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CPTS 224

HW 6

bash-4.2$ awk ' BEGIN {FS = ","; HD = 0; LD = 50000; LW = 100; HW = 0

print"County Population/sq.Mile \%Water\n" }

NR > 1{ if(NF > 3){ DENS = ($2/($3+$4)); WATER = (($4/($3+$4))\*100)

printf"%-20s %7.1f %.1f\%\n", $1, DENS, WATER

if (DENS > HD){HD = DENS; COUNTY1 = $1}

if (DENS < LD){LD = DENS; COUNTY2 = $1}

if (WATER > HW){HW = WATER; COUNTY3 = $1}

if (WATER < LW){LW = WATER; COUNTY4 = $1}}}

END{

printf"Highest Population Density: %s, %.1f people/square mile\n", COUNTY1, HD

printf"Lowest Population Density: %s, %.1f people/square mile\n", COUNTY2, LD

printf"Highest Percentage of Water: %s, %.1f\% water\n", COUNTY3, HW

printf"Lowest Percentage of Water: %s, %.1f\% water\n", COUNTY4, LW

}' census2010.txt

awk: cmd. line:2: warning: escape sequence `\%' treated as plain `%'

County Population/sq.Mile %Water

Adams County 9.7 0.3%

Asotin County 33.8 0.7%

Benton County 99.5 3.4%

Chelan County 24.2 2.5%

Clallam County 26.7 34.9%

Clark County 648.2 4.1%

Columbia County 4.7 0.6%

Cowlitz County 87.8 2.2%

Douglas County 20.8 1.6%

Ferry County 3.3 2.4%

Franklin County 61.8 1.8%

Garfield County 3.2 1.0%

Grant County 31.9 4.0%

Grays Harbor County 32.7 14.5%

Island County 151.7 59.7%

Jefferson County 13.7 17.4%

King County 837.2 8.3%

Kitsap County 443.8 30.2%

Kittitas County 17.5 1.5%

Klickitat County 10.7 1.7%

Lewis County 31.0 1.4%

Lincoln County 4.5 1.2%

Mason County 57.8 8.7%

Okanogan County 7.7 0.9%

Pacific County 17.1 23.8%

Pend Oreille County 9.1 1.8%

Pierce County 440.2 7.6%

San Juan County 25.4 72.0%

Skagit County 60.9 9.8%

Skamania County 6.6 1.7%

Snohomish County 324.8 5.0%

Spokane County 264.6 0.9%

Stevens County 17.1 2.5%

Thurston County 326.1 6.7%

Wahkiakum County 13.9 8.3%

Walla Walla County 45.3 2.2%

Whatcom County 80.3 15.8%

Whitman County 20.6 0.9%

Yakima County 56.4 0.4%

Highest Population Density: King County, 837.2 people/square mile

Lowest Population Density: Garfield County, 3.2 people/square mile

Highest Percentage of Water: San Juan County, 72.0% water

Lowest Percentage of Water: Adams County, 0.3% water