**Classifying Big & Bad Mines**

***Selected sample:***

1. Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *and* median number of violations in the first 8 active quarters of mine history (N = 55)
2. Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *and* median number of injuries in the first 8 active quarters of mine history (N = 79)

***Robustness Checks:***

* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average number of violations in the first 8 active quarters of mine history (N = 64)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of maximum number of violations in the first 8 active quarters of mine history (N = 68)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of median number of violations in the first 8 active quarters of mine history (N = 61)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of violations in the first 8 active quarters of mine history (N = 73)
* Mines in the 90th percentile of average, maximum, *or* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of violations in the first 8 active quarters of mine history (N = 89)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *and* median number of violations in the first 6 active quarters of mine history (N = 52)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average number of violations in the first 6 active quarters of mine history (N = 60)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of maximum number of violations in the first 6 active quarters of mine history (N = 65)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of median number of violations in the first 6 active quarters of mine history (N = 57)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of violations in the first 6 active quarters of mine history (N = 70)
* Mines in the 90th percentile of average, maximum, *or* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of violations in the first 6 active quarters of mine history (N = 84)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average number of injuries in the first 8 active quarters of mine history (N = 83)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of maximum number of injuries in the first 8 active quarters of mine history (N = 88)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of median number of injuries in the first 8 active quarters of mine history (N = 88)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of injuries in the first 8 active quarters of mine history (N = 73)
* Mines in the 90th percentile of average, maximum, *or* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of injuries in the first 8 active quarters of mine history (N = 119)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *and* median number of injuries in the first 6 active quarters of mine history (N = 75)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average number of injuries in the first 6 active quarters of mine history (N = 82)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of maximum number of injuries in the first 6 active quarters of mine history (N = 81)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of median number of injuries in the first 6 active quarters of mine history (N = 81)
* Mines in the 90th percentile of average, maximum, *and* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of injuries in the first 6 active quarters of mine history (N = 87)
* Mines in the 90th percentile of average, maximum, *or* median hours worked *AND* in the 90th percentile of average, maximum, *or* median number of injuries in the first 6 active quarters of mine history (N = 112)

***Methodology:***

To identify big and bad mines, we took the intersection of mines that we identified as big and mines that we identified as bad.