Supplementary Material

A Comparison of Multiple Linear Regression Against Random Forest Regression Applied in Predicting the USA’s Honey Production

Data:

state: The abbreviated name of the US state in which the colony resides.

numcol: The number of obtained colonies that produce honey.

yieldpercol: Yield of honey per colony (measured in lbs).

totalprod: Total quantity of honey produced, numcol multiplied by yieldpercol (measured in lbs).

priceperlb: Average price of honey per pound (measured in USD ($))

stocks: Mass of stocks held by producers on December 15th (measured in lbs).

prodvalue: Total value of production, totalprod multiplied by priceperlb (measured in USD ($)).

 State key:

|  |  |
| --- | --- |
| **State name** | **USPS abbreviation** |
| Alabama | AL |
| Alaska | AK |
| Arizona | AZ |
| Arkansas | AR |
| California | CA |
| Colorado | CO |
| Connecticut | CT |
| Delaware | DE |
| District of Columbia | DC |
| Florida | FL |
| Georgia | GA |
| Hawaii | HI |
| Idaho | ID |
| Illinois | IL |
| Indiana | IN |
| Iowa | IA |
| Kansas | KS |
| Kentucky | KY |
| Louisiana | LA |
| Maine | ME |
| Maryland | MD |
| Massachusetts | MA |
| Michigan | MI |
| Minnesota | MN |
| Mississippi | MS |
| Missouri | MO |
| Montana | MT |
| Nebraska | NE |
| Nevada | NV |
| New Hampshire | NH |
| New Jersey | NJ |
| New Mexico | NM |
| New York | NY |
| North Carolina | NC |
| North Dakota | ND |
| Ohio | OH |
| Oklahoma | OK |
| Oregon | OR |
| Pennsylvania | PA |
| Puerto Rico | PR |
| Rhode Island | RI |
| South Carolina | SC |
| South Dakota | SD |
| Tennessee | TN |
| Texas | TX |
| Utah | UT |
| Vermont | VT |
| Virginia | VA |
| Washington | WA |
| West Virginia | WV |
| Wisconsin | WI |
| Wyoming | WY |