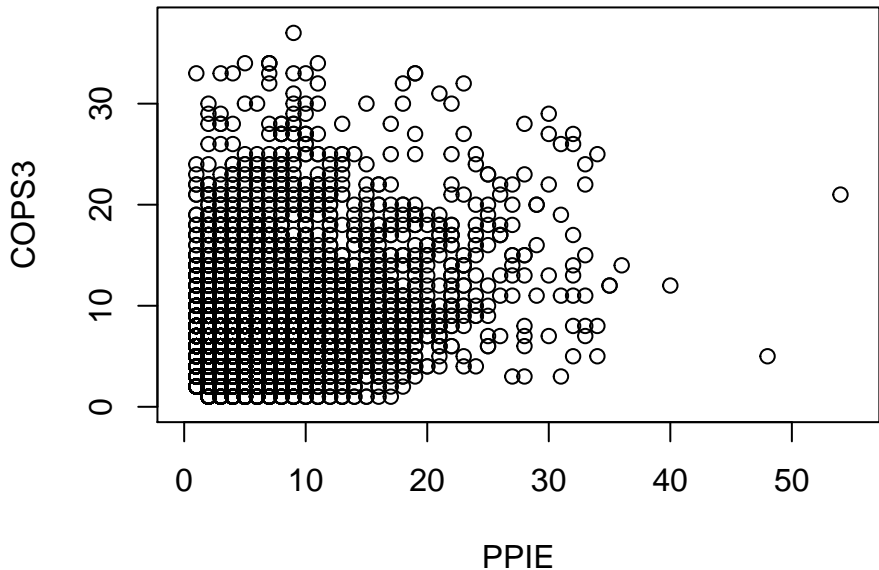**raw estimate = 0.311616714076172**
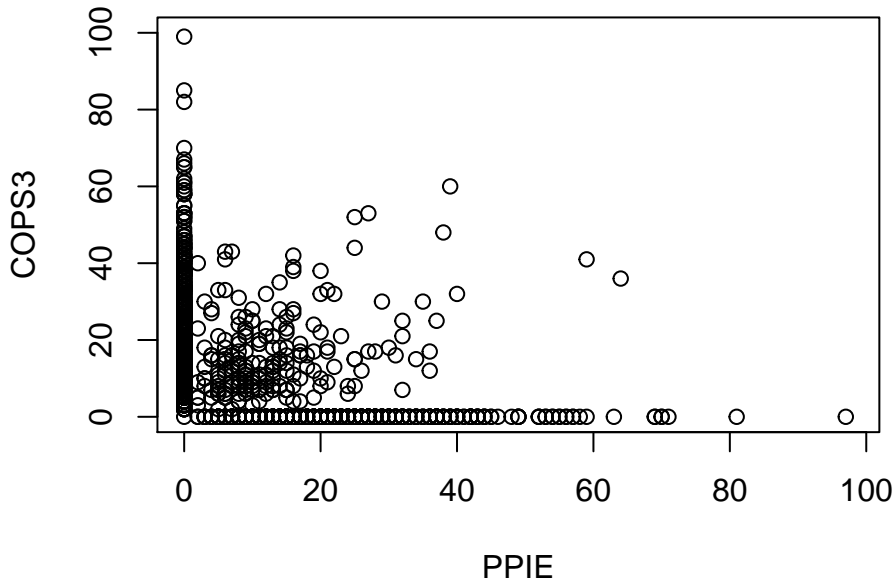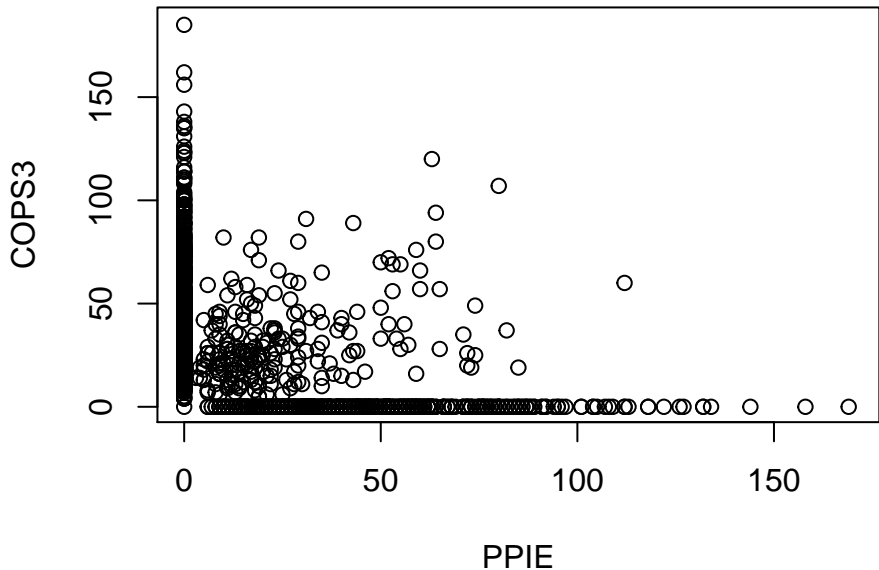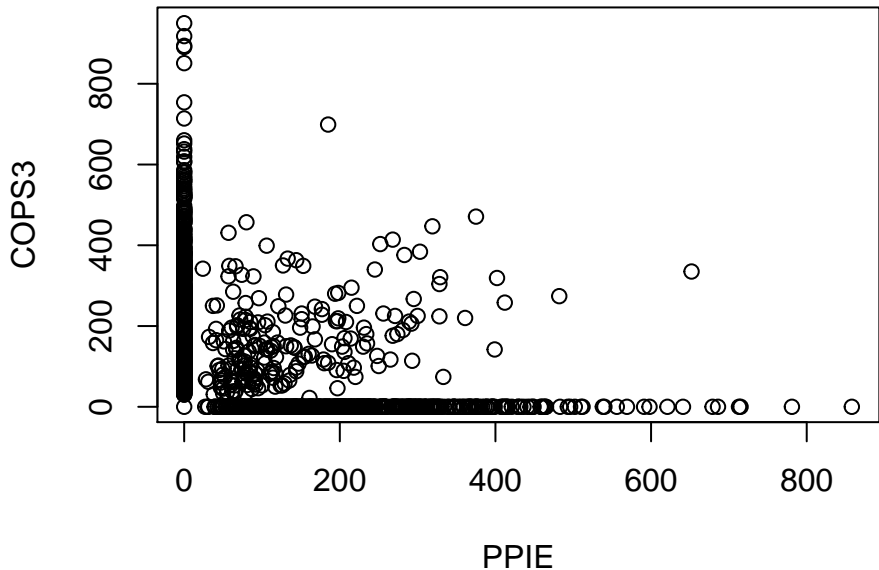
50 estimate = 0.0746624550165299

100 estimate = 0.079491644738262

500 estimate = 0.071760187092921

1000 estimate = 0.0606650304324435