Variables	Accuracy of Best Model	P-Value
Random Classification		
None	$47.8 \pm 0.472\%$	-
Decision Tree One-Variable Classification		
AWND	$62.4 \pm 0.034\%$	<0.001*
PRCP	$62.4 \pm 0.006\%$	<0.001*
TAVG	$62.4 \pm 0.017\%$	<0.001*
DURING_A_DROUGHT	$62.4 \pm 0.006\%$	<0.001*
WATERSHD	$62.4 \pm 0.006\%$	<0.001*
POP_BY_COUNTY	$64.1 \pm 0.296\%$	<0.001*
Decision Tree Two-Variable Classification		
DURING_A_DROUGHT, WATERSHD	$62.4 \pm 0.006\%$	<0.001*
POP_BY_COUNTY, AWND	$62.7 \pm 0.674\%$	<0.001*
Decision Tree Three-Variable Classification		
AWND, PRCP, TAVG	$62.4 \pm 0.006\%$	0.002*
DURING_A_DROUGHT, WATERSHD, POP_BY_COUNTY	$64.0 \pm 0.509\%$	<0.001*
POP_BY_COUNTY, AWND, TAVG	$62.5 \pm 0.396\%$	0.001*
Decision Tree All-Variable Classification		
AWND, PRCP, TAVG, DURING_A_DROUGHT, WATERSHD, POP_BY_COUNTY	$62.5 \pm 0.385\%$	<0.001*
Random Forest All-Variable Classification		
AWND, PRCP, TAVG, DURING_A_DROUGHT, WATERSHD, POP_BY_COUNTY	$62.3 \pm 0.020\%$	<0.001*

Note: Asterisks (*) indicate significantly higher accuracy than a random classification, and **bold** type indicates the highest-accuracy model.

Variables	Max Depth (max_depth)	Cross Validation Generator (cv)	Quality of Split (criterion)	# of Trees in Forest (n_estimators)	
Random Classification					
None	-	-	-	-	
Decision Tree One-Variable Classification					
AWND	3	5*	gini*	-	
PRCP	1	5*	gini*	-	
TAVG	3	5*	gini*	-	
DURING_A_DROUGHT	1	5*	gini*	-	
WATERSHD	1	5*	gini*	-	
POP_BY_COUNTY	13	5*	gini*	-	
Decision Tree Two-Variable Class	ification				
DURING_A_DROUGHT, WATERSHD	1	5*	gini*	-	
POP_BY_COUNTY, AWND	7	5*	gini*	-	
Decision Tree Three-Variable Cla	ssification				
AWND, PRCP, TAVG	1	5*	gini*	-	
DURING_A_DROUGHT, WATERSHD, POP_BY_COUNTY	10	5*	gini*	-	
POP_BY_COUNTY, AWND, TAVG	5	5*	gini*	-	
Decision Tree All-Variable Classif	fication				
AWND, PRCP, TAVG, DURING_A_DROUGHT, WATERSHD, POP_BY_COUNTY	6	5*	gini*	-	
Random Forest All-Variable Class	rification				
AWND, PRCP, TAVG, DURING_A_DROUGHT, WATERSHD, POP_BY_COUNTY	6	5*	gini*	100*	

Note: Asterisks (*) indicates it is a default parameter value.