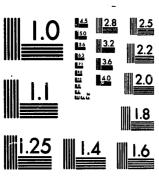
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COLORADO DEPARTMENT OF CORRECTIONS

VINMATE POPULATION PROJECTIONS 1980 - 1985

Prepared by the Office of Information Systems

> Tom G. Crago, Ph.D. Director and C. Scott Hromas Senior Researcher

> > March, 1980

Document #80-2

#### EXECUTIVE SUMMARY

Since 1976, the Department of Corrections has released inmate population projections which have proven invaluable in planning for subsequent budget years.

The key finding in this report is that Colorado, under our present sentencing laws and practice, may expect a prison population of 3214 inmates by 1984. This represents a 19% increase over the next four years, or growth of nearly 5% per year.

It is our hope that all components of Colorado's criminal justice community will work together in planning for the future, and that we will be prepared with adequate programs and facilities to accommodate these people.

Released March 5, 1980

**Executive Director** 

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#### OVERVIEW

Inmate population projections have been prepared by this office since 1976, with generally satisfactory results. The aggregate error rate for five projections prepared prior to the present one has been less than 2.5%. This is the average percentage by which our projections have fallen short of actual inmate populations. During this same period of time, the immate population has increased by 21.4%, from 2160 to 2623 persons. More recent projections have been more accurate than early ones (see Population Projections: Past and Present, 1975-1978 for further information).

Projections are revised after 6 or 12-month intervals, depending upon whether any major violation of our assumptions occurs during the 6 months following release of a projection. This has occurred twice, first in 1978, and now in 1980. In 1978, a special research project, directed by this office, documented an average length of incarceration which was significantly higher than previous estimates. Now, in 1980, we have begun to see some noticeable changes in sentencing patterns, particuarly among those offenders sentenced under Colorado's new presumptive sentencing law. Since this is an unexpected departure from previous assumptions, we will discuss those changes briefly before moving on to the new projections.

#### PRESUMPTIVE SENTENCING LAW

Colorado's presumptive sentencing law (H.B. 1589) calls for imposition of a fixed term of incarceration which must fall within a relatively narrow range, unless specific aggravating or mitigating circumstances justify a different sentence. In such cases, the term may be reduced to one-half of the lowest presumptive term, or increased to twice the highest presumptive term for that offense. Aggravated sentences are subject to automatic review by the Colorado Court of Appeals. The authority to grant probation was left intact and the legislative intent appears to have been that presumptive terms of incarceration should be imposed on those individuals who would have been incarcerated under previous law. The Department of Corrections retains authority to administer a system of 'good' time reductions for sentences imposed by the courts, and the Parole Board was given a small amount of 'earned' time to administer.

There has been, and continues to be, much prosecutor discontent with the new terms, at least as publicized in the media. To a lesser extent, judges have been quoted as favoring longer terms for particular cases. Previous sentencing laws authorized indeterminate sentences, consisting of a minimum and maximum term. These maximum terms were as long as 50 years, as opposed to the 12-year term currently authorized for a similar crime.

At this point in time, with five months of new sentencing data available, we have identified four developments which were unexpected. Those four, and a brief explanation of their significance, are as follows:

1. The number of commitments has been higher than expected. The period from July to December of each year is one in which low commitment levels are normal. Commitments, however, have been 13.2% higher

than expected during this last period. This has occurred at the same time that unemployment rates have fallen, eliminating that key variable as a possible explanation. It is our belief that some judges have interpreted the new sentencing law as a presumption of incarceration, rather than a presumptive term for offenders who would have been incarcerated in any case. If this higher commitment rate is sustained over time, the total prison population will increase in direct proportion to the increased commitment rate. A 13.2% increase in the total prison population would amount to over 300 new prisoners within two-and-a-half years.

- 2. The use of consecutive sentencing is increasing. Last fiscal year, 1.6% of all commitments to the Department had one or more consecutive sentences at the time of arrival. The previous year's figure was 1.3%. During the first five months of the current year, the rate has jumped to 3.7% of all commitments and 8.8% among offenders receiving presumptive terms. A change of 7.2 percentage points (i.e., from 1.6% to 8.8%) would increase future prison populations by about 36 offenders.
- 3. The proportion of more serious felony convictions has increased. We have noted increases in the percentages of Class 1, Class 2, Class 3, and Habitual Criminal commitments since July 1, 1979. In 1978-79. 21.8% of our intake fell into one of these serious felony classes. During the first 5 months of 1979-80, 26.9% of our intake were in these four categories. We believe that some of these cases may have been continued from 1978-79 at the request of defense lawyers, in the hope that Colorado's new sentencing law might apply to all persons sentenced after July 1, 1979. (The new law actually applies only to crimes committed after July 1, 1979). Now, in 1979-80, these continued cases would be reaching final disposition. Given that prosecutors seem to be displeased with the new sentence lengths, we also believe that they may be prosecuting (and pleading) cases in higher classes than in the past. One effect of this change would be to lengthen the average length of incarceration. and therefore, future prison population levels.
- 4. The average presumptive sentence for each class is shorter than expected. Based on a survey of over 30 judges prior to passage of the new sentencing law, we were expecting the average sentence to be about 113% of the mid-point of each presumptive range. The average after five months is only 100% of the mid-point. We believe this figure will increase as more serious offenders come to trial and we see more than just the easy, frequently plea-bargained, cases. The impact of this development is that the average length of incarceration will be lower for offenders in a given felony class than originally expected. This, in turn, would produce a lower prison population.

Given these new developments, what can we say about presumptive sentencing and its impact on future prison populations? First, the number of commitments appears to be higher than past experience would have predicted. Second, the average length of incarceration (after considering points 2, 3 and 4 together) appears to be increasing. Both of these changes should add to future prison populations.

#### INMATE POPULATION PROJECTIONS

As with other recent projections, we have used a statistical projection model which is driven by several key assumptions about future events. Our "most likely" set of assumptions are as follows:

- 1. Colorado's unemployment rate will increase to 5.0% by December, 1981.
- 2. The average length of incarceration for offenders now being received will be 28.5 months.
- 3. A total of 3.7% of all commitments will have consecutive sentences.
- 4. Presumptive sentences will average 103% of the mid-point of the presumptive ranges.
- 5. No significant legislative, judicial, or executive changes in criminal law or policy will occur.

While we consider these to be "most likely", we have also prepared high and low projections based on different assumptions. The low set assumes that unemployment will not go over 4.5%, that length of incarceration will be 27.9 months, that 1.6% of all commitments will have consecutive sentences, and that presumptive sentences will average 100% of the mid-point in each range. The high series assumes that unemployment will reach 5.5%, that the average length of incarceration will be 29.1 months, that 8.0% of all commitments will have consecutive sentences, and that presumptive sentences will average 105% of the mid-point in each range.

These three projections are documented in the attached materials. The following table summarizes them.

## PROJECTED COMMITMENTS AND PRISON POPULATIONS 1980 - 1984

	Low Series		Most L		High Series		
	Commitments Population		Commitments Population		Commitments	Population	
1980 1981 1982	1294 1299	2688 2847 2974	1239 1324 1354	2704 2916 3101	1281 1380 1407	2746 3044 3285	
1983 1984	1299 1299	3016 3020	1354 1353	3191 3214	1406 1405	3386 3408	

## INCARCERATED POPULATION PROJECTION DATA COMPARISON OF FIVE PROJECTIONS ERROR RATE January, 1980

Projections Release Date	Year/Qtr.	Projections	Actual	Error Rate (Percentage)
2/76	1976-1	2140	2184	•
	1976-2	2134	2267	
	1976-3	2097 7 2117	2280	- 6.8%
	1976-4	2098	2308)	
12/76	1977-1	2346	2404	
	1977-2	2382 / 2350	2495	- 4.1%
	1977-3	2338	2464	- 4.1%
	1977-4	2336/	2419)	
2/78	1978-1	2453 2489	2438 2456	+ 1.3%
	1978-2	2525)	2474	
<del></del>				
9/78	1978-3	2511	2512	
	1978-4	2541 ( 2562	2525 ( 2556	+ .2%
	1979-1	2549	2598	•
	1979-2	2649/	2591/	•
6/79	1979-3	2545	2552	- 1.8%
100	1979-4	2540 \ \ 2542	2623	

APPENDICES

#### COMMITMENT PROJECTIONS

#### January, 1980

Most Likely

High

Low

Year

1980	1239	1239	1281
1981	1294	1324	1380
1982	1299	1354	1407
1983	1299	1354	1406
1984	1299	1353	1405
1985	1298	1353	1404
1986	1298	1353	1403
Fiscal Year	Low ,	Most Likely	High
1979-80	1253	1253	1275
1980-81	1268	1284	1334
1981-82	1297	1340	1394
1982-83	1299	1354	1407
1983-84	1299	1353	1405
1984-85	1298	1353	1404
1985-86	1298	1353	1404

### INCARCERATED POPULATION PROJECTIONS January, 1980

,		Low P	rojection		Most Like	ly Projec	tion	High I	Projectio	n
		1	Calendar			Calendar			Calendar	
Year	Qtr.	Population	Year	Year	Population	Year	Year	Population	Year	Year
1980	1	2702	•		2713			2736		
	2	2705		2645	2728	•	2654	2750		2665
	3	2669			2669			2724		
	4	2676	2688		2705	2704		2776	2746	
1981	1	2771			2816			2910		
	1 2 3	2828		2736	2895		2771	3019		2857
	3	2869			2944		-··-	3083		
	4	2920	2847	•	3008	2916		3164	3044	
1982	1	2974			3078		•	3250		
2002	2	2992		2939	3118		3037	3308		3201
	2 3 4	2959 -			3095			3285	•	
	4	2973	2974		3114	3101		3296	3285	
1983	1	3032			3191			3380		
	2	3043	1	3002	3222		3155	3426		3347
	3	. 2995		000-	3176			3376		0011
	4	2994	3016		3174	3191		3362	3386	
1984	1	3041			3231			3422	•	
2,,,	2	3046		3019	3247		3207.	3449		3402
	3	2997		-	3193			3392	,	0,0
	4	2996	3020	•	3184	3214	•	3371	3408	
1.985	<b>1</b> .	3041	•		3233			3425		
.1.703	2	3045	•	3020	3246		3214	3446		3408
	1 2 3	2996		JU20	3192			. 3389		3-7-0-5
	4	2995	3019		3183	3213		3368	3407	
1988	1	3040	*		3232	•		3422		
# 2 G f.	2	3044		3019	3245		3213	3444		3406
		2995		وعرب	3192		~~	3387		,
	3 4	2994	3018		3183	3213		3366	3405	
	4	477 <del>4</del>	20TO		2T02	JALJ		3300	2403 .	

#### NEW SENTENCING DATA JULY-NOVEMBER 1979

Class	<u>#</u>	<u>≰x</u>	x	Range	<u>cc</u>	<u>cs</u>
2 .	2	16	8.0	8-8	0	0
3	17	103.2	6.1	4-8	5	2
4	32	98.8	3.1	1.5-4	9 .	1
5	16	22.7	1.4	1-2	3	2
Habitual Criminal	1	35.0	35.0	35-35	0	1
Totals	68	275.7	4.1	in w	17	6

#### SENTENCE DATA SUMMARY

Class	Range	Mid-Point	Average	Percentage of Mid-Point
2	8-12	10.0	8.0	80%
3	4-8	6.0	6.1	102%
4	2-4	3.0	3.1	103%
5	1-2	1.5	1.4	93%

Total Weighted Average = 100%

January, 1980

#### SENTENCE LENGTHS FOR INTAKE DATA IN MONTHS

July - November 1979

Class	No.	% of Total	Sent. X Min.	Sent. X Max.	Sent. X Agg. Min.	Sent. X Agg. Max.	Number Concurrent	Number Consecutive
I	10	2.1	Life	Life	Life	Life	7,	0
II	21	4.3	13.9	22.1	15.1	23.8	6	1
III	92	18.7	5.1	10.1	5.5	10.8	28	7
ıv	222	45.2	1.0	5.1	1.1	5.3	67	6
<b>v</b> .	129	26.3	.5	3.1	.5	3.2	19	. 3
Sex Offender	s 5	1.0		Life		Life	2	0
Habitual Criminal (Little)		1.6	23.7	34.1	24.7	34.7	4	. 1
Habitual Criminal (Life)		.2	Life	Life	Life	Life	0	<b>o</b>
Misd.	_3_	6_		.6		6_	<u>· 1</u>	0
TOTALS	491	100.0	2.6	6.7	2.8	7.1	134	18
•		•	•	•	•		(27.3%)	(3.7%)

Average based on N = 475, excludes life sentences.

QUARTERLY FELON CLASS DISTRIBUTION

July, 1978 - November, 1979

			19	78		<b></b>			1	979		·	
		3rd.	Qtr.	4th.	Qtr.	1st.	Qtr.	2nd.	Qtr.	3rd.	Qtr.	OctNo	v. 1979
	Class	_#_	<u>%</u>	#	_%_	#	_%_	#	_%	#	_%_	#	_%
2	1	2	.7	3	1.1	4	1.3	7	2.6	4	1.4	6	3.0
	II.	7	2.4	6	2.2	6	2.0	8	3.0	15	5.1	6	3.0
	III	54	18.8	51	18.8	43	14.0	46	17.3	52	17.8	40	20.1
-9	IV	132	45.8	135	49.6	141	45.9	130	48.9	139	47.6	83	41.7
	· <b>v</b>	85	29.5	72	26.5	96	31.3	65	24.4	73	25.0	56	28.2
;	H.C.L.	1	.4	0		3	1.0	1	.4	4	1.4	4	2.0
1	H.C.B.	0		2	.7	1	.3	1	.4	0	0	1	.5
) }	s.o.	2	.7	ì	.4	4	1.3	4	1.5	3	1.0	2	1.0
-  -	Misd.	5	1.7	2_	7	9	2.9	4	1.5	2	.7	_1_	.5
ere e e e e e e e e e e e e e e e e e e	Total	288	100.0	. 272	100.0	307	100.0	266	100.0	292	100.0	199	100.0

## NEW COURT COMMITMENTS QUARTERLY FLUCTUATION RATE 1971-1979

Year	1st. Qtr.	2nd. Qtr.	3rd. Qtr.	4th. Qtr.
1971	251	280	223	261
1972	337	261	230	272
1973	293	294	257	245
1974	311	309	281	286
1975	346	404	355	. <b>334</b>
1976	353	343	270	. 345
1977	379	360	270	267
1978	347	341	288	<b>2</b> 72
1979	307	266	292	299
Total	2924	2858	2466	2581 = 10,829

lst. Qtr. = 2924/10,829 = 27.00% 2nd. Qtr. = 2858/10,829 = 26.39% 3rd. Qtr. = 2466/10,829 = 22.77% 4th. Qtr. = 2581/10,829 = 23.84%

Total = 100.00%

January, 1980

#### HISTORICAL AND ESTIMATED CLASS OF FELON DISTRIBUTION

#### January, 1980

	FY 1978-79	FY 1979-80 and Beyond	
Class of Felon	Intake Percentage	Estimated Intake Percentage	<u>:</u>
ı.	1.4	2.0	•
II	2.4	3.2	
III .	17.1	18.0	
IV	47.5	46.4	
<b>v</b> .	28.1	27.0	
Habitual Criminal (Life)	.4	.4	
Habitual Criminal (Little)	.5	1.5	
Sex Offenders	1.0	1.0	•.
Misdemeanors	1.6	<u>.5</u>	
Total	100.0	100.0	

# MOST LIKELY PROJECTION COMMITMENT BASE DATA January, 1980

#### A. Base Commitment Model (Annual)

Year	Average Unemployment <u>Rate</u>	Average 18-49 Male Population	Annual Commits
1974	3.55	5.363	1187
1975	<b>5.2</b> 75	5.556	1439
<b>1976</b> .	4.927	5.681	1311
1977	4.657	5.810	1276
<b>1978</b> .	3.722	5.954	1248
<b>19</b> 79	3.282	6.093	1164

#### B. Correlation Matrix

	Unemployment	Population	Commits
Unemployment		36	.92
Population		·,	33

#### C. $R^2 = .8550$ (explained variance)

D. Equation: 
$$Y^1 = 111.03V_1 - 1.62P_2 + 809.88$$

#### E. Commitment Projections 1980-1986

Year	Most Likely Estimated Average Annual Unemployment Rate	Middle Population 18-49 Males	Expected Commitments
1980	3.955	6.305	1239
1981	4.725	6.513	1324
1982	5.0	6.702	1354
1983	5.0	6.911	1354
1984	5.0	7.145	1353
1985	5.0	7.377	1353
1986	5.0	7.610	1353

#### F. Most Likely Commitment Projections - January, 1980

Year	Qtr.	Quarterly Expected Commits	Annual Commits	Fiscal Year Commits
1980	1 2 3 4	335 327 282 295	1239	1253
1981	1 2 3 4	358 349 301 316	1324	1284
1982	1 2 3 4	366 357 308 323	1354	1340
1983	1 2 3 4	366 357 308 323	1354	1354
1984	1 2 3 4	365 357 308 323	1353	1353
1985	1 2 3 4	365 357 308 323	1353	1353
1986	1 2 3 4	365 357 308 323	1353	1353

#### INCARCERATION PROJECTIONS

#### January, 1980

			Low	Most	Likely	Ні	gh
		Length Of Stay	,	Length Of Stay		Length Of Stay	
Class	_%_	100%	<u>% x Time</u>	103%	% x Time	105%	% x Time
I	2.0	240	480	240	480	240	480
II	3.2	60	192	61.8	197.76	63	201.6
III	18.0	36	648	37.08	667.44	37.8	680.4
IV	46.4	18	835.2	18.54	860.26	18.9	876.96
V	27.0	9	243.0	9.27	250.29	9.45	255.15
H.C.	.4	240.0	96.0	240.0	96.0	240.0	96.0
(Life)							
H.C.	1.5	142.2	213.3	142.2	213.3	142.2	213.3
(Little)							
Sex Off.	1.0	38.6	38.6	38.6	38.6	38.6	38.6
Misd.	.5	8.8	4.4	8.8	4.4	8.8	4.4
Totals	100.0		2750.50		2808.05		2846.41
Reparole:			27.50		27.50		27.50
Consecuti	ve:		7.43		17.18		37.15
			2785.43		2852.73		2911.06
			= 27.9 m	os.	= 28.5 mos	•	= 29.1 mos

#### A. Reparole - Length of Stay

 $\frac{110 \text{ revocations } \times 3 \text{ month stay}}{12} = 27.50$ 

#### B. Consecutive Sentences = 3.7% for July-Nov. 1979

Class	<u>%`</u>	Consc. Increase	% x Time
II	3.2	1.2	3.84
III	18.0	.4	7.20
IV	46.4	.1	4.64
H.C.	1.5	1.0	1.50
(Littl	e)		17.18

#### Proportion Rates

1.	Low	=	1.6%	=	7.43
2.	Most Likely	=	3.7%	=	17.18
3.	High	=	8.0%	=	37.15

#### MOST LIKELY POPULATION PROJECTIONS

Yr. & Co	Commit-	Agg. Length of	YEAR AND QUARTER																		
Qtr.	ments	Stay	77-3	.77-4	78-1	78-2	78-3	78-4	79-1	79-2	79-3	79-4	80-1	80-2	80-3	80-4	81-1	81-2	81-3	81-4	82-1
77-3	. 270	25.9	270	270	270	270	270	270	270	270	(171)	٠.	, ;								
77-4	. 267	26.4		267	267	267	267	267	267	267		(210)				<del> </del>		-		<del> </del> -	
78-1	347	26.7			347	347	347	347	347	347	347	347	(312)		<del> </del>	<del> </del>	<del> </del>	<del> </del>		<del> </del> -	<del> </del>
78-2	341	27.0				341	341	341	341	341	341	341	341	341			·			1	
78-3	288	27.3					288	288	288	288	288	288	288	288	288	( 29)	<b></b>			<del>                                     </del>	
78-4	272	27.6						272	272	272	272	272	272	272	272	272	( 54)	<del> </del> -			<del> </del>
79-1	308	27.9							308	308	308	308	308	308	308	308	308	(92)			
79-2	266	28.2								266	266	266	266	266	266	266	266	266	(1.06)		
79-3	292	28.5									292	292	292	292	292	292	292	292	292	(1.46)	
79-4	299	28.5										299	299	299	299	299	299	299	299	299	(149)
80-1	335	28.5							,				335	335	335	335	335	335	335	335	335
80-2	327	28.5												327	327	327	327	327	327	327	327
80-3	282	28.5			(0.										282	282	282	282	282	282	282
80-4	295	28.5														295	295	295	295	295	295
81-1	358	28.5										•					358	358	358	358	358
81-2	349	28.5								,								349	349	349	349
81-3	301	28.5																	301	301	301
81-4	316	28.5																		316	316
82-1	366	28.5							· · · ·											<b></b>	366
rotal	Inmate Pop	ulation	2464	2419	2438	2474	2512	2525	2598	2591	2552	2623	2713	2728	2669	2705	2816	2895	2944	3008	3078

#### MOST LIKELY POPULATION PROJECTIONS

Yr. &	Commit-	Agg. Length of	YEAR AND QUARTER  82-2 82-3 82-4 83-1 83-2 83-3 83-4 84-1 84-2 84-3 84-4 85-1 85-2 85-3 85-4 86-1																		
Qtr.	ments	Stay	82-2	82-3	82-4	83-1	83-2	83-3	83-4	84-1	84-2	84-3	84-4	85-1	85-2	85-3	85-4	86-1	86-2	86-3	86-4
80-1	335	28.5	(167)																		
80-2	327	28.5	327	(163)																	
80-3	282	28.5	282	282	(141	)															·
80-4	295	28.5	295	295	295	(147)															
81-1	358	28.5	358	358	358	358	(179														
81-2	349	28.5	349	349	349	349	349	(174	)												
81-3	301	28.5	301	301	301	301	301	301	(150)												
81-4	316	28.5	316	316	316		316	316		(158									·		
82-1	366	28.5	366	366	366		366	366	366	366											
82-2	357	28.5	357	357	357	357	357	357	357	357	357	(178)									
82-3	308	28.5	·	308	308	308	308	308	308	. 308	308	308	(154)								
82-4	323	28.5			323	323	323	323	323	323	323	323	323	(161)							
83-1	366	28.5				366	366	366			366	366	366	366							
83-2	357	28.5					357	357	357		357	357	357	357		(178)					
83-3	308	28.5						308			308	308	308	308	308		(154)				
83-4	323	28,5							323		323	323	323	323	323	323	323	(161)			
84-1	365	28.5								365	365	365	365	365	365	365	365		(182)		
84-2	357	28.5									357	357	357	357	357	357	357	357	357	(178	
84-3	308 .	28.5										308	308	308	308	308	308	308	308		(1.54
84-4	323	28.5											323	323	323	323	323	323	323	323	323
85-1	365	28.5												365	365	365	365	365	365	365	365
8.5 <b>-</b> 2	357	28.5													357	357	357	357	357	357	357
85-3	308	28.5														308	308	308	308	308	308
85-4	323	28.5	·														323	323	323	323	32:
36-1.	365	28.5			1		1											365	365	365	36
86-2	357	28.5							1	1									357	357	357
86-3	308	28.5		<b></b>	1															308	308
86-4	323	28.5																			323
					1				1												
Cotal T	nmate Popu	lation	3118	3095	3114	3101	3222	3176	3174	3231	3247	3193	3184	3233	3246	3192	3183	3232	3245	3192	3183

# END