Substance Distribution by States (Total Years)

{'Desmethylprodine ': [('OH', 8), ('KY', 5), ('VA', 2)],
 'Buprenorphine': [('OH', 10687),
  ('PA', 9354),
  ('VA', 7147),
  ('KY', 6428),
  ('WV', 1223)],
 'Butyryl fentanyl': [('OH', 221),
  ('PA', 132),
  ('KY', 17),
  ('VA', 6),
  ('WV', 3)],
 'Dextropropoxyphene': [('WV', 36), ('OH', 36), ('PA', 6)],
 '3,4-Methylenedioxy U-47700': [('PA', 3)],
 'Meperidine': [('VA', 49), ('OH', 20), ('PA', 15), ('KY', 13), ('WV', 7)],
 'Pentazocine': [('KY', 16), ('OH', 15), ('VA', 13), ('WV', 7), ('PA', 4)],
 'Morphine': [('OH', 3180),
  ('VA', 2908),
  ('PA', 2027),
  ('KY', 1852),
  ('WV', 615)],
 '3-Fluorofentanyl': [('VA', 1)],
 'Opium': [('VA', 28), ('PA', 1), ('OH', 1), ('KY', 1)],
 '3-Methylfentanyl': [('OH', 941), ('PA', 256), ('VA', 10), ('WV', 5)],
 'U-51754': [('OH', 7)],
 'U-48800': [('OH', 23), ('PA', 12)],
 'Dihydromorphone': [('PA', 1)],
 'o-Fluorofentanyl': [('OH', 4), ('VA', 3)],
 'Propoxyphene': [('OH', 223),
  ('PA', 167),
  ('VA', 117),
  ('KY', 61),
  ('WV', 3)],
 'Oxymorphone': [('OH', 1526),
  ('KY', 1278),
  ('VA', 1070),
  ('PA', 758),
  ('WV', 731)],
 'Fluoroisobutyryl fentanyl': [('OH', 103), ('PA', 36), ('VA', 12), ('KY', 4)],
 'Crotonyl fentanyl': [('OH', 39)],
 'Mitragynine': [('OH', 125), ('KY', 58), ('PA', 6), ('VA', 4), ('WV', 3)],

'Tramadol': [('OH', 2796),
 ('PA', 1408),
 ('VA', 1339),
 ('KY', 789),
 ('WV', 67)],
'Metazocine': [('PA', 1)],
'Valeryl fentanyl': [('PA', 19), ('OH', 2)],
'Dihydrocodeine': [('VA', 5), ('OH', 4), ('PA', 2), ('WV', 1), ('KY', 1)],
'Acetyldihydrocodeine': [('PA', 5)],
'Fentanyl': [('OH', 26453),
 ('PA', 13191),
 ('KY', 4280),
 ('VA', 2797),
 ('WV', 618)],
'Fluorofentanyl': [('OH', 2), ('KY', 1)],
'Heroin': [('OH', 133137),
 ('PA', 119907),
 ('VA', 24441),
 ('KY', 23377),
 ('WV', 9453)],
'Methadone': [('OH', 2464),
 ('VA', 2182),
 ('KY', 2143),
 ('PA', 1793),
 ('WV', 131)],
'Levorphanol': [('PA', 2)],
'Acryl fentanyl': [('OH', 1227),
 ('PA', 63),
 ('KY', 52),
 ('WV', 13),
 ('VA', 10)],
'MT-45': [('PA', 2)],
'p-Fluorofentanyl': [('OH', 6), ('WV', 1)],
'p-methoxybutyryl fentanyl': [('PA', 1)],
'Thebaine': [('OH', 7), ('PA', 2), ('WV', 1), ('KY', 1)],
'ANPP': [('OH', 278), ('PA', 21), ('KY', 19), ('VA', 4), ('WV', 1)],
'cis-3-methylfentanyl': [('PA', 23), ('KY', 2)],
'Hydromorphone': [('VA', 2472),
 ('WV', 955),
 ('OH', 804),
 ('KY', 535),
 ('PA', 357)],
'Benzylfentanyl': [('OH', 115), ('PA', 36), ('VA', 1)],

'Hydrocodone': [('KY', 14540),
 ('OH', 13943),
 ('VA', 10327),
 ('PA', 6100),
 ('WV', 2460)],
'Hydrocodeinone': [('PA', 3)],
'Methorphan': [('KY', 124), ('PA', 79), ('VA', 48), ('OH', 30), ('WV', 28)],
'Pethidine': [('KY', 6), ('PA', 6), ('VA', 1), ('OH', 1)],
'Acetylcodeine': [('PA', 7), ('WV', 5), ('VA', 1)],
'Methoxyacetyl fentanyl': [('OH', 218),
 ('PA', 79),
 ('KY', 17),
 ('VA', 9),
 ('WV', 2)],
'trans-3-Methylfentanyl': [('PA', 21), ('KY', 2)],
'Cyclopropyl/Crotonyl Fentanyl': [('OH', 26)],
'Furanyl fentanyl': [('OH', 1738),
 ('PA', 721),
 ('VA', 570),
 ('KY', 148),
 ('WV', 42)],
'Codeine': [('PA', 1834), ('OH', 1312), ('VA', 631), ('KY', 320), ('WV', 53)],
'Opiates': [('OH', 57), ('PA', 3)],
'Cyclopentyl fentanyl': [('KY', 1)],
'Remifentanil': [('PA', 1)],
'Acetyl fentanyl': [('OH', 1361),
 ('PA', 545),
 ('WV', 59),
 ('VA', 50),
 ('KY', 36)],
'Fluorobutyryl fentanyl ': [('OH', 22), ('WV', 1)],
'U-49900': [('OH', 17)],
'Oxycodone': [('OH', 35988),
 ('KY', 25586),
 ('PA', 24827),
 ('VA', 16735),
 ('WV', 7037)],
'Nalbuphine': [('VA', 1)],
'p-Fluorobutyryl fentanyl': [('PA', 10), ('OH', 3), ('VA', 2), ('KY', 1)],
'Carfentanil': [('OH', 5415),
 ('PA', 178),
 ('KY', 169),
 ('VA', 58),

('WV', 8)],
 'Cyclopropyl fentanyl': [('OH', 730),
  ('PA', 102),
  ('KY', 79),
  ('VA', 27),
  ('WV', 3)],
 '4-Methylfentanyl': [('OH', 5)],
 'Tetrahydrofuran fentanyl': [('OH', 5), ('PA', 1)],
 'Furanyl/3-Furanyl fentanyl': [('WV', 7)],
 '4-Fluoroisobutyryl fentanyl': [('PA', 328),
  ('VA', 253),
  ('OH', 112),
  ('KY', 3),
  ('WV', 2)],
 'Phenyl fentanyl': [('OH', 54), ('PA', 9), ('WV', 1)],
 'Alphaprodine': [('PA', 1)],
 'Isobutyryl fentanyl': [('WV', 3), ('OH', 1)],
 'U-47700': [('OH', 1096), ('PA', 315), ('VA', 90), ('KY', 80), ('WV', 11)],
 'Butorphanol': [('VA', 6), ('PA', 1), ('OH', 1)]}

Substance Distribution by States (separated by years)

{2010: {'Desmethylprodine ': [],
 'Buprenorphine': [('PA', 1119),
  ('OH', 623),
  ('VA', 471),
  ('KY', 460),
  ('WV', 72)],
 'Butyryl fentanyl': [],
 'Dextropropoxyphene': [('OH', 27), ('WV', 16), ('PA', 2)],
 '3,4-Methylenedioxy U-47700': [],
 'Meperidine': [('VA', 15), ('PA', 6), ('OH', 5), ('KY', 1)],
 'Pentazocine': [('KY', 4), ('VA', 3), ('WV', 2)],
 'Morphine': [('OH', 458), ('VA', 412), ('PA', 311), ('KY', 237), ('WV', 95)],
 '3-Fluorofentanyl': [],
 'Opium': [('VA', 1)],
 '3-Methylfentanyl': [],
 'U-51754': [],
 'U-48800': [],
 'Dihydromorphone': [('PA', 1)],

'o-Fluorofentanyl': [],
'Propoxyphene': [('OH', 102), ('PA', 80), ('VA', 59), ('KY', 31)],
'Oxymorphone': [('OH', 141), ('PA', 82), ('VA', 56), ('KY', 48), ('WV', 17)],
'Fluoroisobutyryl fentanyl': [],
'Crotonyl fentanyl': [],
'Mitragynine': [],
'Tramadol': [('VA', 137), ('KY', 115), ('OH', 97), ('PA', 56)],
'Metazocine': [],
'Valeryl fentanyl': [],
'Dihydrocodeine': [('PA', 2), ('WV', 1)],
'Acetyldihydrocodeine': [],
'Fentanyl': [('PA', 57), ('OH', 56), ('VA', 41), ('KY', 17), ('WV', 8)],
'Fluorofentanyl': [],
'Heroin': [('PA', 12102),
 ('OH', 9301),
 ('VA', 2298),
 ('WV', 902),
 ('KY', 629)],
'Methadone': [('KY', 480),
 ('OH', 449),
 ('VA', 403),
 ('PA', 370),
 ('WV', 19)],
'Levorphanol': [],
'Acryl fentanyl': [],
'MT-45': [],
'p-Fluorofentanyl': [],
'p-methoxybutyryl fentanyl': [],
'Thebaine': [('WV', 1), ('KY', 1)],
'ANPP': [],
'cis-3-methylfentanyl': [],
'Hydromorphone': [('VA', 337),
 ('OH', 142),
 ('KY', 71),
 ('WV', 70),
 ('PA', 45)],
'Benzylfentanyl': [],
'Hydrocodone': [('KY', 2863),
 ('OH', 2229),
 ('VA', 1612),
 ('PA', 1229),
 ('WV', 561)],
'Hydrocodeinone': [],

'Methorphan': [('KY', 21), ('PA', 11), ('VA', 4), ('OH', 3), ('WV', 2)],
'Pethidine': [('KY', 4), ('PA', 3)],
'Acetylcodeine': [('WV', 5), ('PA', 1)],
'Methoxyacetyl fentanyl': [],
'trans-3-Methylfentanyl': [],
'Cyclopropyl/Crotonyl Fentanyl': [],
'Furanyl fentanyl': [],
'Codeine': [('PA', 361), ('OH', 150), ('VA', 80), ('KY', 56), ('WV', 5)],
'Opiates': [('OH', 18)],
'Cyclopentyl fentanyl': [],
'Remifentanil': [],
'Acetyl fentanyl': [],
'Fluorobutyryl fentanyl ': [],
'U-49900': [],
'Oxycodone': [('OH', 5906),
 ('KY', 5415),
 ('PA', 3975),
 ('VA', 2752),
 ('WV', 1114)],
'Nalbuphine': [],
'p-Fluorobutyryl fentanyl': [],
'Carfentanil': [],
'Cyclopropyl fentanyl': [],
'4-Methylfentanyl': [],
'Tetrahydrofuran fentanyl': [],
'Furanyl/3-Furanyl fentanyl': [],
'4-Fluoroisobutyryl fentanyl': [],
'Phenyl fentanyl': [],
'Alphaprodine': [('PA', 1)],
'Isobutyryl fentanyl': [],
'U-47700': [],
'Butorphanol': [('VA', 4)]},
2011: {'Desmethylprodine ': [('OH', 5), ('KY', 5), ('VA', 2)],
'Buprenorphine': [('PA', 1187),
 ('OH', 628),
 ('KY', 419),
 ('VA', 418),
 ('WV', 91)],
'Butyryl fentanyl': [],
'Dextropropoxyphene': [('WV', 11), ('OH', 4), ('PA', 2)],
'3,4-Methylenedioxy U-47700': [],
'Meperidine': [('OH', 7), ('VA', 6), ('WV', 2), ('KY', 2), ('PA', 2)],
'Pentazocine': [('KY', 4), ('VA', 2), ('WV', 2), ('OH', 2), ('PA', 1)],

'Morphine': [('OH', 431),
 ('VA', 403),
 ('PA', 300),
 ('KY', 261),
 ('WV', 116)],
'3-Fluorofentanyl': [],
'Opium': [('VA', 1), ('PA', 1)],
'3-Methylfentanyl': [],
'U-51754': [],
'U-48800': [],
'Dihydromorphone': [],
'o-Fluorofentanyl': [],
'Propoxyphene': [('PA', 40), ('OH', 33), ('VA', 24), ('KY', 12)],
'Oxymorphone': [('OH', 470),
 ('KY', 462),
 ('WV', 217),
 ('PA', 185),
 ('VA', 162)],
'Fluoroisobutyryl fentanyl': [],
'Crotonyl fentanyl': [],
'Mitragynine': [('KY', 1)],
'Tramadol': [('VA', 130), ('KY', 119), ('PA', 105), ('OH', 76)],
'Metazocine': [],
'Valeryl fentanyl': [],
'Dihydrocodeine': [('KY', 1)],
'Acetyldihydrocodeine': [],
'Fentanyl': [('OH', 52), ('PA', 49), ('VA', 41), ('KY', 31), ('WV', 12)],
'Fluorofentanyl': [],
'Heroin': [('PA', 11741),
 ('OH', 11004),
 ('VA', 1193),
 ('WV', 949),
 ('KY', 899)],
'Methadone': [('OH', 426),
 ('KY', 385),
 ('VA', 380),
 ('PA', 296),
 ('WV', 29)],
'Levorphanol': [],
'Acryl fentanyl': [],
'MT-45': [],
'p-Fluorofentanyl': [],
'p-methoxybutyryl fentanyl': [],

'Thebaine': [('PA', 2)],
'ANPP': [('PA', 1)],
'cis-3-methylfentanyl': [],
'Hydromorphone': [('VA', 277),
 ('OH', 168),
 ('WV', 119),
 ('KY', 98),
 ('PA', 64)],
'Benzylfentanyl': [],
'Hydrocodone': [('KY', 2750),
 ('OH', 2143),
 ('VA', 1481),
 ('PA', 1172),
 ('WV', 433)],
'Hydrocodeinone': [],
'Methorphan': [('KY', 28), ('OH', 20), ('VA', 12), ('PA', 10), ('WV', 5)],
'Pethidine': [('VA', 1), ('OH', 1), ('KY', 1)],
'Acetylcodeine': [('VA', 1)],
'Methoxyacetyl fentanyl': [],
'trans-3-Methylfentanyl': [],
'Cyclopropyl/Crotonyl Fentanyl': [],
'Furanyl fentanyl': [],
'Codeine': [('PA', 379), ('OH', 110), ('VA', 61), ('KY', 37), ('WV', 10)],
'Opiates': [('OH', 10)],
'Cyclopentyl fentanyl': [],
'Remifentanil': [],
'Acetyl fentanyl': [],
'Fluorobutyryl fentanyl ': [],
'U-49900': [],
'Oxycodone': [('KY', 4774),
 ('OH', 4740),
 ('PA', 4450),
 ('VA', 2153),
 ('WV', 1275)],
'Nalbuphine': [('VA', 1)],
'p-Fluorobutyryl fentanyl': [],
'Carfentanil': [],
'Cyclopropyl fentanyl': [],
'4-Methylfentanyl': [],
'Tetrahydrofuran fentanyl': [],
'Furanyl/3-Furanyl fentanyl': [],
'4-Fluoroisobutyryl fentanyl': [],
'Phenyl fentanyl': [],

'Alphaprodine': [],
 'Isobutyryl fentanyl': [],
 'U-47700': [],
 'Butorphanol': []},
 2012: {'Desmethylprodine ': [('OH', 2)],
 'Buprenorphine': [('PA', 988),
  ('OH', 725),
  ('VA', 618),
  ('KY', 540),
  ('WV', 114)],
 'Butyryl fentanyl': [],
 'Dextropropoxyphene': [('WV', 4), ('OH', 1)],
 '3,4-Methylenedioxy U-47700': [],
 'Meperidine': [('VA', 7), ('WV', 5), ('PA', 2), ('KY', 1)],
 'Pentazocine': [('VA', 4), ('KY', 3), ('OH', 2), ('PA', 1)],
 'Morphine': [('VA', 473),
  ('OH', 436),
  ('PA', 329),
  ('KY', 324),
  ('WV', 155)],
 '3-Fluorofentanyl': [],
 'Opium': [('VA', 1)],
 '3-Methylfentanyl': [],
 'U-51754': [],
 'U-48800': [],
 'Dihydromorphone': [],
 'o-Fluorofentanyl': [],
 'Propoxyphene': [('OH', 23), ('PA', 19), ('VA', 12), ('KY', 4)],
 'Oxymorphone': [('KY', 329),
  ('OH', 297),
  ('VA', 155),
  ('WV', 141),
  ('PA', 116)],
 'Fluoroisobutyryl fentanyl': [],
 'Crotonyl fentanyl': [],
 'Mitragynine': [('OH', 10), ('PA', 5), ('KY', 2)],
 'Tramadol': [('KY', 139), ('VA', 131), ('PA', 88), ('OH', 64), ('WV', 2)],
 'Metazocine': [],
 'Valeryl fentanyl': [],
 'Dihydrocodeine': [('VA', 2)],
 'Acetyldihydrocodeine': [('PA', 1)],
 'Fentanyl': [('PA', 49), ('OH', 42), ('VA', 39), ('KY', 15), ('WV', 7)],
 'Fluorofentanyl': [],

'Heroin': [('OH', 14633),
 ('PA', 13086),
 ('KY', 2320),
 ('VA', 1709),
 ('WV', 1175)],
'Methadone': [('KY', 412),
 ('OH', 365),
 ('PA', 287),
 ('VA', 283),
 ('WV', 24)],
'Levorphanol': [],
'Acryl fentanyl': [],
'MT-45': [],
'p-Fluorofentanyl': [],
'p-methoxybutyryl fentanyl': [],
'Thebaine': [],
'ANPP': [],
'cis-3-methylfentanyl': [],
'Hydromorphone': [('VA', 367),
 ('WV', 132),
 ('OH', 105),
 ('KY', 83),
 ('PA', 52)],
'Benzylfentanyl': [],
'Hydrocodone': [('KY', 2272),
 ('OH', 1886),
 ('VA', 1535),
 ('PA', 945),
 ('WV', 400)],
'Hydrocodeinone': [],
'Methorphan': [('KY', 17), ('VA', 13), ('WV', 11), ('OH', 4), ('PA', 2)],
'Pethidine': [('PA', 1)],
'Acetylcodeine': [],
'Methoxyacetyl fentanyl': [],
'trans-3-Methylfentanyl': [],
'Cyclopropyl/Crotonyl Fentanyl': [],
'Furanyl fentanyl': [],
'Codeine': [('PA', 227), ('OH', 167), ('VA', 103), ('KY', 42), ('WV', 11)],
'Opiates': [('OH', 12)],
'Cyclopentyl fentanyl': [],
'Remifentanil': [('PA', 1)],
'Acetyl fentanyl': [],
'Fluorobutyryl fentanyl ': [],

'U-49900': [],
'Oxycodone': [('OH', 4371),
 ('KY', 4219),
 ('PA', 3760),
 ('VA', 2377),
 ('WV', 1195)],
'Nalbuphine': [],
'p-Fluorobutyryl fentanyl': [],
'Carfentanil': [],
'Cyclopropyl fentanyl': [],
'4-Methylfentanyl': [],
'Tetrahydrofuran fentanyl': [],
'Furanyl/3-Furanyl fentanyl': [],
'4-Fluoroisobutyryl fentanyl': [],
'Phenyl fentanyl': [],
'Alphaprodine': [],
'Isobutyryl fentanyl': [],
'U-47700': [],
'Butorphanol': [('VA', 2)]},
2013: {'Desmethylprodine ': [('OH', 1)],
'Buprenorphine': [('OH', 1120),
 ('PA', 912),
 ('VA', 863),
 ('KY', 766),
 ('WV', 145)],
'Butyryl fentanyl': [],
'Dextropropoxyphene': [('WV', 2)],
'3,4-Methylenedioxy U-47700': [],
'Meperidine': [('VA', 9), ('PA', 3), ('OH', 2), ('KY', 2)],
'Pentazocine': [('VA', 2), ('WV', 2), ('OH', 2), ('KY', 1), ('PA', 1)],
'Morphine': [('VA', 481), ('OH', 378), ('KY', 341), ('PA', 243), ('WV', 96)],
'3-Fluorofentanyl': [],
'Opium': [('VA', 15), ('OH', 1)],
'3-Methylfentanyl': [],
'U-51754': [],
'U-48800': [],
'Dihydromorphone': [],
'o-Fluorofentanyl': [],
'Propoxyphene': [('OH', 16), ('VA', 11), ('PA', 10), ('KY', 5), ('WV', 3)],
'Oxymorphone': [('OH', 120),
 ('VA', 115),
 ('KY', 99),
 ('PA', 80),

('WV', 38)],
'Fluoroisobutyryl fentanyl': [],
'Crotonyl fentanyl': [],
'Mitragynine': [('OH', 41), ('KY', 8)],
'Tramadol': [('VA', 176), ('PA', 125), ('OH', 89), ('KY', 65), ('WV', 2)],
'Metazocine': [],
'Valeryl fentanyl': [],
'Dihydrocodeine': [],
'Acetyldihydrocodeine': [],
'Fentanyl': [('VA', 133), ('OH', 111), ('PA', 86), ('KY', 25), ('WV', 3)],
'Fluorofentanyl': [],
'Heroin': [('OH', 18340),
 ('PA', 14745),
 ('VA', 4396),
 ('KY', 4175),
 ('WV', 1857)],
'Methadone': [('VA', 364),
 ('OH', 315),
 ('KY', 263),
 ('PA', 212),
 ('WV', 13)],
'Levorphanol': [],
'Acryl fentanyl': [],
'MT-45': [('PA', 1)],
'p-Fluorofentanyl': [],
'p-methoxybutyryl fentanyl': [],
'Thebaine': [],
'ANPP': [],
'cis-3-methylfentanyl': [],
'Hydromorphone': [('VA', 473),
 ('WV', 208),
 ('KY', 94),
 ('OH', 91),
 ('PA', 45)],
'Benzylfentanyl': [],
'Hydrocodone': [('KY', 1868),
 ('VA', 1803),
 ('OH', 1778),
 ('PA', 778),
 ('WV', 442)],
'Hydrocodeinone': [('PA', 2)],
'Methorphan': [('KY', 14), ('PA', 9), ('WV', 3), ('VA', 1), ('OH', 1)],
'Pethidine': [],

'Acetylcodeine': [('PA', 1)],
'Methoxyacetyl fentanyl': [],
'trans-3-Methylfentanyl': [],
'Cyclopropyl/Crotonyl Fentanyl': [],
'Furanyl fentanyl': [],
'Codeine': [('PA', 191), ('OH', 160), ('VA', 113), ('KY', 37), ('WV', 6)],
'Opiates': [('OH', 8)],
'Cyclopentyl fentanyl': [],
'Remifentanil': [],
'Acetyl fentanyl': [],
'Fluorobutyryl fentanyl ': [],
'U-49900': [],
'Oxycodone': [('OH', 4272),
 ('KY', 3385),
 ('PA', 2964),
 ('VA', 2720),
 ('WV', 1226)],
'Nalbuphine': [],
'p-Fluorobutyryl fentanyl': [],
'Carfentanil': [],
'Cyclopropyl fentanyl': [],
'4-Methylfentanyl': [],
'Tetrahydrofuran fentanyl': [],
'Furanyl/3-Furanyl fentanyl': [],
'4-Fluoroisobutyryl fentanyl': [],
'Phenyl fentanyl': [],
'Alphaprodine': [],
'Isobutyryl fentanyl': [],
'U-47700': [],
'Butorphanol': [('PA', 1)]},
2014: {'Desmethylprodine ': [],
'Buprenorphine': [('OH', 1629),
 ('PA', 1314),
 ('KY', 1204),
 ('VA', 1008),
 ('WV', 147)],
'Butyryl fentanyl': [('PA', 1)],
'Dextropropoxyphene': [('OH', 1), ('PA', 1)],
'3,4-Methylenedioxy U-47700': [],
'Meperidine': [('VA', 4), ('OH', 3), ('KY', 2), ('PA', 1)],
'Pentazocine': [('OH', 5), ('KY', 3), ('VA', 1), ('WV', 1)],
'Morphine': [('OH', 368), ('VA', 364), ('KY', 268), ('PA', 216), ('WV', 80)],
'3-Fluorofentanyl': [],

'Opium': [('VA', 3)],
'3-Methylfentanyl': [],
'U-51754': [],
'U-48800': [],
'Dihydromorphone': [],
'o-Fluorofentanyl': [],
'Propoxyphene': [('OH', 11), ('VA', 7), ('PA', 6), ('KY', 1)],
'Oxymorphone': [('VA', 126),
 ('OH', 126),
 ('KY', 124),
 ('PA', 85),
 ('WV', 74)],
'Fluoroisobutyryl fentanyl': [],
'Crotonyl fentanyl': [],
'Mitragynine': [('OH', 5), ('KY', 5), ('VA', 3), ('WV', 2)],
'Tramadol': [('OH', 257), ('VA', 173), ('PA', 126), ('KY', 94), ('WV', 10)],
'Metazocine': [],
'Valeryl fentanyl': [],
'Dihydrocodeine': [('VA', 1), ('OH', 1)],
'Acetyldihydrocodeine': [],
'Fentanyl': [('OH', 1353),
 ('PA', 435),
 ('KY', 233),
 ('VA', 172),
 ('WV', 50)],
'Fluorofentanyl': [],
'Heroin': [('OH', 20590),
 ('PA', 18454),
 ('KY', 4362),
 ('VA', 3132),
 ('WV', 1516)],
'Methadone': [('OH', 285),
 ('KY', 233),
 ('PA', 224),
 ('VA', 223),
 ('WV', 16)],
'Levorphanol': [('PA', 1)],
'Acryl fentanyl': [],
'MT-45': [],
'p-Fluorofentanyl': [],
'p-methoxybutyryl fentanyl': [],
'Thebaine': [],
'ANPP': [('PA', 1)],

'cis-3-methylfentanyl': [],
'Hydromorphone': [('VA', 352),
 ('WV', 117),
 ('KY', 87),
 ('OH', 81),
 ('PA', 38)],
'Benzylfentanyl': [],
'Hydrocodone': [('OH', 1695),
 ('KY', 1585),
 ('VA', 1320),
 ('PA', 725),
 ('WV', 279)],
'Hydrocodeinone': [],
'Methorphan': [('KY', 9), ('VA', 5), ('PA', 4), ('WV', 3)],
'Pethidine': [('PA', 1)],
'Acetylcodeine': [('PA', 2)],
'Methoxyacetyl fentanyl': [],
'trans-3-Methylfentanyl': [],
'Cyclopropyl/Crotonyl Fentanyl': [],
'Furanyl fentanyl': [],
'Codeine': [('OH', 186), ('PA', 163), ('VA', 69), ('KY', 34), ('WV', 7)],
'Opiates': [],
'Cyclopentyl fentanyl': [],
'Remifentanil': [],
'Acetyl fentanyl': [('OH', 22), ('PA', 3), ('VA', 2)],
'Fluorobutyryl fentanyl ': [],
'U-49900': [],
'Oxycodone': [('OH', 4242),
 ('PA', 3103),
 ('KY', 2837),
 ('VA', 2072),
 ('WV', 978)],
'Nalbuphine': [],
'p-Fluorobutyryl fentanyl': [],
'Carfentanil': [],
'Cyclopropyl fentanyl': [],
'4-Methylfentanyl': [],
'Tetrahydrofuran fentanyl': [],
'Furanyl/3-Furanyl fentanyl': [],
'4-Fluoroisobutyryl fentanyl': [],
'Phenyl fentanyl': [],
'Alphaprodine': [],
'Isobutyryl fentanyl': [],

 'U-47700': [],
 'Butorphanol': []},
2015: {'Desmethylprodine ': [],
 'Buprenorphine': [('OH', 1821),
  ('VA', 1296),
  ('PA', 1274),
  ('KY', 1167),
  ('WV', 263)],
 'Butyryl fentanyl': [('PA', 10), ('OH', 8), ('VA', 1)],
 'Dextropropoxyphene': [('PA', 1)],
 '3,4-Methylenedioxy U-47700': [],
 'Meperidine': [('VA', 3), ('KY', 3), ('OH', 2)],
 'Pentazocine': [('OH', 1), ('PA', 1)],
 'Morphine': [('OH', 423), ('VA', 292), ('KY', 174), ('PA', 171), ('WV', 41)],
 '3-Fluorofentanyl': [],
 'Opium': [('VA', 1)],
 '3-Methylfentanyl': [],
 'U-51754': [],
 'U-48800': [],
 'Dihydromorphone': [],
 'o-Fluorofentanyl': [],
 'Propoxyphene': [('OH', 18), ('KY', 5), ('PA', 5)],
 'Oxymorphone': [('OH', 157),
  ('VA', 140),
  ('WV', 98),
  ('KY', 88),
  ('PA', 82)],
 'Fluoroisobutyryl fentanyl': [],
 'Crotonyl fentanyl': [],
 'Mitragynine': [('OH', 4), ('KY', 4), ('PA', 1)],
 'Tramadol': [('OH', 630), ('PA', 216), ('VA', 161), ('KY', 81), ('WV', 15)],
 'Metazocine': [],
 'Valeryl fentanyl': [],
 'Dihydrocodeine': [],
 'Acetyldihydrocodeine': [('PA', 1)],
 'Fentanyl': [('OH', 3992),
  ('PA', 1099),
  ('KY', 515),
  ('VA', 273),
  ('WV', 106)],
 'Fluorofentanyl': [],
 'Heroin': [('OH', 23347),
  ('PA', 18964),

('KY', 4045),
 ('VA', 3583),
 ('WV', 1135)],
'Methadone': [('OH', 249), ('KY', 189), ('PA', 182), ('VA', 158), ('WV', 7)],
'Levorphanol': [],
'Acryl fentanyl': [],
'MT-45': [],
'p-Fluorofentanyl': [],
'p-methoxybutyryl fentanyl': [],
'Thebaine': [('OH', 2)],
'ANPP': [('OH', 1)],
'cis-3-methylfentanyl': [],
'Hydromorphone': [('VA', 251),
 ('WV', 133),
 ('OH', 74),
 ('KY', 56),
 ('PA', 55)],
'Benzylfentanyl': [],
'Hydrocodone': [('OH', 1506),
 ('KY', 1171),
 ('VA', 963),
 ('PA', 560),
 ('WV', 137)],
'Hydrocodeinone': [('PA', 1)],
'Methorphan': [('KY', 10), ('PA', 9), ('VA', 5), ('WV', 1)],
'Pethidine': [('KY', 1)],
'Acetylcodeine': [],
'Methoxyacetyl fentanyl': [],
'trans-3-Methylfentanyl': [],
'Cyclopropyl/Crotonyl Fentanyl': [],
'Furanyl fentanyl': [('OH', 1), ('PA', 1)],
'Codeine': [('PA', 205), ('OH', 187), ('VA', 62), ('KY', 42), ('WV', 1)],
'Opiates': [('PA', 1)],
'Cyclopentyl fentanyl': [],
'Remifentanil': [],
'Acetyl fentanyl': [('OH', 341),
 ('PA', 194),
 ('WV', 49),
 ('KY', 21),
 ('VA', 18)],
'Fluorobutyryl fentanyl ': [],
'U-49900': [],
'Oxycodone': [('OH', 4360),

('PA', 2618),
       ('KY', 2293),
       ('VA', 1603),
       ('WV', 585)],
     'Nalbuphine': [],
     'p-Fluorobutyryl fentanyl': [('OH', 2)],
     'Carfentanil': [],
     'Cyclopropyl fentanyl': [],
     '4-Methylfentanyl': [],
     'Tetrahydrofuran fentanyl': [],
     'Furanyl/3-Furanyl fentanyl': [],
     '4-Fluoroisobutyryl fentanyl': [],
     'Phenyl fentanyl': [],
     'Alphaprodine': [],
     'Isobutyryl fentanyl': [],
     'U-47700': [],
     'Butorphanol': [('OH', 1)]},
    2016: {'Desmethylprodine ': [],
     'Buprenorphine': [('OH', 2149),
       ('PA', 1230),
       ('VA', 1151),
       ('KY', 998),
       ('WV', 250)],
     'Butyryl fentanyl': [('PA', 11)],
     'Dextropropoxyphene': [('WV', 3), ('OH', 3)],
     '3,4-Methylenedioxy U-47700': [],
     'Meperidine': [('VA', 2), ('OH', 1), ('KY', 1)],
     'Pentazocine': [('VA', 1), ('OH', 1)],
     'Morphine': [('OH', 371), ('VA', 255), ('PA', 194), ('KY', 139), ('WV', 23)],
     '3-Fluorofentanyl': [('VA', 1)],
     'Opium': [('VA', 2)],
     '3-Methylfentanyl': [('OH', 325), ('PA', 134), ('VA', 8), ('WV', 1)],
     'U-51754': [],
     'U-48800': [],
     'Dihydromorphone': [],
     'o-Fluorofentanyl': [('OH', 4), ('VA', 3)],
     'Propoxyphene': [('OH', 17), ('PA', 5), ('VA', 3), ('KY', 1)],
     'Oxymorphone': [('VA', 174),
       ('OH', 120),
       ('WV', 102),
       ('PA', 77),
       ('KY', 70)],
     'Fluoroisobutyryl fentanyl': [('OH', 2)],

'Crotonyl fentanyl': [],
'Mitragynine': [('KY', 36), ('OH', 27), ('VA', 1)],
'Tramadol': [('OH', 738), ('VA', 221), ('PA', 215), ('KY', 61), ('WV', 17)],
'Metazocine': [],
'Valeryl fentanyl': [('PA', 17), ('OH', 2)],
'Dihydrocodeine': [('VA', 1), ('OH', 1)],
'Acetyldihydrocodeine': [('PA', 3)],
'Fentanyl': [('OH', 9228),
 ('PA', 3208),
 ('KY', 1075),
 ('VA', 799),
 ('WV', 194)],
'Fluorofentanyl': [('OH', 2), ('KY', 1)],
'Heroin': [('OH', 20877),
 ('PA', 17559),
 ('VA', 4261),
 ('KY', 3716),
 ('WV', 1168)],
'Methadone': [('OH', 219),
 ('VA', 208),
 ('PA', 136),
 ('KY', 119),
 ('WV', 18)],
'Levorphanol': [('PA', 1)],
'Acryl fentanyl': [('OH', 17), ('KY', 7), ('PA', 3), ('VA', 1), ('WV', 1)],
'MT-45': [('PA', 1)],
'p-Fluorofentanyl': [('OH', 6), ('WV', 1)],
'p-methoxybutyryl fentanyl': [('PA', 1)],
'Thebaine': [],
'ANPP': [('OH', 22), ('KY', 1), ('PA', 1)],
'cis-3-methylfentanyl': [('PA', 14)],
'Hydromorphone': [('VA', 250),
 ('WV', 139),
 ('OH', 71),
 ('PA', 39),
 ('KY', 27)],
'Benzylfentanyl': [],
'Hydrocodone': [('OH', 1535),
 ('KY', 1115),
 ('VA', 859),
 ('PA', 366),
 ('WV', 110)],
'Hydrocodeinone': [],

'Methorphan': [('KY', 14), ('PA', 14), ('VA', 5), ('WV', 3), ('OH', 1)],
'Pethidine': [],
'Acetylcodeine': [('PA', 3)],
'Methoxyacetyl fentanyl': [],
'trans-3-Methylfentanyl': [('PA', 14)],
'Cyclopropyl/Crotonyl Fentanyl': [],
'Furanyl fentanyl': [('OH', 642),
 ('PA', 299),
 ('VA', 182),
 ('KY', 60),
 ('WV', 23)],
'Codeine': [('OH', 181), ('PA', 153), ('VA', 70), ('KY', 36), ('WV', 8)],
'Opiates': [('OH', 9), ('PA', 2)],
'Cyclopentyl fentanyl': [],
'Remifentanil': [],
'Acetyl fentanyl': [('OH', 447),
 ('PA', 101),
 ('VA', 19),
 ('WV', 5),
 ('KY', 5)],
'Fluorobutyryl fentanyl ': [('WV', 1)],
'U-49900': [],
'Oxycodone': [('OH', 4298),
 ('PA', 2185),
 ('VA', 1693),
 ('KY', 1549),
 ('WV', 477)],
'Nalbuphine': [],
'p-Fluorobutyryl fentanyl': [('PA', 4), ('OH', 1), ('KY', 1)],
'Carfentanil': [('OH', 985), ('KY', 45), ('PA', 14), ('VA', 1), ('WV', 1)],
'Cyclopropyl fentanyl': [('KY', 1)],
'4-Methylfentanyl': [],
'Tetrahydrofuran fentanyl': [('OH', 3)],
'Furanyl/3-Furanyl fentanyl': [('WV', 1)],
'4-Fluoroisobutyryl fentanyl': [('PA', 67), ('VA', 10), ('OH', 1)],
'Phenyl fentanyl': [],
'Alphaprodine': [],
'Isobutyryl fentanyl': [],
'U-47700': [('OH', 164), ('PA', 93), ('KY', 15), ('VA', 14), ('WV', 2)],
'Butorphanol': []},
2017: {'Desmethylprodine ': [],
 'Buprenorphine': [('OH', 1992),
  ('PA', 1330),

('VA', 1322),
 ('KY', 874),
 ('WV', 141)],
'Butyryl fentanyl': [('OH', 213),
 ('PA', 110),
 ('KY', 17),
 ('VA', 5),
 ('WV', 3)],
'Dextropropoxyphene': [],
'3,4-Methylenedioxy U-47700': [('PA', 3)],
'Meperidine': [('VA', 3), ('KY', 1), ('PA', 1)],
'Pentazocine': [('OH', 2), ('KY', 1)],
'Morphine': [('OH', 315), ('PA', 263), ('VA', 228), ('KY', 108), ('WV', 9)],
'3-Fluorofentanyl': [],
'Opium': [('VA', 4), ('KY', 1)],
'3-Methylfentanyl': [('OH', 616), ('PA', 122), ('WV', 4), ('VA', 2)],
'U-51754': [('OH', 7)],
'U-48800': [('OH', 23), ('PA', 12)],
'Dihydromorphone': [],
'o-Fluorofentanyl': [],
'Propoxyphene': [('OH', 3), ('KY', 2), ('PA', 2), ('VA', 1)],
'Oxymorphone': [('VA', 142), ('OH', 95), ('KY', 58), ('PA', 51), ('WV', 44)],
'Fluoroisobutyryl fentanyl': [('OH', 101),
 ('PA', 36),
 ('VA', 12),
 ('KY', 4)],
'Crotonyl fentanyl': [('OH', 39)],
'Mitragynine': [('OH', 38), ('KY', 2), ('WV', 1)],
'Tramadol': [('OH', 845), ('PA', 477), ('VA', 210), ('KY', 115), ('WV', 21)],
'Metazocine': [('PA', 1)],
'Valeryl fentanyl': [('PA', 2)],
'Dihydrocodeine': [('OH', 2), ('VA', 1)],
'Acetyldihydrocodeine': [],
'Fentanyl': [('OH', 11619),
 ('PA', 8208),
 ('KY', 2369),
 ('VA', 1299),
 ('WV', 238)],
'Fluorofentanyl': [],
'Heroin': [('OH', 15045),
 ('PA', 13256),
 ('VA', 3869),
 ('KY', 3231),

('WV', 751)],
'Methadone': [('VA', 163), ('OH', 156), ('PA', 86), ('KY', 62), ('WV', 5)],
'Levorphanol': [],
'Acryl fentanyl': [('OH', 1210),
 ('PA', 60),
 ('KY', 45),
 ('WV', 12),
 ('VA', 9)],
'MT-45': [],
'p-Fluorofentanyl': [],
'p-methoxybutyryl fentanyl': [],
'Thebaine': [('OH', 5)],
'ANPP': [('OH', 255), ('KY', 18), ('PA', 18), ('VA', 4), ('WV', 1)],
'cis-3-methylfentanyl': [('PA', 9), ('KY', 2)],
'Hydromorphone': [('VA', 165),
 ('OH', 72),
 ('WV', 37),
 ('KY', 19),
 ('PA', 19)],
'Benzylfentanyl': [('OH', 115), ('PA', 36), ('VA', 1)],
'Hydrocodone': [('OH', 1171),
 ('KY', 916),
 ('VA', 754),
 ('PA', 325),
 ('WV', 98)],
'Hydrocodeinone': [],
'Methorphan': [('PA', 20), ('KY', 11), ('VA', 3), ('OH', 1)],
'Pethidine': [('PA', 1)],
'Acetylcodeine': [],
'Methoxyacetyl fentanyl': [('OH', 218),
 ('PA', 79),
 ('KY', 17),
 ('VA', 9),
 ('WV', 2)],
'trans-3-Methylfentanyl': [('PA', 7), ('KY', 2)],
'Cyclopropyl/Crotonyl Fentanyl': [('OH', 26)],
'Furanyl fentanyl': [('OH', 1095),
 ('PA', 421),
 ('VA', 388),
 ('KY', 88),
 ('WV', 19)],
'Codeine': [('OH', 171), ('PA', 155), ('VA', 73), ('KY', 36), ('WV', 5)],
'Opiates': [],

'Cyclopentyl fentanyl': [('KY', 1)],
'Remifentanil': [],
'Acetyl fentanyl': [('OH', 551),
 ('PA', 247),
 ('VA', 11),
 ('KY', 10),
 ('WV', 5)],
'Fluorobutyryl fentanyl ': [('OH', 22)],
'U-49900': [('OH', 17)],
'Oxycodone': [('OH', 3799),
 ('PA', 1772),
 ('VA', 1365),
 ('KY', 1114),
 ('WV', 187)],
'Nalbuphine': [],
'p-Fluorobutyryl fentanyl': [('PA', 6), ('VA', 2)],
'Carfentanil': [('OH', 4430),
 ('PA', 164),
 ('KY', 124),
 ('VA', 57),
 ('WV', 7)],
'Cyclopropyl fentanyl': [('OH', 730),
 ('PA', 102),
 ('KY', 78),
 ('VA', 27),
 ('WV', 3)],
'4-Methylfentanyl': [('OH', 5)],
'Tetrahydrofuran fentanyl': [('OH', 2), ('PA', 1)],
'Furanyl/3-Furanyl fentanyl': [('WV', 6)],
'4-Fluoroisobutyryl fentanyl': [('PA', 261),
 ('VA', 243),
 ('OH', 111),
 ('KY', 3),
 ('WV', 2)],
'Phenyl fentanyl': [('OH', 54), ('PA', 9), ('WV', 1)],
'Alphaprodine': [],
'Isobutyryl fentanyl': [('WV', 3), ('OH', 1)],
'U-47700': [('OH', 932), ('PA', 222), ('VA', 76), ('KY', 65), ('WV', 9)],
'Butorphanol': []}}