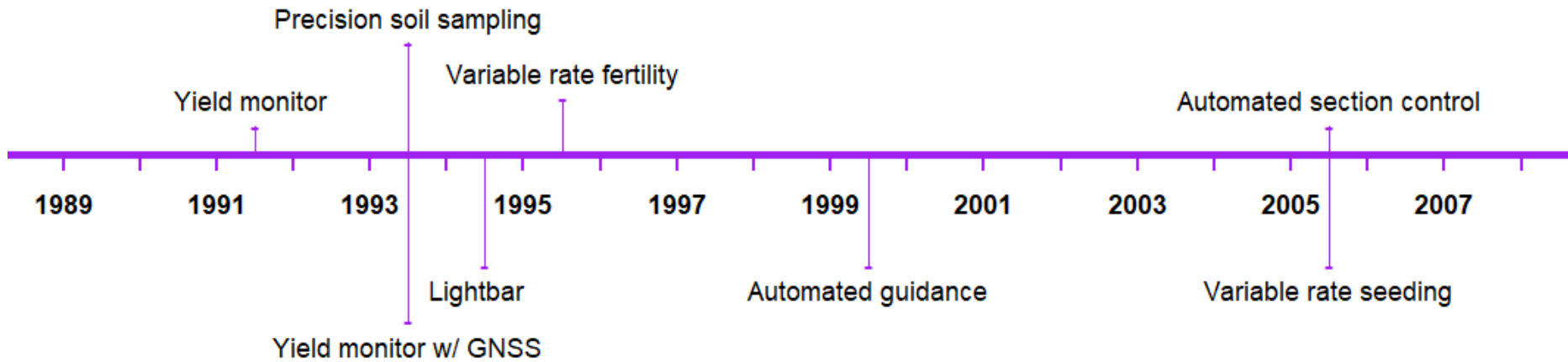
Gregg Ibendahl, PhD

Department of Agricultural Economics

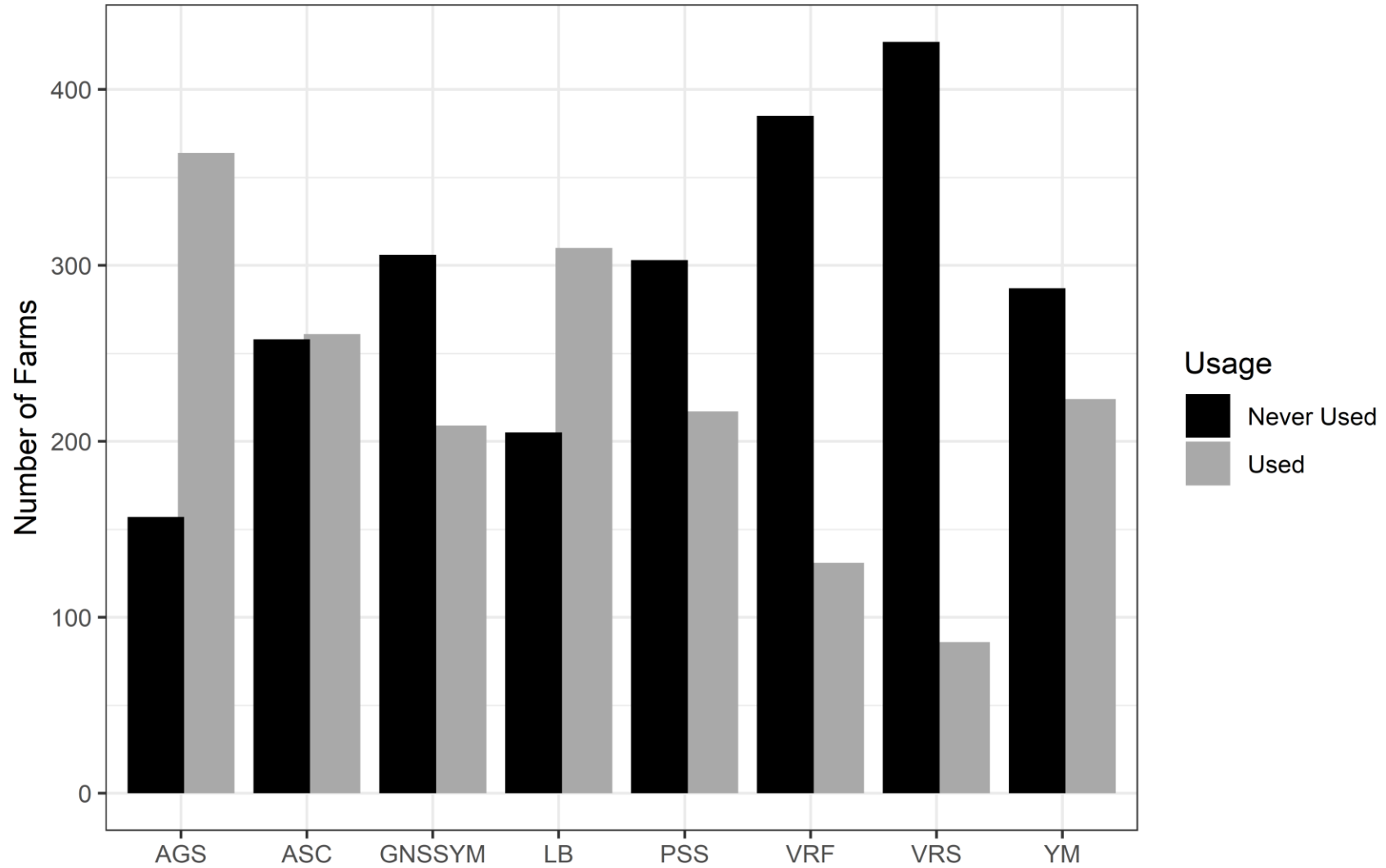
22nd IFMA
March 2019

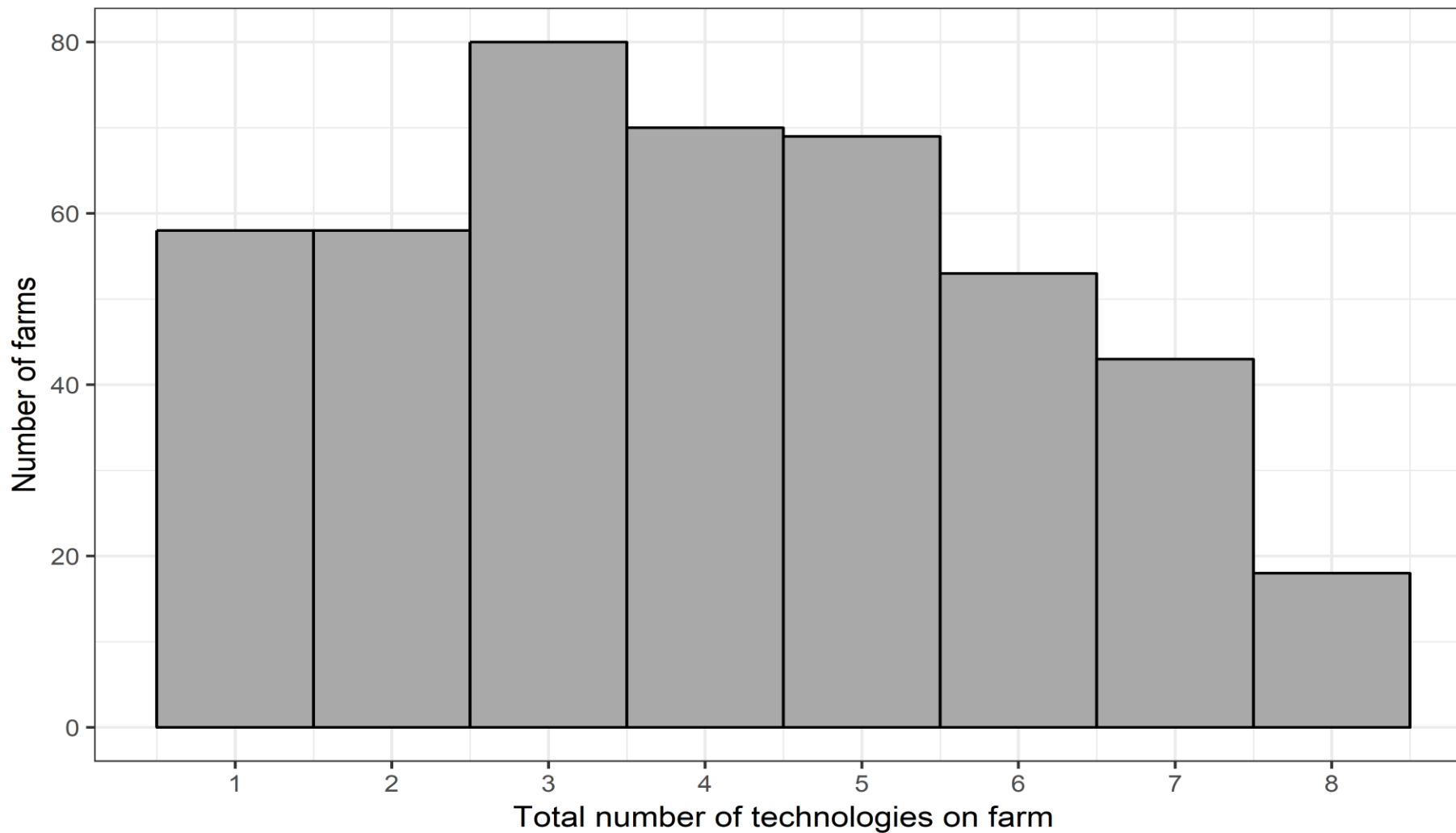






Number farms adopting specific technologies





	Yield mapping	Yield monitor	AGS	ASC	Lightbar	Soil sample	VRF	VRS
Yield mapping	-	0.54	0.94	0.82	0.7	0.66	0.46	0.35
Yield monitor	0.51	-	0.89	0.67	0.71	0.49	0.35	0.22
AGS	0.54	0.53	-	0.66	0.7	0.5	0.33	0.23
ASC	0.67	0.58	0.95	-	0.73	0.57	0.43	0.31
Lightbar	0.47	0.5	0.82	0.6	-	0.48	0.31	0.18
Soil sampling	0.64	0.5	0.86	0.67	0.7	-	0.53	0.29
VR fertilizer	0.73	0.59	0.91	0.82	0.73	0.86	-	0.41
VR seed	0.82	0.56	0.97	0.9	0.63	0.71	0.62	-

- Financial characteristics of adopters
- Kansas adoption rates versus USA (USDA ARMS)
- Efficiency measures, DEA
 - Does technology impact technical and overall efficiency?
- Duration analysis
 - How long does it take farmers to adopt?

Terry Griffin, PhD

Cropping Systems Economist

twgriffin@ksu.edu

@SpacePlowboy

Treasurer – International Society of Precision Agriculture

<https://ispag.org>

Gregg Ibendahl

Farm management and ag finance economist

Ibendahl@ksu.edu

@Ibendahl