**Table 17. Formulas Used in Forecasting Psychiatric Bed Need, Selected States**

| State | Formula | Abbreviations |
|---|---|---|
| Alabama | 1. $EB_{(non\text{-}government)} \times BYP_{(\geq 5\ years\ old)} = BN$<br>2. $BN - EB = Net\ Bed\ Need$ | ADC = Average Daily Census<br>BN = Beds Needed<br>BYP = Base Year Population<br>EB = Existing Beds<br>PD = Patient Days<br>PYP = Projection Year Population<br>TOR = Target Occupancy Rate<br>UR = Utilization Rate |
| Alaska | 1. $PD_{(for\ preceding\ 3\ years)}/BYP = UR$<br>2. $(UR \times PYP)/365 = ADC$<br>3. $ADC/TOR_{(0.80)} = BN$<br>4. $BN - EB = Net\ Bed\ Need$<br>5. $BN \times Service\ Area\ Share\ of\ Population = Net\ Bed\ Need_{(Service\ Area)}$ | |
| Florida | $((PD_{(in\ District)}/BYP)/(365 \times TOR_{(0.75)})) = Net\ Beed\ Need$ | |
| Georgia | 1. $PD_{(age\ group)}/BYP_{(age\ group)} = UR_{(age\ group)}$<br>2. $UR_{(age\ group)} \times PYP_{(age\ group)} = UR_{(projection\ year)}$<br>3. $(UR_{(18\text{-}64)}/365) + (UR_{(65+)}/365) + (UR_{(0\text{-}17)}/365) = BN$<br>4. $BN + Adjustment\ Factor = BN_{(adjusted)}$<br>5. $BN(adjusted)/TOR_{(0.65\ rural;\ 0.75\ non\text{-}rural;\ 0.70\ teaching\ or\ children's\ hospital)} = Total\ BN$<br>6. $Total\ BN - EB = Net\ Bed\ Need$ | |
| Illinois | 1. $PD_{(base\ year)}/BYP = UR$<br>2. $UR \times PYP_{(5\ year\ projection)} = PD_{(projection\ year)}$<br>3. $PD_{(projection\ year)}/365 = ADC$<br>4. $ADC/TOR_{(0.85)} = BN$<br>5. $BN - EB = Net\ Bed\ Need$ | |
| Michigan | 1. $BYP_{(age\ group\ for\ planning\ area)} \times UR_{(age\ group)} = PD$<br>2. $PD/365 = ADC$<br>3. $ADC/TOR_{(0.75)} = BN$ | |
| North Carolina | 1. $PD_{(base\ year)} \times PYP = PD_{(projection\ year)}$<br>2. $PD_{(projection\ year)}/366 = ADC$<br>3. $ADC/TOR_{(0.75)} = BN$<br>4. $BN - EB = Net\ Bed\ Need$ | |
| South Carolina | 1. $UR \times PYP_{(5\ year)}/365 = ADC_{(projected)}$<br>2. $ADC_{(projected)}/TOR_{(0.70)} = BN$<br>3. $BN - EB = Net\ Bed\ Need$ | |

Source: MHCC Analysis of state Certificate of Need requirements.

*In addition to the bed need formula, Illinois has established a minimum bed need of 0.11 beds per 1,000 projected population.