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*Full Procedure FOR LDCs*;
data ldctrans;
set ldc;
upoppct=100-rpoppct;
run;

proc reg data=ldctrans;
model water_access=battlebernoulli ifresh popdens upopgrow poop gdp goveff /
VIF STB COLLINOINT DW;
run;
*dL=1.542 dU=1.776, replace d with 4-d: 4-2.169=1.83. Do not reject, no
evidence of autocorrelation;

proc corr data=ldctrans;
var water_access battlebernoulli ifresh popdens upopgrow poop gdp goveff;
run;
*No statistically significant results = no evidence of NMC along with VIFs*;

*GQ Test for Heteroskedasticity*;
proc sort data=ldctrans;
by upopgrow;
run;

data ldctemp1;
set ldctrans;
if upopgrow>3.3282460898 then delete;
run;
proc reg data=ldctemp1 plots=none;
model water_access=battlebernoulli ifresh popdens upopgrow poop gdp goveff /
VIF STB;
run;
data ldctemp2;
set ldctrans;
if upopgrow<4.4691833375 then delete;
run;
proc reg data=ldctemp2;
model water_access=battlebernoulli ifresh popdens upopgrow poop gdp goveff /
VIF STB;
run;
*RSSH/RSSL = 0.8084/0.4423=1.82 CV=2.12, cannot reject H0, there is no
statistically significant evidence of heteroskedasticity;

Title "Full Procedure for Non-LDC Countries";
data nldctrans;
set nldc;
upoppct=100-rpoppct;
run;

proc reg data=nldctrans;
model water_access=battlebernoulli laborrat upoppct upopgrow poop goveff /
VIF STB COLLINOINT DW;
run;
*dL=1.71 dU=1.81 (based on 200 obs), d=1.916. Do not reject, no evidence of
autocorrelation;

*Test for NMC*;

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proc corr data=nldctrans;
var water_access battlebernoulli ifresh popdens upopgrow poop gdp goveff;
run;
*No statistically significant results = no evidence of NMC along with VIFs*;

*GQ Test for Heteroskedasticity*;
proc sort data=nldctrans;
by upopgrow;
run;

data nldctemp1;
set nldctrans;
if upopgrow>0.8121141279 then delete;
run;

proc reg data=ldctemp1 plots=none;
model water_access=battlebernoulli ifresh popdens upopgrow poop gdp goveff /
VIF STB;
run;

data ldctemp2;
set ldctrans;
if upopgrow<1.5572405701 then delete;
run;

proc reg data=ldctemp2;
model water_access=battlebernoulli ifresh popdens upopgrow poop gdp goveff /
VIF STB;
run;
*RSSH/RSSL = 0.8084/0.5260=1.53 CV=2.03, cannot reject H0, there is no
statistically significant evidence of heteroskedasticity;

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