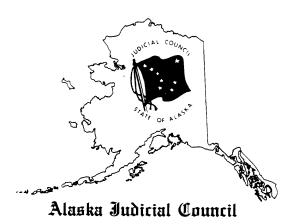
JUNE, 1982

ALASKA PRISON POPULATION
IMPACT ANALYSIS
Alaska Judicial Council



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PREFACE

This prison population impact analysis constitutes the final report of work begun by the Judicial Council in early It was made possible by the cooperation and assistance of several agencies and sources. First, it would not have been possible without data collected by the Judicial Council (funded in its FY'81 fiscal budget) concerning 1980 felony sentences, and demonstrates the collateral utility of the Council's ongoing studies of felony offenses and sentences. In addition, the Departmenty of Health and Social Services contributed funding of \$7,916, the Governor's Commission on Criminal Justice provided \$6,000 and the Division of Corrections and Alaska Parole Board provided considerable statistical input necessary for the analysis. The Judicial Council also wishes to thank the Minnesota Sentencing Guidelines Committee for its valuable assistance, including a computer program designed to project prison populations. Special appreciation goes to Nicholas Maroules whose analytical skills and writing abilities are reflected in the report.

We also wish to note that the results contained in sections III of this report, which project the anticipated impact of a legislative bill proposing changes in felony sentences, indicate outcomes different than those contained in a preliminary report published in March, 1982. This was due to an undetected error in the computer program which incorrectly adjusted sentence lengths for good-time awards. We regret any inconvenience occassioned by this error. The results contained in this report have been exhaustively re-examined and constitute our final projection models.

I. INTRODUCTION

Over the past two years, Alaska's prisons have experienced unparalleled increases in inmate populations. Unfortunately, these increases were both unanticipated and unaccounted for, underscoring the need for scientifically based projections of future prison populations. The purpose of this report is to provide an empirically-based and statistically rigorous insight into the parameters of future corrections populations. The report expands and elaborates on work begun in this area by the Judicial Council in early 1982.

The projection analysis relies upon a sophisticated computer program originally designed by the Minnesota Sentencing Guidelines Commission that has been modified and tailored to more accurately capture the dynamics of Alaska's corrections system. Three sets of projection models covering five years of future sentenced felon prison populations have The first includes five empirically developed been developed. models based on the universe of 1980 felony dispositions in Alaska, adjusting for various levels of conviction rate growth. The second set includes another five models estimating the impact of a legislative proposal (HB 293) to extend presumptive sentencing to all felony offenders, again adjusting for growth. Finally, estimates of the additional impact of Alaska's new drug law to each of the above models is provided.

Scope of the Problem:

There are three essential components to Alaska's prison population, including (1) sentenced felons (including Alaskan offenders incarcerated in the Federal Bureau of Prisons), (2) unsentenced felons and (3) misdemeanants (both sentenced and unsentenced). Statistical data provided by the Division of Corrections indicates that the increase in prison populations is due mainly to the first two groups--sentenced and unsentenced felons. Between January 1, 1978 and January 1, 1982, the total felony population--sentenced and unsentenced--rose from 595 to 913 inmates, a 53% increase. Sentenced felons rose from 458 on January 1, 1978, to 717 on January 1, 1982, a 57% increase. During the same period unsentenced felons rose from 137 to 196, a 43% increase. During these four years, however, the number of misdemeanants in Alaska's system has remained stable at 140, plus or minus 20.

At the present time, the Division of Corrections maintains ten jail/prison facilities in Alaska. The following table reflects the normal and emergency operating capacities of the ten facilities and the number of prisoners in each facility as of February 1, 1982.

TABLE I

CAPACITIES OF
ALASKAN CORRECTIONAL INSTITUTIONS

STATE INSTITUTIONS	NORMAL OPERATING CAPACITY	EMERGENCY OPERATING CAPACITY	02/01/82 PRISONER COUNT	% of NORMAL CAPACITY
Ketchikan	22	30	21	95%
Juneau	90	100	111	123%
Anchorage - 3rd Ave.	70	80	81	116%
Anchorage - 6th Ave.	100	115	133	133%
Ridgeview Men's	50	50	46	92%
Eagle River Men's	80	100	112	140%
Eagle River Women's	28	30	21	75%
Palmer	113	113	107	95%
Fairbanks	110	118	164	149%
Nome	30	34	32	107%
TOTALS	693	770	828	119%

In addition to the 828 prisoners in state correctional facilities on February 1, 1982, there were 190 prisoners housed in federal institutions (Federal Bureau of Prisons) outside Alaska.

Scope and Method of Analysis:

The prison population projection impact models which follow are strictly limited to estimating changes among the sentenced felon population. Limiting the scope of the projection models to sentenced felons was mandated by two concerns. First, grossly inadequate data is currently available on unsentenced felons in Alaska's criminal justice system. The Judicial Council data relied upon in developing the projection models includes offenders convicted and sentenced for felonies and is thus most appropriate for an analysis of population impacts on this group. Second, and more importantly, the great preponderance of the dramatic increase in prison populations over the past four years has concerned the sentenced felon portion of the population.

As noted above, the analysis relies upon a sophisticated computer program that considers the interaction of two distinct and fundamentally important data bases simultaneously in projecting future population changes. The first is a base file of all sentenced felon inmates incarcerated in Alaskan prisons (including those in the Federal Bureau of Prisons) as of February 1, 1982, and includes the

month of their probable release. This data base provides a "snapshot" of the current inmate population, and serves to inform the program of the beds currently available and the month when each bed becomes available for a new inmate. The second is a micro data base which includes the felony dispositions and sentences of all offenders for a given year. The micro file for the first set of projection models is the Judicial Council's data representing the universe of 1980 Alaska felony dispositions and sentences. Changes to or modifications of the micro file necessary for each set of projection models are fully described in each section. Finally, as described more fully later, the program also contains an adjustment file which reduces the sentences imposed by the court to reflect anticipated good time allowance and/or parole.

II. PROJECTING ALASKA'S FUTURE SENTENCED FELON PRISON POPULATIONS BASED ON 1980 FELONY DISPOSITIONS

The analytical projections presented in this section provide five alternative considerations of the impact of 1980 felony offense dispositions on Alaska's prison population for the next sixty months. Each of the models is predicated upon the empirical universe of 1980 felony offenses resulting in conviction with modifications for varying levels of increases in crime rate and convictions.

The efficacy of each model relies upon the assumption that 1980 dispositions and sentences are sufficiently representative of what is likely to occur over the 1982-1986 period that the projection models provide reasonably valid parameters of future population changes. While dispositions and sentencing patterns fluctuate from year to year, a comparison of 1980 offense and sentence patterns with those of past study periods confirms the general reliability and representativeness of this data. Most importantly, this data constitutes the best and most rigorous empirical information available concerning felony dispositions and sentences under Alaska's new criminal code.

In addition to the adjustments provided for variations in crime/conviction rates since 1980, adjustment was also made for the variance between the sentences imposed by the courts and those likely to be actually served by offenders. The sentences imposed by judges were reduced to reflect both good time deductions and where applicable, parole decisions.

After careful consideration of statistical information provided by the Alaska State Board of Parole and The Division of Corrections, court imposed sentences were reduced on an aggregate basis for presumptively and non-presumptively sentenced offenders. Presumptively sentenced offenders are eligible for a maximum 25% good time reduction only; they are not subject to parole decisions. In an effort to calculate the most reasonably conservative impact upon the system while not deviating substantially from the available empirical information, the sentences of all presumptively sentenced offenders were reduced by the maximum 25% good time allotment. Non-presumptively sentenced offenders are eligible for both the 25% (maximum) good time as well as parole. On the basis of the statistical information available on past parole decisions the sentences of these offenders were reduced by 35%.

There is one notable caveat regarding these projection models. Due to very limited available information on probation and parole revocations, the impact of these factors on future prison populations is unknown and is thus not included in this analysis.

The following tables provide five projection models of Alaska's sentenced felon prison population. Model #1 makes no allowance for a growth rate in convictions—it simply replicates 1980 felony offense dispositions for the five year period between 1982—1986. Models #2 through #5 each begin by adjusting for a 20% increase in convictions in the first year (1982) over the 1980 base period to approximate the serious increase in crime experienced in Alaska over the past two years. Model #2 then assumes no further growth while models #3, #4 and #5 reflect per annum growth (over the 1980 base) of 5%, 10% and 20%, respectively, for the second through fifth years of the projections (1983 through 1986). As noted, the projections were calculated only for the sentenced felon population, which, in February, 1982, included n=665 inmates including those in the Federal Bureau of Prisons.

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TABLE II - MODEL #1

(1980 Convictions - No Growth)

			YEAR		
	$(1\overline{982})$	$(1\overline{983})$	$(1\overline{984})$	(1985)	$(1\overline{986})$
12th Month	672	698	695	699	676
Lowest Month	672	691	695	699	676
<u>Highest Month</u>	717	716	738	734	729
Annual Average	693	702	717	720	703

<u>MONTH</u>												
<u>Year</u>	_1_		_3_	_4_	_5_	_6_	_7_	_8_	9	10	11	12
$\frac{1}{(1982)}$	677	680	684	684	698	710	717	709	706	698	688	672
$\frac{2}{(1983)}$	705	691	697	716	711	703	696	695	708	703	711	698
$\frac{3}{(1984)}$	729	738	738	725	721	714	712	700	712	704	718	695
4 (1985)	720	724	722	723	727	712	723	717	715	734	730	699
$\frac{5}{(1986)}$	721	718	714	719	729	722	706	685	679	677	696	676

TABLE III - MODEL #2

PROJECTED SENTENCED FELONY PRISON POPULATION COUNTS

(1980 Convictions--First Year Growth 20%, 0% Thereafter)

				YEAR	
	$(1\frac{1}{982})$	$(1\overline{983})$	$(1\overline{984})$	(1985)	$(1\overline{986})$
12th Month	719	771	780	793	771
Lowest Month	687	745	780	793	771
Highest Month	757	786	822	834	832
Annual Average	727	768	800	814	802

BASE POPULATION (2/1/82) = 665

MONTH 6 7 _5_ 8 9 Year (1982)(1983) $\frac{3}{(1984)}$ (1985)(1986)

TABLE IV - MODEL #3

(1980 Convictions--First Year Growth 20%, 5% Thereafter)

			YEAR		
	_1		_3_	4	
12th Month	719	786	816	859	866
Lowest Month	687	749	815	855	864
<u>Highest Month</u>	757	801	848	902	923
Annual Average	727	778	831	873	890

BASE POPULATION (2/1/82) = 665

${\tt MONTH}$

<u>Year</u>	1_			4	_5_	_6_		_8_	9	<u>10</u>	<u>11</u>	<u>12</u>
1	687	695	704	709	728	746	757	751	752	744	737	719
2	763	749	761	788	783	780	773	774	793	787	801	786
3	830	845	848	834	833	829	828	815	832	823	843	816
4	855	863	864	869	878	864	881	874	873	902	897	859
5	895	895	893	904	923	919	899	871	864	865	893	866

TABLE V - MODEL #4

(1980 Convictions--First Year Growth 20%, 10% Thereafter)

			YEAR		
	(1982)	(1983)	$(1\overline{984})$	(1985)	(1 986)
12th Month	719	801	854	929	972
Lowest Month	687	754	849	902	965
<u> Highest Month</u>	757	815	882	976	1024
Annual Average	727	788	863	935	989

						MONTH						
<u>Year</u>	_1_			_4_	_5_	_6_		_8_	9	10	<u>11</u>	12
$\frac{1}{(1982)}$	687	695	704	709	728	746	757	751	752	744	737	719
$\frac{2}{(1983)}$	767	754	767	796	791	790	783	785	806	801	815	801
$\frac{3}{(1984)}$	852	870	876	863	865	862	862	849	869	859	882	854
4 (1985)	902	914	918	926	938	926	947	941	940	976	971	929
<u>5</u> (1986)	978	981	982	997	1024	1024	1003	971	965	969	1004	972

TABLE VI - MODEL #5

(1980 Convictions--Growth of 20% For Each Year)

			YEAR		
	(1982)	$(1\overline{983})$	$(1\overline{984})$	(1985)	(1 986)
12th Month	719	830	934	1088	1227
Lowest Month	687	763	897	1005	1167
Highest Month	757	845	964	1141	1270
Annual Average	727	808	930	1074	1221

\underline{MONTH}												
<u>Year</u>	_1_	_2_	_3_	_4_	_5_	_6_	_7_	_8_	9	<u>10</u>	<u>11</u>	_12
$\frac{1}{(1982)}$	687	695	704	709	728	746	757	751	752	744	737	719
$\frac{2}{(1983)}$	774	763	780	813	809	810	805	808	832	827	845	830
$\frac{3}{(1984)}$	897	922	933	922	930	932	933	921	946	936	964	934
4 (1985)	1005	1025	1037	1052	1072	1063	1093	1089	1090	1141	1137	1088
<u>5</u> (1986)	1167	1180	1187	1220	1261	1270	1249	1208	1205	1218	1267	1227

Each of the above tables has two components. The first, at the top, provides a summary of the projected prison population count for each of the next five years. The second section, at the bottom, indicates the projected population count for each of the next sixty months.

Table II, which incorporates a no growth adjustment for 1980 felony dispositions, essentially replicates the number of felony offense convictions and sentences rendered in 1980 for each of the next five years. This projection model results in an anticipated change of -1 bed between month 1 (n=667) and month 60 (n=676). The lowest monthly count is 672 and the highest 738 for a range of only 66 beds. Finally, the maximum number of additional beds required over the February, 1982 inmate base population of 665 would be 73 (the highest month, n=738 less the base of n=665).

This projection model is very significant in revealing that were 1980 felony disposition and sentences replicated for each of the next five years, anticipated prison populations would have largely been stabilized. The significance of this fact will be more fully discussed, infra.

Models #3 and #4 each adjust for a 1982 growth of 20% over and above 1980 cases and provide for further and continuous growth of 5% and 10% per annum thereafter, respectively. They are intended to represent the most likely empirically-based projections of current felony disposition and

sentencing patterns on future jail populations. Model #3 reveals an increase of 179 beds between month 1 (n=687) and month 60 (n=866) and a fluctuation of 236 beds between the lowest monthly count (n=687) and the highest (n=923). A maximum of 923 beds would be required over the next sixty months, 258 more than the February, 1982 inmate base of 665. Model #4 results in an increase of 285 beds between months 1 and 60, a fluctuation of 337 beds between the lowest and highest months and a maximum of 359 beds over the 1982 inmate base.

Table VII, below, summarizes the net growth differentials projected by each of the five models based upon annual average population counts. This table also indicates the number and percentage increase in populations anticipated between year 1 and year 5 as well as that between the 1982 inmate base population and year 5.

TABLE VII

COMPARISON OF ANNUAL AVERAGE PRISON POPULATION COUNTS FOR FIVE PROJECTION MODELS BASED ON 1980 FELONY DISPOSITIONS

Mode1

		Mod	<u>e1</u>		
<u>YEAR</u>	#1 (no growth)	#2 (20%; 0%)	#3 (20%; 5%)	#4 (20%; 10%)	#5 (20%; 20%)
1/(1982)	693	727	727	727	727
2/(1983)	702	768	778	788	808
3/(1984)	717	800	831	863	930
4/(1985)	720	814	873	935	1074
5/(1986)	703	802	890	989	1221
Count Incr Between Year 1 and Year 5 % Increase Between Year 1 and Year 5	10	75	163 22%	262 36%	494
Count Incr Between 2/ Base Popul tion and Year 5	1/82	137	225	324	556
% Increase Between 2/1/82 Bas Population and Year 5	6% e	21%	34%	49%	84%

The projected increases among the sentenced felon prison population range from 38 additional beds (model #1) to 556 additional beds (model #5) over the next five years. As noted earlier, models #3 and #4, which project increases of 225 and 324 additional beds, respectively, over the 1982 inmate base provide the most likely current estimate of our prisons' future needs.

Finally, in discussing model #1, above, we noted that the sentenced felon population results in a largely stabilized population when 1980 felony dispositions and sentences are not adjusted for growth. This finding strongly discounts the theory that the recent (1980-1981) increase in prison populations was a result of Alaska's new criminal code or anything particularly unique regarding 1980 offenses or sentencing patterns. As this analysis reveals, replication of felony offense convictions and sentences rendered during the first year of Alaska's new criminal code (1980) does not result in continued population increases. In fact, it would require a phenomenon nearly equivalent to that represented in model #5 (conviction growth rate of 20% per annum) to equal the magnitude of the inmate population increase experienced by the Division of Corrections between January, 1978 and January, 1982.

On the basis of the prison population dynamics explicated in this analysis and review of the Judicial Council's past studies of felony sentencing patterns, we believe the increases experienced by the Division of

Corrections were the result of unusually high felony sentences rendered during the 1977-1978 period as documented in the Judicial Council's most recent report of sentencing practices, Alaska Felony Sentences: 1976-1979. According to this hypothesis, it is most likely that the dramatic population increase experienced in 1980-1981 was a function of fewer monthly releases from prison during this period--due to the sentencing practices of 1976-1977--rather than the number of new (1980-1981) monthly admissions.

III. PROJECTION MODELS ESTIMATING THE IMPACT OF HB 293--EXTENDING PRESUMPTIVE SENTENCING TO FELONY FIRST OFFENDERS--ON ALASKA'S PRISON POPULATION

This section of our projection analysis concerns an estimation of the impact of House Bill 293 on future sentenced felon prison populations. Despite the fact that Alaska's Twelfth Legislature has now adjourned, this analysis is included due to the considerable interest given to this bill and the likelihood that it will be considered in future legislative sessions.

In summary, HB 293 would extend presumptive sentencing to <u>all</u> (including first) felony offenders, with graduated presumptive terms of incarceration within all classes of offense according to the number and recency of prior felony convictions. In addition, the bill would increase the maximum "good time" award from 25% to 33% of the total sentence while effectively eliminating parole decisions, and institute a furlough program that would result in an additional 50% (maximum) reduction in sentence length for periods served while on the program.

The presumptive terms of incarceration prescribed by the bill are represented in the following chart.

PRESUMPTIVE SENTENCES UNDER HB 293 (In Months)

Class of Offense:	First Felony Offense	Second Felony Offense	Third Felony Offense
"A" Felony	60/70*	100	180
"B" Felony	24	48	7 2
"C" Felony	12	24	36

^{*} Applies to first offenders convicted of a Class A felony who used a weapon or caused serious injury.

Extending presumptive sentencing to felony first offenders is by far the most significant aspect of HB 293, since, according to Judicial Council studies of felony sentencing patterns, over 60% of all offenders are within the bill's definition of first offender. Accordingly, it is this aspect of the bill that this analysis models.

On the basis of both prior criminal history information contained in the Judicial Council's 1980 felony sentencing data and the empirical outcomes of presumptively sentenced (repeat) offenders for 1980 offenses, we estimated the number of offenders that would be subject to first-offense and second-offense presumptive terms for each class of felony had they been sentenced under the auspices of HB 293. A number of limitations in this model must be noted, however. unable to reliably determine or calculate an estimate of the number of offenders who would be subject to third-offense presumptive terms, owing largely to the very few number of cases thus sentenced in 1980. It is anticipated, however, that third-offense presumptive terms will become more frequent over time, resulting in longer sentences and additional burdens on Alaska's correctional resources. In addition, offenders convicted of drug offenses are not modeled according to this presumptive sentencing scheme. For purposes of this analysis drug offenses are modeled according to the dispositions and sentences rendered in 1980. A projection adjustment model estimating the further impact of Alaska's new drug laws is provided in Section IV of this report.

Despite the fact that a majority of presumptively sentenced 1980 offenders received a sentence other than the specific presumptive term--i.e., they were aggravated above or mitigated below the presumtpive sentence--all offenders in these models, with the exception of "C" felony first offenders, were assigned exactly the presumptive term applicable to them. This approach results in a reasonably conservative projected impact of presumptive sentencing on prison populations. Finally, in an effort to capture newly proposed mitigating factors applicable to first offenders, nearly half (45%) of the first offenders convicted of a class "C" felony were modeled as having their sentences totally mitigated--i.e., to straight probation.

As a parallel to the projection analysis discussed in Section II of this report, the maximum good time allowance under HB 293, 33%, was used to adjust all presumptively sentenced offenders' sentences.

The following tables provide five projection models estimating the impact of HB 293 on Alaska's sentenced felon prison population. All models rely upon the same February, 1982, inmate base population of n=665 used in Section II.

Model #6 makes no allowance for a conviction growth rate.

Models #7 through #10 each begin with a 20% conviction increase adjustment for year 1 (1982), followed by per annum growth increases of 0%, 5%, 10% and 20%, respectively, for the second through fifth years.

TABLE VIII - Mode1 #6

PROJECTED SENTENCED FELONY PRISON POPULATION COUNTS (MODEL OF HB293--NO GROWTH)

			Year		
	1		_3_	_4_	_5_
12th Month	768	769	765	762	768
Lowest Month	686	769	765	762	752
<u>Highest Month</u>	801	814	822	802	794
Annual Average	759	795	804	782	771

							M	onth				
<u>Year</u>	_1_	_2_	_3_	_4_	5	_6_	_7_	_8_	9	10	_11_	12
<u>1</u>	686	704	721	728	759	778	793	801	796	791	783	768
<u>2</u>	803	799	806	814	813	799	796	792	787	784	788	769
<u>3</u>	802	817	816	822	817	819	811	811	798	782	789	765
<u>4</u>	786	791	786	786	784	767	777	776	781	802	790	762
<u>5</u>	783	786	777	766	766	752	764	766	760	772	794	768

TABLE IX - MODEL #7

(MODEL OF HB293--20% GROWTH YEAR 1; 0% THEREAFTER)

			Year		
	1		3	_4_	_5
12th Month	834	857	864	869	882
Lowest Month	698	857	864	869	861
Highest Month	861	897	923	915	913
Annual Average	806	879	904	888	883

							M	onth				
<u>Year</u>	_1_		_3_	_4_	_5_	_6_		_8_	9_	10	11_	12
<u>1</u>	698	724	749	762	802	827	848	861	860	856	851	834
<u>2</u>	877	875	886	897	897	885	882	879	874	871	878	857
<u>3</u>	896	915	915	923	918	923	914	915	900	882	890	864
<u>4</u>	889	895	890	891	889	872	884	883	889	915	901	869
<u>5</u>	894	898	888	878	876	861	876	878	871	886	913	882

TABLE X - MODEL #8

(MODEL OF HB293--20% GROWTH FIRST YEAR 1; 5% THEREAFTER)

			Year		
	1		_3_	_4_	5
12th Month	834	877	910	949	1000
Lowest Month	698	877	910	942	964
Highest Month	861	908	967	1000	1036
Annual Average	806	893	946	960	988

							M	lonth				
<u>Year</u>	_1_		_3_	4	_5_	_6_		_8_	9_	10	11	12
1	698	724	749	762	802	827	848	861	860	856	851	834
<u>2</u>	881	880	893	907	908	899	898	896	893	890	899	877
<u>3</u>	924	947	951	961	959	967	959	962	947	928	939	910
<u>4</u>	924	954	953	957	958	942	958	959	968	1000	984	949
<u>5</u>	984	992	983	975	977	964	984	988	982	1002	1036	1000

TABLE XI - MODEL #9

(MODEL OF HB293--20% GROWTH FIRST YEAR 1; 10% THEREAFTER)

			Year		
	1	_2_	_3_	_4_	_5_
12th Month	834	897	959	1036	1135
Lowest Month	698	885	952	1002	1080
Highest Month	861	920	1012	1092	1175
Annual Average	806	907	989	1037	1107

							<u>l</u>	Month				
<u>Year</u>	_1_	_2_	_3_	_4_	_5_	_6_	_7_	_8_	9_	10	_11_	12
1	698	724	749	762	802	827	848	861	860	856	851	834
2	885	886	901	917	920	913	914	913	911	909	919	898
3	952	980	988	999	1001	1012	1006	1011	996	976	989	959
<u>4</u>	1002	1017	1019	1027	1032	1017	1038	1042	1054	1092	1074	1036
<u>5</u>	1083	1097	1089	1082	1089	1080	1105	1113	1107	1133	1175	1135

TABLE XII - MODEL #10

PROJECTED SENTENCED FELONY PRISON POPULATION COUNTS (MODEL OF HB293--20% GROWTH EACH YEAR)

	Year							
	1		3	_4_	_5_			
12th Month	834	937	1063	1223	1458			
Lowest Month	698	893	1009	1127	1309			
Highest Month	861	960	1114	1298	1509			
Annual Average	806	934	1079	1208	1386			

		Month										
<u>Year</u>	_1_	_2_	_3_	_4_	_5_	_6_		_8_	9	10	_11_	12
<u>1</u>	698	724	749	762	802	827	848	861	860	856	851	834
<u>2</u>	893	897	917	937	944	941	946	948	948	947	960	937
3	1009	1049	1064	1080	1088	1107	1104	1114	1099	1077	1095	1063
<u>4</u>	1127	1154	1166	1182	1195	1184	1217	1226	1246	1298	1278	1233
<u>5</u>	1309	1337	1334	1334	1354	1353	1393	1408	1405	1446	1509	1458

According to the projections in model #6 (Table VIII), which provide for no growth in convictions over and above those rendered in 1980, HB 293 would result in little growth over a five year period. The anticipated increase between month 1 (n=686) and month 60 (n=768) is 82 beds, while the range between the lowest month (n=686) and the highest month (n=822) is 136 inmate beds. Finally, the difference between the February, 1982 inmate base population (n=665) and the highest month (in year 3 of the model) reveals a net increase of 157 beds.

As noted in Section II, we believe the models anticipating 20% growth in convictions in year 1 followed by 5% or 10% per annum growth thereafter provide the most likely empirically-based projections for future population changes. In this section these models include #8 and #9, respectively. Model #8 reveals an increase of 302 beds between months 1 and 60, a range of 338 between the highest and lowest months and a net increase of 371 inmate beds between the 1982 inmate base population and the model's highest month. Model #9 results in a 437 bed increase between months 1 and 60, a range of 409 beds between the lowest and highest months and a net increase of 442 inmate beds between the 1982 inmate base population and the model's highest month.

Table XIII, below, summarizes and compares the annual average population counts for models #6 through #10. It

further reflects the number of additional beds and resulting percentage increases of each model between years 1 and 5, and the 1982 inmate base and year 5.

TABLE XIII

COMPARISON OF ANNUAL AVERAGE PRISON POPULATION COUNTS FOR FIVE GROWTH VARIATIONS OF HB293 MODELS

(BASE POPULATION (2/1/82) = 665)

Modol	Variation	(Cmarrth)
Model	variation	(Growth)

<u>YEAR</u>	No Growth	20%; 0%	20%; 5%	20%; 10%	20%; 20%
<u>1</u>	759	806	806	806	806
<u>2</u>	795	879	893	907	934
<u>3</u>	804	904	946	989	1079
<u>4</u> <u>5</u>	782	888	960	1037	1208
<u>5</u>	771	883	988	1107	1386
Count Incre Between Year 1 and Year 5	ease 12	77	182	301	580
% Increase Between Year 1 and Year 5	2%	10%	23%	37%	72%
Count Incre Between 2/1/82 Base Population Year 5	106	218	323	442	721
% Increase Between 2/1/82 Base Population Year 5		33%	49%	66%	108%

The projected increases for the sentenced felon prison population, using the HB 293 model, range from 106 to 721 additional beds over five years depending upon the level of growth in convictions. It is interesting to note, in conclusion, that each of these models of HB 293 result in increases of approximately 100 beds more over the five year projection period than those based strictly on 1980 outcomes (Section II). Table XIV below, summarizes the net increases in bed space anticipated for models #3 and #4 based on 1980 convictions and models #8 and #9 based on HB 293, those identified as the most likely future projection models.

TABLE XIV

COMPARISON OF FIVE YEAR OUTCOMES FOR 1980 AND HB 293 SENTENCED FELON PRISON POPULATION MODELS

(For models involving growth of 20%; 5% thereafter and 20% year 1; 10% thereafter)

<u>1980 Models:</u>	Fifty Year Increase In Beds Over 1982 Inmate Base Population	Fifth Year Proportionate Increase Over 1982 Inmate Base Population
#3 (20%; 5%)	225	34%
#4 (20%; 10%)	324	49%
HB 293 Models:		
#8 (20%; 5%)	323	49%
#9 (20%; 10%)	442	66%

IV. ESTIMATING THE IMPACT OF ALASKA'S NEW DRUG LAWS ON PROJECTION MODELS OF SENTENCED FELON PRISON POPULATION

The purpose of this analysis is to provide an estimate of the contribution of recently enacted drug legislation on the projection models discussed in Sections II and III of this report.

Drug offenses under the new legislation are brought within the scheme adopted by Alaska's new criminal code (effective in 1980), and are classified according to degrees of "Misconduct Including a Controlled Substance" (first through seventh degree). Of considerable importance for the prison population projection analysis, presumptive sentencing is effective with the new criminal code, and applies to felony drug offenses under the new law.

Drug offenses committed in 1980 were modeled in two different ways for this analysis--one for consideration of the new law's impact on the 1980 models (#1 through #5) and one for consideration of its impact on the HB 293 models (#6 through #10).

Insofar as the overwhelming number of drug offenders are first offenders under the definition of Alaska's new criminal code, modeling their sentences under HB 293 is rather

straightforward. In estimating the new law's impact on the five HB 293 models, all offenders, with the exception of some class "C" and "B" first offenders, were assigned exactly the presumptive term applicable to them. Nearly half (45%) of those offenders who would have been convicted of their first class "C" felony and roughly 15% of those convicted of their first class "B" felony were modeled as having their sentences totally mitigated (straight probation). This follows the same analytical logic used in calculating the HB 293 models discussed in Section III.

Modeling drug offense outcomes for the 1980 projection models was more difficult. While it is generally agreed that the new drug law will result in less straight-probation and stiffer penalties than those handed down in the past, estimating such outcomes for first offenders (who, without HB 293 are not subject to presumptive sentencing) is less than a precise science. For purposes of this model, offenders' sentences were assigned by taking the mean of aggregate groups based upon the class of offense, prior criminal history and type and amount of substance. In addition, first offenders who received a probationary sentence in 1980 were assigned probationary sentences.

Before discussing the estimated contribution of the new law to the ten projection models one very important caveat should be noted. The number and type of drug offenders modeled for the projection analysis is based upon those convicted for

1980 offenses under Alaska's old drug laws. Since the new law recriminalizes marijuana, these (new) offenses are necessarily disproportionately underrepresented in the 1980 data base. Accordingly, but contingent upon the future policies of law enforcement agencies and the Department of Law, the effect of such cases on prison populations cannot be ascertained at this time.

Tables XV and XVI, below, summarize the estimated contribution of the new drug law on the ten models included in this report. Table XV reflects the estimated contribution (in numbers of beds) to the annual averages for each of the five 1980 projection models, while Table XVI replicates the analysis for the five HB 293 projection models.

As would be anticipated, the estimated impact of the new law is greater under the HB 293 models than under the 1980 models. The impact upon annual average HB 293 counts is usually around 7% while the impact upon 1980 models averages around 4%.

TABLE XV

ESTIMATE CONTRIBUTION TO SENTENCED FELON PRISON POPULATION COUNTS FOR NEW DRUG LEGISLATION ON 1980 MODELS

Model

					
YEAR	#1 (no growth)	#2 (20%; 0%)	#3 (20%; 5%)	#4 (20%; 10%)	#5 (20%; 20%)
1	+ 8	+14	+14	+14	+14
	+24	+29	+28	+30	+31
3	+28	+37	+34	+29	+45
_4	+21	+29	+26	+32	+40
5	+27	+38	+32	+44	+58

TABLE XVI

ESTIMATE CONTRIBUTION TO SENTENCED FELON PRISON POPULATION COUNTS FOR NEW DRUG LEGISLATION ON HB293 MODELS

Mode1

YEAR	#6 (no growth)	#7 (20%; 0%)	#8 (20%; 5%)	#9 (20%; 10%)	#10 (20%; 20%)		
1	+14	+17	+17	+17	+17		
2	+40	+48	+49	+50	+52		
3	+39	+48	+51	+54	+61		
4	+44	+53	+59	+65	+82		
5	+48	+67	+69	+80	+109		

V. CONCLUSION

It is hoped that the projection models incorporated in this report prove to be of assistance in estimating the likely parameters of the future sentenced felon prison population, a group that has proven to be quite unstable in the recent past. While the models are predicated upon many assumptions of future crime and sentencing patterns, they provide a range of alternative outcomes that can be retested as such data becomes available. In addition, these models provide another insight into the sentenced felon population--viz., the likely cause for its sudden population increase over the past two years. It appears very likely that this increase was due more to 1977-1978 sentencing patterns than anything particularly unique regarding 1980-1981 offenses and/or sentences.

Figures I and II provide summary schematic illustrations of the ten projection model estimates included in this report. The estimated impact of Alaska's new drug law has been added to the outcomes represented in these figures.

