Technical Appendix - Characteristics of farms applying for cannabis cultivation permits

Appendix Table A1:

Variable	Definition	Data Source
Apply	=1 if a permit application was filed listing the parcel as the location of production; zero otherwise	Humboldt County Planning Department
New Farm	Cannabis production detected on the parcel in 2016, but not in 2012.	Calculated from Butsic et al. (2018)
Total number of cannabis plants in 2016	Sum of greenhouse & outdoor cannabis plants in 2016	Calculated from Butsic et al. (2018)
Total number of cannabis plants in 2012	Sum of greenhouse & outdoor cannabis plants in 2012	Calculated from Butsic et al. (2018)
Number of greenhouse cannabis plants in 2016	Estimated count of cannabis plants in 2016 based on greenhouse dimensions	Calculated from Butsic et al. (2018)
Number of greenhouse cannabis plants in 2012	Estimated count of cannabis plants in 2012 based on greenhouse dimensions	Calculated from Butsic et al. (2018)
Number of outdoor cannabis plants in 2016	Count of cannabis plants growing outdoors in 2016	Calculated from Butsic et al. (2018)
Number of outdoor cannabis plants in 2012	Count of cannabis plants growing outdoors in 2016	Calculated from Butsic et al. (2018)
Northness	Y coordinate in meters	Calculated in ArcGIS
Distance to a city (00s of km)	Distance to city in in hundred of KMs	Humboldt County parcel layers http://www.humboldtgov.org/201/Maps-GIS-Data
Distance to an ocean (00s of km)	Distance to ocean in hundred KMs	California Department of Fish and Wildlife https://www.wildlife.ca.gov/Data/GIS/Clearinghouse
Distance to Stream (km)	Distance to nearest stream or waterbody in KMs	California Department of Fish and Wildlife https://www.wildlife.ca.gov/Data/GIS/Clearinghouse
Distance to steelhead habitat (km)	Distance to steelhead habitat in KMs	National Marine Fisheries Service (NMFS) 2016 Coastal Multispecies Recovery Plan National Marine Fisheries Service (NMFS) 2017
Distance to chinook habitat (km)	Distance to Chinook habitat in KMs	Intrinsic Potential GIS Data - North-central California Coast (www.westcoast.fisheries.noaa.gov/maps_data/m aps_and_gis_data.html)
Distance to road (km)	Distance of parcel to road in km	Derived from road layer from Humboldt GIS http://www.humboldtgov.org/201/Maps-GIS-Data
Slope over 30 % on property	Percent of parcel with slope greater than 30%	Humboldt County parcel layers http://www.humboldtgov.org/201/Maps-GIS-Data
Property size (acres)	Size of parcel in acres	Humboldt County parcel layers http://www.humboldtgov.org/201/Maps-GIS-Data
Timber Harvest Plan since 1997	=1 if a Timber Harvest Plan was on the parcel at any time between 1997-2012)	CALFIRE calfire.ca.gov/resource_mgt/resource_mgt_forest practice_gis
Agricultural zone	=1 if any part of parcel zoned AG or AE; zero otherwise	Data on zoning developed and provided by Humboldt County (http://humboldtgov.org/1357/Web-GIS)
TPZ or Forest Zone	=1 if parcel zoned TPZ or FR; zero otherwise	Data on zoning developed and provided by Humboldt County (http://humboldtgov.org/1357/Web-GIS)
Parcel has been transacted since 2015	=1 if parcel has been transacted in 2015, 2016 or 2017; Zero otherwise	CoreLogic; Humboldt County Assessors Office
	=1 if parcel contains area designated as	Data on soil developed and provided by