



NMSC Projections Supplement for Fall 2020 Male and Female Prison Populations in New Mexico Have Continued to Decrease

The policies adopted by the state to combat COVID-19 will affect the prison population. However, as the crisis is continuing at this writing, it is difficult to create an accurate 10-year projection that accounts for dramatic changes that will likely come. Instead of publishing a long-term projection, NMSC has created a model for the population over a one-year term. These projections show population trends since the last report, as well as provide a short-term estimate of where the population is headed over the next year assuming trends continue with *no additional interventions*. Here are areas of uncertainty we are monitoring:

- The New Mexico Supreme Court has suspended jury trials Currently, jury trials are not being processed by the courts at least until the end of the year. However, in FY19 55% of closed new cases were settled through plea bargains (cases settled by plea bargain/total closed new cases) which could continue to feed in some new admissions. New admissions will likely decrease from current levels.
- Parole populations Parole admissions have shown a slight downward trend.
- NMCD population targets As a response to COVID-19, NMCD has set population targets at 75% of capacity.
 That puts a target at 5,332 males and 659 females. The targets are indicated on the graphs by a dashed red line.
- In House Parole There are 72 inmates serving In House Parole. These individuals will be eligible for release once they meet the conditions of parole including approved release plans. Of this group 3 are female, 69 are male.

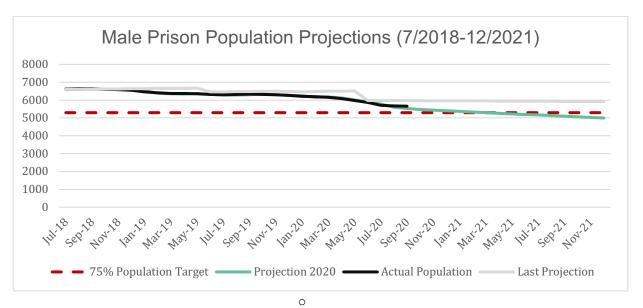
Table 2. In House Parole Count						
CNMCF	12	NENMCF	1	SNMCF	13	
GCCF	5	OCPF	11	SCC (Female Facility)	1	
LCCF	8	PNM	9	WWCF (Female Facility)	2	
NNMCF	8	RCC	2	GRAND TOTAL	72	

- Methodology: Male and female projections were generated separately using ARIMA models based on the peak
 population each month extending back to January 2001. Both models were initiated in April of 2019 where the
 steepest decline begins. When selecting a model, there are often many viable options. In addition to looking at
 quantitative data, consideration of qualitative trends and policy changes is key. Keeping in mind the external
 indicators pointing to a decrease in population, the models were chosen for their downward trend.
 - Male: The dataset was differenced once to induce stationarity. An ARIMA model of AR=1 and MA=2 was selected. Using the projection to predict past values, the largest error is 2.37% of the known value.

¹ https://s3.amazonaws.com/realfile3016b036-bbd3-4ec4-ba17-7539841f4d19/79968cf9-5462-40fd-a32bd338f4419f36?response-content-

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type=application%2Fpdf&AWSAccessKeyId=AKIAIMZX6TNBAOLKC6MQ&Signature=cUemg237%2ByRGDPj%2FyCEt 7Gd4dJA%3D&Expires=1606756902



 Female: The dataset was differenced once to induce stationarity. An ARIMA model of AR=1 and MA=1 was selected. Using the projection to predict past values, the largest error is 3.92% of the known value.

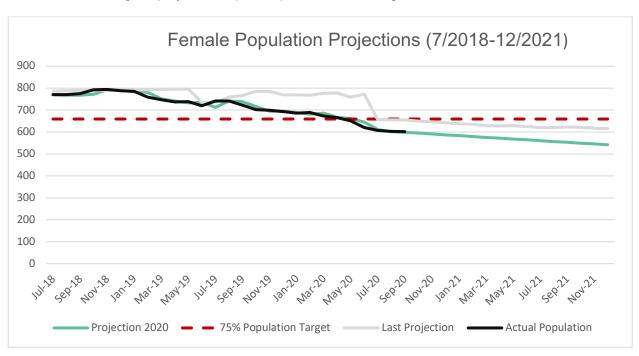


Table 3. Population Projection by Month (1/2021 to 12/2021)							
Date	Male Forecast	Female Forecast	Total Population Forecast				
Jan-21	5,359	583	5,943				
Feb-21	5,326	580	5,906				
Mar-21	5,293	576	5,869				
Apr-21	5,260	572	5,832				
May-21	5,227	568	5,795				
Jun-21	5,194	565	5,759				
Jul-21	5,161	561	5,722				
Aug-21	5,128	557	5,685				
Sep-21	5,096	553	5,649				
Oct-21	5,063	549	5,612				
Nov-21	5,030	546	5,575				
Dec-21	4,997	542	5,539				