


UNIVERSITY OF TEXAS
AT ARLINGTON
HT
393
148
1445
no. 4

USER REFERENCE MANUAL
DW3000

ACTIVITY ASSESSMENT ROUTINE SOCIAL AND ECONOMIC COMPONENT

Prepared by<br>Texas Department of Water Resources Information Systems and Services Division<br>David L. Ferguson, Director<br>Mike 01 ivares, Analyst<br>Kevin McGee, Programmer



The General Land Office of Texas Bob Armstrong, Commissioner

August 1978

This is one of a series of technical papers, which cover a variety of topics. For information concerning other technical papers in this series, or to order more copies of this paper, contact:

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This technical paper is one of a series of seven papers in which the background material, models, and data used to develop the social and economic component (SEC) of the activity assessment routine (AAR) are discussed. Together, the papers are reference sources for the SEC user's manual and form a basis for further system development.

Staff members of the Environmental Management Division, Texas General Land Office, in Austin are available to assist interested parties in learning to use the system, and they welcome any questions, comments, and suggestions concerning the SEC.

The computerization of the SEC was done by the Information Systems and Services Division, Texas Department of Water Resources, for the General Land Office. This manual was also prepared by the Information Systems and Services Division. The director of the division is David L. Ferguson, the system analyst is Michael Olivares, and the programmer is Kevin McGee.


Bob Armstrong, Commissioner General Land Office of Texas

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WRITTEN FOR: Texas Coastal Management ProgramTexas General Land Office
BY: Information Systems and Services DivisionTexas Department of Water Resources
SYSTEM NUMBER: ..... DW3000
SYSTEM NAME: Activity Assessment Routine Social and Economic Component
COMPUTER: UNIVAC 1100/41
CORE SIZE: ..... 49K
LANGUAGE: FORTRAN V
ANALYST: Mike Olivares
PROGRAMMER: Kevin McGee

This documentation presents guidelines for use of the automated social and economic component (SEC) of the activity assessment routine. The SEC provides a mechanism for estimating the effects of development activities on social and economic systems of the Texas coast.

The social and economic component of the AAR was developed at the direction of the governor of Texas and the state legislature. It is primarily for use in the permitting process by state agencies which have responsibility for coastal resources. In addition to its use by state agencies in permitting, the SEC will be useful to local officials in planning to meet expected impacts of proposed development.


## TABLES PRODUCED

This program evaluates the impacts of an individual facility and produces the following tables:

1. Employment
2. Income
3. Gross Output
4. Industrial Water Use
5. Population
6. State and Local Fiscal Impacts
7. Housing
8. Educational Services
9. Law Enforcement
10. Fire Protection
11. Health Facilities
12. Health Care Personnel
13. Municipal Water Supply
14. Wastewater Treatment and Disposal
15. Solid Waste Disposal
16. Traffic Count
17. Road Damage
18. Noise
19. Administrative-Financial Capabilities
IV. USER REQUIREMENTS

## RUN SUBMISSION

The user is responsible for preparing the data deck in proper form. The deck will be turned into Production Control, along with a run request form, shown on the following page. Production Control will execute the run and return the results to the user. If any errors occur, Production Control will return the error listing to the user.

## GENERAL REQUEST FORM

TEXAS DEPARTMENT OF WATER RESOURCES

PRODUCTION CONTROL

## PRODUCTION RUN

Date: Today's date<br>Submitted By: User's name<br>Phone\#: User's phone no.

SYSTEM NUMBER: DW3000

Special Instructions: Please run the Social and Economic Component and return output to B1dg. ABC, Room XYZ.

Account Number To Be Used:

## ( Production

$\square$ Other

The use of the Activity Assessment Routine's Social and Economic Component requires the coding of 9 different types of cards as follows:

| Card No. | Description | Iterations |
| :---: | :---: | :---: |
| 1 | Activity-Specific Information | 1 |
| 2 | Activity- Specific Information | repeated for each time period |
| 3 | State Information | 1 |
| 4 | Regional Information | $i$ for construction, 1 for operation |
| 5 | Regional Information | 1 |
| 6 | County Information | repeated for each county |
| 7 | City Information | repeated for each city |
| 8 | School District Information | repeated for each school district |
| 9 | Road Segment Information | repeated for each road segment |

Refer to the Texas Coastal Management Program Activity Assessment Routine User's Manual as an aid in preparing the input data.

## CARD INPUT

The following cards are input to DW3000. All cards are required. The user should code these data cards on general purpose coding forms and submit them to Production Control along with a request form. All numberic data should be right-justified in the appropriate fields.

## Card 1

1. Enter PROJECT START DATE as 'MMDDYY'

$$
\text { where } \begin{aligned}
M M & =\text { two-digit month } \\
D D & =\text { two-digit day of month } \\
Y Y & =\text { two-digit year. }
\end{aligned}
$$

2. Enter NUMBER OF TIME PERIODS as a cumulative total.

For example, if there are 5 time periods for construction
and 3 for operation enter $\operatorname{ASIR6}(1)=5$ and $\operatorname{ASIR6}(2)=8$.
3. Enter PERCENT OF LOCAL HIRES as a decimal equivalent of percent. For example, $50 \%$ would be entered as .50 .
4. Enter PERCENT OF DIRECT EXPENDI TURES in I/O Region as a decimal number. For example, $25 \%$ would be .25 .

## Card 1



## FIELD

## DESCRIPTION

Card no. ('01')
Project Start Date (construction)
Project Start Date (operation)
Number of Time Periods (construction)
Number of Time Periods (operation)
Length of Project (construction) - in months
Length of Project (operation) - in months
Avg. Loaded Gross Vehicle Weight (in tons)
Avg. Loaded Gross Vehicle Weight (in tons)
Percent of Local Hires (construction)
Percent of Local Hires (operation)
Use of Condemnation Proceedings (1=yes, 2=no)
Current Activity on Site
Proposed Activity on Site (construction)
Proposed Activity on Site (operation)
Current Landscape Type on Site
SIC code (construction)
SIC code (operation)
Primary Activity Sector (construction)
Primary Activity Sector (operation)
Noise Level of Current Activity on Site
Noise Level of Proposed Activity (construction)
Noise Level of Proposed Activity (operation)
Noise Reduction Factor
Percent of Direct Expenditures to be made in Input/Output Region

LABEL

- I2

ASIR5(1) I6
ASIR5(2) I6
ASIR6(1) I3
ASIR6(2) I3
ASIR8(1) I3
ASIR8(2) I3
ASIRTO(1) I6
ASIR10(2) I6
ASIRT3(1) F3.2
ASIRT3(2) F3.2
ASIR15 I1
ASIR16 I2
ASIR17(1) I2
ASIR17(2) I2
ASIR18 I1
ASIR19(1) I4
ASIR19(2) I4
ASIR20(1) I2
ASIR20(2) I2
ASIR21
ASIR22(1)
ASIR22(2)
ASIR23
ASIR24

FORMAT

6

I2
I2
I2
I 1
F5. 3

Card 2

Enter the appropriate values as indicated on the next page.

## ACTIVITY-SPECIFIC INFORMATION

## Card 2



FIELD
1

DESCRIPTION
Card no. ('02')
Time Period
Size of Workforce (by time period)
Payments to Households (by time period)
Expenditures for Primary Sector Output
(by time period)
Water-Use by the Primary Sector (by time period)
Length of Time Period (in months)
Total Number of Truck Trips (by time period)
Number of Truck Trips Requiring Overload Permits
(by time period)
Gross Vehicle Weight of Truck Trips Requiring Overload Permits (by time period)
Number of Residences Displaced by Project
(by time period)

LABEL
FORMAT
I2
I3
-
ASIRT
I8
ASIR2
18
ASIR3
I9
ASIR4
F7. 0
ASIR7
I8
ASIR9
I8
ASI R11
ASIR12
18
ASIR14
I8

Card 3

Enter the appropriate numbers as indicated on the next page.

## SYSTEM INFORMATION

(STATE)
Card 3


## FIELD

DESCRIPTION
Card no. ( ${ }^{103 \text { ') }}$
State Population
Total State Employment
Total Number of Students

LABEL
-
SIRST1
SIRST2
SIRST3

FORMAT

I2
I8
I8
I8

## Card 4

Enter the appropriate numbers as indicated on the next page.
(REGION)
Card 4


FIELD

1
2
3
4
5
6
7
8

DESCRIPTION
Card no. ('04')
Phase ( $1=$ construction, $2=0$ peration)
Type II Employment Multiplier (Output)
Type II Income Multiplier (Output)
Type II Environmental Self Multiplier
Type II Output Multiplier
Type II State Tax Multiplier (Output)
Type II Local Govt. Tax Multiplier (Output)

LABEL
-
-
SIRRG1 SIRRG2 SIRRG3 SIRRG4 SIRRG5 SIRRG8

FORMAT
I2
I 1
F8. 6
F8. 6
F8. 6
F8. 6
F8. 6
F8. 6

## Card 5

Enter the appropriate values as indicated on the next page.

SYSTEM INFORMATION
(REGION)
Card 5


1
2
3
4
5
6
7

DESCRIPTION
Card no. ('05')
Total Regional Employment
Total Regional Personal Income
Regional Per Capita State Govt. Expenditures Regional Per Capita Local Govt. Expenditures Region Number
Region Name

LABEL
-
SIRRG6
SIRRG7
SIRRG9
SIRRG10
SIRRG11
SIRRG12

FORMAT
I2
F6. 0
F10.0
F5. 0
F5. 0
I2
Alpha

## Card 6

Enter the appropriate values as indicated on the next page.
(COUNTY)
Card 6


FIELD
1
2
3
4
5
6

DESCRIPTION
Card no. ( ${ }^{1061)}$
County no.
County Population
Number of Physicians
Number of Hospital Beds
County Name

LABEL
-
-
SIRCO1
SIRCO2
SIRCO 3
SI RCO4

FORMAT

I2
I2
I8
I6
I6
Alpha

## Card 7

1. If the fire protection is volunteer enter ' $V$ ' in volunteerflag; otherwise leave it blank.
2. If information on a specific city is unavailable (for instance, in the case of an unincorporated city) enter all 9's in the appropriate numeric fields.
(CITY)
Card 7


## FIELD

DESCRIPTION
LABEL
FORMAT
Card no. ('07')

- I2

City no.
City in I/O Region (1=yes, 0=no)
City Population
12
City Law Enforcement Personnel
City Fire Protection Personnel
Volunteer Flag
Reserve Water Production Capacity (m.g.d.)
Maximum Daily Water Usage (m.g.d.)
Reserve Wastewater Daily Flow (m.g.d.)
Maximum Daily Peak Wastewater Flow (m.g.d.)
Average Daily Solid Waste Disposal
Amount of Principal Outstanding on General
Obligation Bends
Current Total Assessed Valuation
Distance from Project Site (in miles)
City Name
-
SIRC14
12
SIRC1
I7
SIRC2
I4
SIRC3
SIRC15
SIRC4
SIRC5
SIRC6
SIRC7
SIRC9
SIRC10
SIRC11
SIRC12
SIRC13

F5. 0
A1
F5. 0
F5. 0
F5. 0
F5. 0
F5. 0
F10.0
F10.0
I2
Alpha

1. Enter up to 15 city numbers within one school district.

SYSTEM INFORMATION
(SCHOOL DISTRICT)
Card 8


| FIELD | DESCRIPTION | LABEL | FORMAT |
| :---: | :---: | :---: | :---: |
| 1 | Card no. ('08') | - | I2 |
| 2 | School District no. | - | I2 |
| 3 | Current Total Assessed Valuation | SIRSD1 | F10.0 |
| 4 | Amount of Principal Outstanding on General Obligation Bonds | SIRSD2 | F10.0 |
| 5 | Cities within School District | SIRSD3 | 1512 |
| 6 | School District Name | SIRSD4 | Alpha |

## Card 9

1. Enter PERCENT HEAVY TRUCK MIX as a decimal. For example, $50 \%$ would be entered as .50 .
2. Enter PERCENT OF TRUCK TRIPS USING SEGMENT as a decimal. For example, $75 \%$ would be entered as .75 .
3. Enter PERCENT OF OVERLOAD TRUCK TRIPS as a decimal.

For example, $40 \%$ would be entered as .40 .
4. Enter up to 15 cities within one road segment.
(ROAD SEGMENT)
Card 9

 $11 \mid 1111111 / 1111 / 1111 / 1111111 / 11111111111111111111111111111111111111111111111111111$



## FIELD

1
2
3
4
5
6
7

8

DESCRIPTION
Card no. ('09')
Road Segment no.
Current Avg. Daily Traffic Count
Current Percent Heavy Traffic Mix Cities Served by Road Segment
Road Segment Name
Percent of Non-Overload Truck Trips (construction)
Percent of Non-Overload Truck Trips (operation)
Percent of Overload Truck Trips (construction) Percent of Overload Truck Trips (operation)

LABEL
-
-
SIRRS 1
SIRRS2
SIRRS3
SIRRS4
SIRRS5(1)
SIRRS5(2)
SIRRS6(1)
SIRRS6(2)

FORMAT
I2
I2
I6
F3. 2
$15 I 2$
Alpha
F3. 2
F3. 2
F3. 2
F3. 2

## MESSAGE

...more than 25 counties...
...more than 25 cities...
...more than 25 school districts...
...more than 25 roads...
...multiple xx cards...
...invalid card number...
...more than 2 region cards...

EXPLANATION
DW3000 has capabilities to handle a maximum of 25 counties.

DW3000 has capabilities to handle a maximum of 25 cities.

DW3000 has capabilities to handle a maximum of 25 school districts.

DW3000 has capabilities to handle a maximum of 25 road segments.

A non-repeating card has been repeated.

A card with a card number other than 1 through 9 has been input.

More than 2 card '4's have been input.

SAMPLE OUTPUT
ACTTVITY ASSESSMEVT ROUTINE :
SOCIAL AND ECONOMIC
COMPONENT
THIS PROGRAM EVALUATES THE IMPACTS OF AN
INOIVIDUAL FACILITY ON IG FACTORS: YME
MPLOY
NCOME
EMPL
INCO
GROS
INDU
POPUL
population
STATE AND
6. STATE AND LOCAL FISCAL IMPACTS

IMPACTS ADE ASSESSED FOR THE FOLLOMI'IS
CITIES : AJSTAELL
VICTORIA
PORT LAVACA
POIIT COMFRT
SEADRIFT
EJNA
GANADO
PALACIOS
โ－ヘI ヨ78ヤ1
IMPACTED COUNTY AREA


$$
\begin{array}{lllrlr} 
& & & & 0 \\
1 & \text { AUSTWELL-TIVOLI SD } & \$ & 92421384 . & \$ & 0 . \\
2 & \text { VICTORIA CONS. ISD } & \$ & 4734995370 & \$ & 11053000 . \\
3 & \text { CALHOUN COUNTY ISD } & 5 & 352127173 . & \$ & 6655000 \\
4 & \text { EDNA ISD } & \$ & 71416180 . & \$ & 1834794 . \\
5 & \text { GANADO ISD } & \$ 7575270 . & \$ & 620000 . \\
6 & \text { PALACIOS ISO } & \$ & 152163900 . & \$ & 678800 .
\end{array}
$$

$$
\begin{aligned}
& \text { CURRENT VALUE } \\
& \text { OF GENERAL } \\
& \text { OBLIGATION BONDS }
\end{aligned}
$$

TABLE IV-3
ADMINISTRATIVE - FINANCIAL CADABILITIES


$$
\begin{array}{r}
272 \\
58065 \\
10491 \\
1450 \\
1500 \\
5900 \\
1640 \\
4500
\end{array}
$$

[^0]table iV-5
new restdent employees

| $\begin{gathered} \text { TIME } \\ \text { PERIOD } \end{gathered}$ | * | TOTAL DIRECT PROJECT EMPLOYMENT FOR EACH TIVE DERIOD | NUMBER OF LOCAL HIRES FOR EACH TIME PERIOD | number of <br> * NEW-RESIDENT EMDLOYEES <br> * in each time period |
| :---: | :---: | :---: | :---: | :---: |
| 1 |  | 38 | 19 | 19 |
| 2 |  | 317 | 158 | 159 |
| 3 |  | 1126 | 563 | 563 |
| 4 |  | 636 | 318 | 318 |
| 5 |  | 118 | 59 | 59 |


TABLE V-1
INDIRECT AND TOTAL EMPLOYMENT


53.76
492.34
1748.83
987.80
134.32

NEW
NEW *
TOTAL
.75
1.00
1.00
1.00
.25

38
317
1126
636
118



REGIONAL * 64446.
EMPLOYMENT*

TABLE V-3
GROSS OUTPUT (WITHIN I/O REGION)

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBABILITY : (POSSIBLE, PRORABLE, DEFINITE)
60414596.
12 MONTHS
48 MONTHS
MAGNITUDE:
MAGNITUDE :
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION:
MAXIMUM IMPACT
AVERAGE IMPACT
REGION GOLDEN CRESCENT $\begin{array}{ll}\text { TIME } & \text {＊TIME－WEIGHTED } \\ \text { WEIGHTED } & \text {＊NEW TOTAL } \\ \text { FACTOR } & \text {＊WATER }\end{array}$

$$
\begin{array}{rr}
.19 & .00 \\
.25 & 6.52 \\
.25 & 9.21 \\
.25 & 21.48 \\
.06 & 3.26 \\
\text { AVERAGE } & \\
\text { TIME-WEIGHTED } & 40.47 \\
\text { NEW TOTAL HATER } &
\end{array}
$$

＊＊＊IMPACT SUMYARY＊＊＊
DIRECTION ：（INCREASE，DECREASE，NO CHANGE） PROBAQILITY ：（POSSIBLE，DROBABLE，DEFINITE）

＊FRACTION OF＊INDIRECT
＊YEAR＊WATER
＊ADJUSTMENT＊
＊USE
INJIRECT AND TOTAL INDUSTRIAL WATER

$$
\begin{array}{cccc}
* \\
* & \text { FRACTION OF* INDIRECT } & * & \text { TOTAL } \\
\text { * ADAR JUSTMENT * } & \text { WATER } & * & \text { WATER } \\
* & \text { USE } & * & \text { USE }
\end{array}
$$

＊FRACTION OF＊INDIRECT
＊YEAR＊WATER
＊ADJUSTMENT＊
＊USE
$\begin{array}{lcccc}\text {＊FRACTION OF＊INDIRECT } & * & \text { TOTAL } \\ \text {＊YEAR } & \text { WATER } & * & \text { WATER } \\ * ~ A D J U S T M E N T ~ * ~ U S E ~ & * & \text { USE }\end{array}$
$ㅇ ㅡ ㅇ ㅇ ㅡ ㅇ ~$
0.0
응ㅇNN
（ACRE－FEET）
.00
26.09
36.83
85.93
52.17

RE
 $+1$
$\qquad$
MOVTHS IN
TIME
PERIOD
のッニッM：
1
2
3
4
5
roral
10 yrids

MAGNITUDE：
MAXIMUM IMPACT
AVERAGE IMPACT MAXIMUM IMPACT
> 85.93
40.47 12 MONTHS
48 MONTHS

TIVE
PERIOD
TABLE V-5
POPULATION POPULATION

*** IMPACT SUMMARY ***
DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE. PROBABLE. DEFINITE) MAGNITUDE:
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION:
MAXIMUM IMPACT
AVERAGE IMPACT

$$
\begin{aligned}
& .74 \% \\
& .37 \% \\
& 12 \text { MONTHS } \\
& 48 \text { MONTHS }
\end{aligned}
$$

| $\begin{array}{cc} \text { TIME } & { }^{*} \\ \text { PERIOD } \end{array}$ | MONTHS IN TIME PERIOD | $\begin{gathered} \text { * TOTAL NEW } \\ \text { * RESIDENT } \\ \text { * EMPLOYEES } \end{gathered}$ | ＊total NEw <br> ＊RESIDENTS | ＊percent change <br> ＊FROM CURRENT <br> ＊City population | ＊ | TIME.-WEIGHTING <br> FACTOR | TIME－WE IGHTED <br> NEW RESIDENTS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 9 | 12 | 29. | ． 05 |  | ． 19 | 5.4 |
| 2 | 12 | 98 | 235 • | ． 40 |  | ． 25 | 58.7 |
| 3 | 12 | 346 | 828. | 1.43 |  | ． 25 | 207.0 |
| 4 | 12 | 195 | 467. | .80 |  | ． 25 | 116.7 |
| 5 | 3 | 36 | 86. | ． 15 |  | ． 06 | 5.4 |
| $\begin{aligned} & \text { Toral } \\ & \text { Mowris } \end{aligned}$ | 48 |  |  |  |  | AVERAGE YIME－ WEIGHTED NEW RESIDENTS | 393.3 |
| $\begin{aligned} & \text { CuRREVT CIty } \\ & \text { opulation } \end{aligned}$ | 58065 |  |  |  |  | average percent <br> CHANGE FROM <br> CURRFNT POPULATION | ． 68 |

＊＊＊IMPACT SUMMARY＊＊＊ （39NVHJ ON •3S甘3甘J30 • 3S甘3甘JNI）：NOI 1 J3yIC PROBARILITY：（POSSISLE，OROBABLE，DEFINITE）

$$
\begin{array}{r}
1.43 \% \\
.68 \%
\end{array}
$$

12 MONTHS
49 MONTHS
MAXIMUM IMPACT
AVERAGE IMPACT
MAXIMUM IMPACT
AVERAGE IMPACT


on NNM
$\infty$
$\Rightarrow$
58065
GOLATION
TABLE V-5


$$
\begin{array}{lr}
.19 & 1.9 \\
.25 & 21.0 \\
.25 & 74.7 \\
.25 & 42.5 \\
.06 & 1.9 \\
\text { AGE TIME- } & \\
\text { HTED NEW } & \\
\text { DENTS } & 142.1 \\
\text { AGE PERCENT } & \\
\text { GE FROM } & \\
\text { ENT POPULATION } & 1.35 \\
& \\
& \\
\text { *** IMPACT SUMVARY } &
\end{array}
$$

$-\infty-\infty-\infty-\infty-\infty-\infty-\infty-\infty-\infty-\infty-\infty-\infty-\infty-\infty$

$$
\text { ( } \exists 9 N \forall H \supset \text { ON • } 35 \forall 3 \forall ว 3 G \text { • } 35 \forall 3 \forall 3 N I): ~ N O I \perp כ 3 Y I O
$$


$=\ln _{M \sim N}^{n} \underset{\sim}{n}$

NOILV7ndOd ( 35 NVH O ON • $35 \forall 3 \forall 23 \mathrm{G} \cdot 3 \mathrm{SV3} \mathrm{\forall 3NI):} \mathrm{NOI} \mathrm{\perp J3甘IO}$

$$
\begin{array}{lr}
1 & 9 \\
2 & 12 \\
3 & 12 \\
4 & 12 \\
5 & 3 \\
& \\
\text { TOTAL } & \\
\text { MONTHS } & \\
& \\
\text { CURRENTCITY } & 10491 \\
\text { POPULATION } &
\end{array}
$$

PROBARILIYY: (POSSIGLE, PROBABLE, DEFINITE)

[^1]

[^2] AVERAGE PERCENT
CHANGE FROM
CURRENT POPULATION
＊＊＊IMPACT SUMMARY＊＊＊
\[

$$
\begin{array}{ll}
t^{\circ} & 90^{\circ} \\
L^{\circ} \dagger & S Z^{\circ} \\
S^{\circ} 8^{\circ} & S Z^{\circ} \\
S^{\circ} \mathrm{Z} & 9 I^{\circ} \\
0^{\circ} & 6 I^{\circ}
\end{array}
$$
\]

AVERAGE TIME－ 15.9
1.09 AVERAGE PERCENT
CHANGE FROM
CURRFNT POPULATION NEW RESIDENTS
yO1 $2 \forall y$ 1HIWOO LNIOd：11IJ

DIRECTION：（INCREASE，DECREASE，NO CHANGE）

PROBABILITY：（POSSIBLE，PROBABLE，DEFINITE）

$$
\begin{array}{ll}
\text { MAGNITUDE : } & 2.34 \% \\
\text { MAXIMUM IMPACT } & 1.09 \% \\
\text { AVERAGE IMPACT } & \\
& \\
\text { DURATION : } & \\
\text { MAXIMUM IMPACT } & 12 \text { MONTHS } \\
\text { AVERAGE IMPACT } & 48 \text { MONTHS }
\end{array}
$$

TABLE $V-5$
POPULATION

＊＊＊Ayロnhins LJVdhI＊＊＊

> OIRECTION: (INCREASE, OECREASE, NO CHANGE)
PROBARILITY：（POSSIGLE，PROBABLE，DEEINITE）

$$
\begin{aligned}
& 1.93 \% \\
& .89 \% \\
& 12 \text { MONTHS } \\
& 48 \text { MONTHS }
\end{aligned}
$$

MAGNITUDE

AVXIMUM IMPACT
AVERAGE IMPACT DURATION：
MAXIMUM CITY：SEADRIFT
.47
1.93
1.13
.13
○ががN
0
3
12
7
1
$N \sim N M$
$\stackrel{\infty}{=}$
1500
，つ」APION


$$
\begin{array}{lr}
.19 & 5.4 \\
.25 & 18.5 \\
.25 & 10.2 \\
.25 & .4 \\
.06 & \\
\text { AVERAGE TIME- } & \\
\text { WEIGHTED NEW } & \\
\text { RESINENTS } & \\
\text { AVERAGE PERCENT } & \\
\text { CHANGE FROM } \\
\text { CURRENT POPULATION } & \\
\hline
\end{array}
$$

＊＊＊IMPACT SUMMARY＊＊＊
 PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE） $\qquad$
MAGNITUDE：
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION：
MAXIMUM IVPACT
AVERAGE IMPACT
かへ～のn
OMN゚ー・
TOTAL NEW
2.
22.
72.
41.
7.

| 9 |
| ---: |
| 12 |
| 12 |
| 12 |
| 3 |
| $-0-$ |
| 48 |
| $0.0-$ |
| 5900 |

TIME
PERIOD

[^3]\[

$$
\begin{gathered}
\text { * PERCENT CHANGE } \\
\text { * FROM CURRENT }
\end{gathered}
$$ * TIME-WEIGHTING $$
\begin{aligned}
& * \\
& *
\end{aligned}
$$ TIME-WEIGHTED
\]

$$
\begin{aligned}
& \text { FROM CURRENT } \\
& \text { * CITY POPULATION }
\end{aligned}
$$

---

$$
\begin{array}{r}
1.22 \% \\
.59 \%
\end{array}
$$

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TABLEE $V-5$
POPULATTON

＊＊＊IMPACT SUMMARY＊＊＊
DIRECTION：（TNCREASE，DECREASE，NO CHANGE）
PROBARILITY：（POSSIBLE，ORORABLE，DEEINITE）

$$
\begin{aligned}
& 1.16 \% \\
& .56 \% \\
& 12 \text { MONTHS } \\
& 49 \text { MONTHS }
\end{aligned}
$$

MAGNI MAXIMM IUPACT
MAXIM！IM
AVERAS
DURATTON：
MAXIMUM IUPACT
AVERAGE IUPACT
DURATTON：
MAXIMUM IUPACT
AVERAGE IUPACT
PERCENT CHANGE
$\begin{array}{ll}\text { MONTHS IN } & \text {＊TOTAL NEW } \\ \text { RESIDENT } & * \\ \text { TIME PERIOD } & \text {＊EMPLOYEES NEN }\end{array}$
のヘNロM 48
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$$
\text { (39N甘HJ ON • 3S甘38330 •3SV38JNI): NOI } 1 J 38 I O
$$


$1.44 \%$
$.68 \%$
1? MONTHS
48 MONTHS

MAGNITUDE:
$19 \forall d W I ~ 39 \forall \& \exists \wedge \forall$
DURATION:
IMPACT
IVPACT
AVERAGE

|  | * | TOTAL NEW | * |  | * | PERCENT CHANGE | * |  | * |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MONTHS IN | * | RESIDENT | * | TOTAL NEW | * | FROM CURRENT | * | TIME-WEIGHTING | * | TIME-NETGHTEO |
| IME PERIOD | * | EMPLOYEES | * | RESIDENTS | * | CITY POPULATION | * | FACTOR | * | NEW RESIDENTS |

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10
$$

$$
\begin{array}{r}
2 . \\
19 \\
65 \\
36 \\
7 .
\end{array}
$$

$$
\begin{array}{lr}
.19 & .4 \\
.25 & 4.7 \\
.25 & 16.2 \\
.25 & 9.0 \\
& \\
\text { AVERAGE TIME } & \\
\text { WEIGHTED NEW } & \\
\text { RESIOENTS } & \\
\text { AVERAGE PERCENT } & \\
\text { CHANGE FOOM } & \\
\text { CURRENT POPULATION } & .68
\end{array}
$$

.04
.42
1.44
.80
.16

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.16
(
CITY: PALACIOS

POPULATION

$$
* * * \text { IMPACT SUMMARY *** }
$$

＊RESIDENTS IN
FSRESIDENTS
＊COMMUTING RANGE

0
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0
0000 AVERAGE NEW COMMUTING RANGE
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onNonn
－OMN
TOTAL
TOTAL
ESIDENTS


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VERAGF NEW RESIDENTS IN
SCHOOL DISTRICT
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TABLE V－5B
POPULATION

VICTORIA CONS．ISD －－－－－－－－－
＊TOTAL NEW
TOTAL＊TOTAL＊TOTAL＊TOTAL＊TOTAL＊RESTALSENTC IN ＊CITY 00＊CITY 00＊CITY 00 ＊CITY 00 ＊CITY 00 ＊SCHOOL OISTRICT

| 0 | 0 | 29. |
| :--- | :--- | ---: |
| 0 | 0 | $235{ }^{\circ}$ |
| 0 | 0 | 228. |
| 0 | 0 | 467. |
| 0 | 0 | 86. |
| AVERAGE NEW |  |  |
| RESIDEMTS IN | 393 |  |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2. |
| 2 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22. |
| 3 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72. |
| 4 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41. |
| 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7. |
|  |  |  |  |  |  |  |  |  | AVE | N | 35 |

POPULATIOV

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TABLE V-5B
POPULATION

|  |  |  |  |  |  |  |  |  |  | PALACIOS ISD |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * TOTAL * TOTAL * TOTAL * TOTAL * TOTAL * TOTAL * TOTAL * TOTAL * TOTAL * TOTAL <br>  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2. |
| 2 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19. |
| 3 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65. |
| 4 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36. |
| 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7. |
|  |  |  |  |  |  |  |  |  | AVE RES SCH |  | 31 |

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O*
#
```

| 0 | 0 |
| :--- | :--- |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| AVERAGE NEW |  |
| RESIDENTS IN |  |
| IMPACT AREA |  |

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TIME
ONONN
TABLE V -5 C
POPULATION



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TABLE V-5D
POPULATION


DIRECTION : (SURPLUS, DEFICIT)
242697.
119536.

12 MONTHS
48 MONTHS

A
MAXIMUM IMPACT
AVERAGE IMPACT
DURATTON:
MAXIMUM IYPACT
AVERAGE IMPACT

*** IMPACT SUMMARY ***

OIRECTION : (INCREASE, DECREASE, 才O CHANGE)
PROBARILITY: (POSSIJLE, JRORABLE, DFFINITE)


OIIDATTON:

AXIMUM IUPACT
AVERAGE IMPACT
17 MONTHS
19 MONTHS
TABLE $V-7$
HOUSING UNITS
CITY VICTCRIA

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO GHANGE)
PROBADILITY: (POSSIBLE, DROBABLE, DEFINITE)



き ----------164. UNITS REQUIRED $\stackrel{\infty}{\rightrightarrows}$ MONTHS

## HOUSING UNITS



DIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBARILITY : (POSSIBLE, PRORABLE, DEFINITE)
MAGNITUDE :
MAXIMUM IMPACT $(A, B)$
AVERAGE IMPACT
$(A, B)$
DURATION:
MAXIMUM IMPACT
AVERAGE IMPACT
TABLE V-7
housing units

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO CHANGE.) PROBASILITY : (POSSIBLE, PROBABLE DEFINITE)

## MAGNI XIMUM IMPACT (A,B) <br> NUERAGE IMPACT $(A, B)$

DURATION:
MAXIMUM IMPACT
AVERAGE IMPACT
HOUSING UNITS

*** IMPACT SUMMARY ***

DIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBARILITY: (POSSIBLE, PRORABLE, DEFINITE) MAGNITUDE:
MAXIMUM IMPACT
AVERAGE IMPACT
(A,B)
(A,B)
OURATYON:
MAXIMUM IMPACT 17 MONTHS
48 MONTHS

MAXIMUM IMPACT

NNNNM: $\quad \infty$


UNITS REQUIRED
"


OMNNH
AVG NUMBER
OF HOUSING

[^4]$\begin{array}{llc} & * & \text { HOUSING } \\ \text { RESIDENT } & * & \text { UNITS } \\ \text { EMPLOYEES } & * & \text { REQUIRED }\end{array}$ 2

## SEADRIFT

TABLE $V-7$
HOUSING UNITS

|  |  |  |  |  | CITY EDNA |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { TIME } \\ \text { PERIOD } \end{gathered}$ |  | MONTHS IN TIME PERIOD | * RESIDENT <br> * EMPLOYEES | housing UNITS REQUIRED | $\begin{aligned} & * \quad \text { ADDITIONAL } \\ & * \quad \text { HOUSING } \\ & * \quad \text { DEMAND } \end{aligned}$ | * Local assessment of city <br> * CAPABILITY TO ABSORB ADDITIONAL <br> * demand for housing |
|  |  |  |  |  |  |  |
| $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ |  | $\begin{array}{r} 9 \\ 12 \\ 12 \\ 12 \\ 3 \end{array}$ | $\begin{array}{r} 1 \\ 9 \\ 30 \\ 17 \\ 3 \end{array}$ | $\begin{array}{r} 1 \\ 9 \\ 30 \\ 17 \\ 3 \end{array}$ |  |  |
|  | total MONTHS | $\text { is } 48$ | AVG NUMBER OF HOUSING UNITS REQUIRED | 14. |  |  |
| ```*** IMPACT SUMMARY DIRECTION : (INCREASE, DECREASE, NO CHANGE) PROBARILITY : (POSSIBLE, PROBABLE, DEFINITE) MAGNITUDE : MAXIMUM IMPACT (A,B) AVERAGE IMPACT (A,B)``` |  |  |  |  |  |  |
|  |  |  |  |  |  | DURATION :  <br> MAXIMUM IMPACT 12 MONTHS <br> AVERAGE IMPACT 48 MONTHS |

TABLE V-7
housing Units

|  |  | CITY |
| :--- | :--- | :--- |
| * ADDITIIONAL | * LOCAL ASSESSMENT OF CITY |  |
| * HOUSING | * CAPABILITY TO ABSORB ADDITIONAL |  |
| DEMAND | * DEMAND FOR HOUSING |  |

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBARILITY: (POSSISLE, PRORABLE, DEFINITE)
12 MONTHS
48 MONTHS
MAGNITUDE MAXIMUM
$\begin{array}{ll}\text { MAXIMUM IMPACT } & (A, B) \\ \text { AVERAGE IMPACT } & (A, B)\end{array}$
DURATION
MAXIMUM IMPACT
HOUSING
UNITS
REQUIRED
*
$\mathrm{col:l}_{0}$

TIME
PERIOD
$-N M \pm \backsim$
TABLE $\mathrm{V}-7$
HOUSING UNITS

*** IMPACT SUMMARY ***
direction : (Increase, decrease, no change)
PROBABILITY : (POSSIBLE, PROBABLE, DEFINITE)

## AGNITUDE : MMAM ( 4,8 ) <br> AVERAGE IMPACT (A,B)

DURATION:
$\begin{array}{ll}\text { MAXIMUM IMPACT } & 12 \text { MONTHS } \\ \text { AVERAGE IMPACT } & 48 \text { MONTHS }\end{array}$
Thele vor
EDUCATION SCHOOL DISTRICT AUSTWELL-TIVOLI SD
$\begin{array}{ll}\text { ADDITIONAL } & \text { * LOCAL ASSESSMENT OF SCHOOL } \\ \text { NEW } & \text { * DISTRICT CAPABILITY TO ABSORB }\end{array}$ - ADDITIONAL

CHECK ONE
A. CAN BE STUDENTS MAXIMUM NUMBER OF STUDENTS 0.:

DURATION 12 *- $*-\infty-\infty-\infty-\infty-\infty-\infty$
$\begin{array}{ll}\text { AVERAGE } & \text { * CHECK ONE } \\ \text { NUMBER OF } & \text { * A. CAN BE ABSORBED BY EXISTING } \\ \text { STUDENTS O. OR PLANNED FACILITIES }\end{array}$
DURATION 48 * OR PLANNED FACILITIES ON OF *
*** IMPACT SUMMARY *** DIRECTION : (INCREASE, DECREASE, NO CHANGE) PROBARILITY: (POSSIBLE, DROBABLE, DEFINITE) MAGNITUDE:

MAXIMUM IMPACT (A,B)
AVERAGE IMPACT ( $A, B$ )
AVERAGE
OURATION:

ooNNO AVG NUMBER
OF NEW
STUDENTS の $N \sim N$
$\begin{array}{ccccc} & * & \text { MONTHS IN } & * & \text { TOTAL } \\ \text { TIME * } & \text { TIME } & * & \text { NEWTIMATED } \\ \text { PERIOD } & * & \text { PERIOD } & * & \text { RESIDENTS }\end{array}$
$\begin{array}{ccccc} & * & \text { MONTHS IN } & * & \text { TOTAL } \\ \text { TIME * } & \text { TIME } & * & \text { NEWTIMATED } \\ \text { PERIOD } & * & \text { PERIOD } & * & \text { RESIDENTS }\end{array}$
$\underset{\sim}{n+1}$
$\cdots: \quad \infty$ $\stackrel{\infty}{7}$ TOTAL
MONTHS

## 12 MONTHS 48 MONTHS

## $13 \forall d n I$ $13 \forall d n I ~$

TABLE $V=8$
EDUCATION

*** LMPACT SUMMARY ***

DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIGLE, PRORABLE, DEFINITE) MAGNITUDE :

MAXIMUM IMPACT $(A, B)$
AVERAGE IYPACT
12 MONTHS

MAXIMUM IMPACT
AVERAGE IYPACT

## EDUCATION

TABLE V－B SCHOOL DISTRICT CALHOUN COUNTY ISD

＊＊＊IMPACT SUMMARY＊＊＊
OIRECTION ：（INCREASE，DECREASE，NO CHANGE）
PROBAGILITY：（POSSIBLE，DROBABLE，DEEINITE） MAGNITUDE ：
$\begin{array}{ll}\text { MAXIMUM IMPACT } & (A, B) \\ \text { AVERAGE IMPACT } & (A, B)\end{array}$
OURATION：
TABLE V-8
EDUCATION

*** IMPACT SUMVARY ***
DIRECTION: (INCREASE DECREASE, NO CHANGE)
PROBARILITY: (POSSIBLE, PROBABLE, DEFINITE)
MAGNITUDE:
$\begin{array}{ll}\text { MAXIMUM IUPACT } & (A, B) \\ \text { AVERAGE IMPACT } & (A, B)\end{array}$
OURATTON :
MAXIMUM
MAXIMUM IUPACT
12 MONTHS
48 MONTHS
ESTIMATED

$$
\begin{aligned}
& \text { NIJMBER OF } \\
& \text { NEW STUDENTS }
\end{aligned}
$$


*** IMPACT SUMMARY ***
OIRECTION: (INCREASE, DECREASE, VO CHANGF.)

PROBAGILITY: (POSSIBLE, DRORABLE, DEEINITE)

## MAGNITUDE :

$\begin{array}{ll}\text { YAXIMUM IMPACT } & (A, 8) \\ \text { AVERAGE IMPACT } & (A, B)\end{array}$
DURATION:
MAXIMUM
AVERAGE

[^5]\[

$$
\begin{aligned}
& \begin{array}{ccc}
0 \\
0 \\
0 & \infty & \infty \\
0
\end{array} \\
& \text {-1~N } \\
& \stackrel{\infty}{+}
\end{aligned}
$$
\]


*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, vo CHANGE)
PROBARILITY: (POSSIBLE, OROPABLE, DEFINITE)
$\begin{array}{ll}\text { NITUDE : } \\ \text { MAXIMUM IMPACT } & \\ \text { AVERAGE IMPACT } & (A, B)\end{array}$
12 MONTHS
49 MONTHS

DURATION MUM IMPACT
MAXIMUGE IMPACT
AVERAGE
TABLE V－ 9

$$
\begin{array}{lr} 
& 12 \\
& 12 \\
& 12 \\
& 3 \\
& \\
& \\
& \\
& \\
\text { TOTAL } \\
\text { MONTHS } & 48
\end{array}
$$

$$
\begin{array}{cc}
\text { TIME } & * \\
\text { PERIOD } & *
\end{array}
$$

|  |  | CITY ：AlSSTWELL |  |
| :---: | :---: | :---: | :---: |
|  |  | ＊ | CHAVGE IN |
| MONTHS IN | Change in | ＊ | NUMBER OF LAW |
| TIME PERIOD | CITY POPULATION | ＊ | ENFORCEMENT |

응ㅇㅇㅡ́ㅂ
－－－－－ AVERAGE NUMBER

OF NEW LAW
ENFORCEMENT
$00^{\circ}$ OIRECTION ：（INCREASE，DECREASE，NO CHANGE） PROBABILITY：（POSSIBLE，PROBABLE，DEFINITE）

MAGNITUOE：
MAXIMUM IMPACT
$\qquad$
$-$

DURATION ：
ENFORCEMENT
PERSONNEL NEEDED
$\begin{array}{ll}0 & \\ 0 & \\ 2 & \\ 2 & \\ 0 & \end{array}$
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1
2
3
4
5

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0
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\begin{aligned}
& \text { UHAVGE IN } \\
& \text { ENBER OF LAR } \\
& \text { PNERSMENT } \\
& \text { PERSNNEL }
\end{aligned}
$$

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－ ABER
CITY：AllSTWELL
$\square$

$$
\begin{aligned}
& \text { PERSONNEL }
\end{aligned}
$$

＊＊＊IMPACT SUMMARY＊＊＊

SUMMARY *oura

$$
\begin{aligned}
& \text { MAXIMUM IMPACT } \\
& \text { AVERAGE IMPACT }
\end{aligned}
$$

.00
.00

0 MONTHS
48 MONTHS
48 MONTHS
TABLE V - 9
LAW ENFORCEMENT PERSONNEL

|  |  |  |  |  | CITY: VICTORIA |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | * |  | * |  | * | CHANGE IN |
| TIME | * | MONTHS IN | * | CHANGE IN | * | NUMBER OF LAW |
| PERIOO | * | TIME PERIOD | * | CITY POPULATION | * | ENFORCEMENT |
|  | * |  | * |  | * | PERSONNEL |

.03
.26
.93
.52
.10
$--=-\infty$
AVERAGE NUMBER
OF NEW LAW
.44

AVERA
PERSONNEL NEEDED
*** IMPACT SUMMARY ***
DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
.93
.44
12 MONTHS
48 MONTHS
MAGNITUDE:
MAXIMIJ IMPACT
AVERAGE IMPACT
DURATION:
MAXIMUM INPACT
anNNM! an m
TOTAL
MONTHS
$\rightarrow N M \pm!$
DIRECTION: (INCPEASE, DECREASE, NO CHANGE)
PPOBARILITY: (POSSIBLE, DROBABLE, DEFINITE)

$$
\begin{aligned}
& .51 \\
& .24 \\
& 12 \text { MONTHS } \\
& 49 \text { MONTHS }
\end{aligned}
$$

MAGNIMIJM IMPACT
MAXIVIY IVPACT
AVERAGE IMPACT
DURATTON:
MAXIMUM IMPACT
AVERACE IMPACT
M
AAGNITUDE:

AVERAGE IMPACT
DIRATTON :
MAXIMUY IMPACT
AVERACE IMPACT
AVERAGE IMPACT
DIRATTON :
MAXIMUY IMPACT
AVERACE IMPACT

ONONOM
48

MONTHS
1
1
$1 ?$
$-\infty$

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\begin{array}{ccc}
\text { Nan } \\
0 & \text { in } \\
0
\end{array}
\]
```


AVERAGE NUMBER
CF NEW LAW
PERSONNEL NEEDED
MONTHS IN
TIME PERIOD
CHANGE IN
CITY POPULATION
FNFORCEMENT
PERSONNEL
TIME *
PERIOD *

- $-\infty=-$
0
1
2
3
4
5
TABLE V-9
LAW ENFORCEMENT PERSONNEL CITY : POINT COMFRT

|  | $*$ | $*$ | CHANGE IN | $*$ | CHANGE IN |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TIME | $*$ | MONTHS IN | $*$ | CHMER OF LAW |  |  |
| PERIOD | $*$ | TIME PERIOD | $*$ | CITY POPULATION | $*$ | ENFORCEMENT |

$\begin{array}{r}.00 \\ .01 \\ .05 \\ .03 \\ .00 \\ \hline-0-2\end{array}$
$20^{\circ}$
*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO CHANGE) PROBARILITY: (POSSIBLE, DROBABLE, DEFINITE)
.05
.02

[^6]IXXIMUM IMPACT
AVERAGE IMPACT
OURATION IMUM IMPACT
AVERAGE IMPACT
0
10
34
19
2 AVERAGE NUMBER
OF NEW LAW
ENFORCEMENT
PERSONNEL NEEDED
のNNNM:
TOTAL
MONTHS
TIME
PERIOD
1
2
3
4
5
7ヨNNOSYヨd 1 NJW3コyOgNJ MV7

＊＊＊IMPACT SUMMARY＊＊＊
OIRECTION ：（INCREASE，DECREASE，NO CHANGE）
PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE）
MAGNITUDE ：
MAXIMUM IMPACT
AVERAGE IMPACT
OURATION：
MAXIMUM IMPACT
AVERAGE IMPACT ＊＊＊IMPACT SUMMARY＊＊＊
OIRECTION：（INCREASE，DECREASE，NO CHANGE）
PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE）
MAGNITUDE ：
MAXIMUM IMPACT
AVERAGE IMPACT
OURATION：
MAXIMUM IMPACT
AVERAGE IMPACT ＊＊＊IMPACT SUMMARY＊＊＊
OIRECTION：（INCREASE，DECREASE，NO CHANGE）
PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE）
MAGNITUDE ：
MAXIMUM IMPACT
AVERAGE IMPACT
OURATION：
MAXIMUM IMPACT
AVERAGE IMPACT
MAGNITUDE：MAXIMUM IMPACT ＊＊＊IMPACT SUMMARY＊＊＊
OIRECTION：（INCREASE，DECREASE，NO CHANGE）
PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE）
MAGNITUDE ：
MAXIMUM IMPACT
AVERAGE IMPACT
OURATION：
MAXIMUM IMPACT
AVERAGE IMPACT
\[

$$
\begin{aligned}
& .04 \\
& .02
\end{aligned}
$$
\]

$$
\begin{aligned}
& 12 \text { MONTHS } \\
& 48 \text { MONTHS }
\end{aligned}
$$ ＊＊＊IMPACT SUMMARY＊＊＊

OIRECTION：（INCREASE，DECREASE，NO CHANGE）
PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE）
MAGNITUDE ：
MAXIMUM IMPACT
AVERAGE IMPACT
OURATION：
MAXIMUM IMPACT
AVERAGE IMPACT ＊＊＊IMPACT SUMMARY＊＊＊
OIRECTION：（INCREASE，DECREASE，NO CHANGE）
PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE）
MAGNITUDE ：
MAXIMUM IMPACT
AVERAGE IMPACT
OURATION：
MAXIMUM IMPACT
AVERAGE IMPACT



の～NNM
48
TOTAL
MONTHS
PERIOD
TABLE $V-9$

$$
\begin{aligned}
& \text { AVERAGE NUM } \\
& \text { OF NEW LAW }
\end{aligned}
$$

PERSONNEL N
table v-
Law enforcement personnel.

dIRECTION : (INCREASE, dECREASE, NO CHANGE) PROBABILITY: (POSSIBLE, DROBABLE, DEFINITE)
.07
.04
12 MONTHS
48 MONTHS

MAGNITUDE :
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION:
MAXIMUM IMPACT
AVERAGE IMPACT AVERAGE NUMBER
OF NEW LAW
ENFORCEMENT
PERSONNEL NEEDED
.01 ＊＊＊IMPACT SUMMARY＊＊＊
DIRECTION ：（INCREASE，DECREASE，NO CHANGE） ＊＊＊IMPACT SUMMARY＊＊＊
DIRECTION ：（INCREASE，DECREASE，NO CHANGE）
PROBABILITY：（POSSIBLE，PROBABLE，DEFINITE）
MAGNITUDE ：IMPACT
VITUDE ：
MAXIMUM
AVERAGE
TION ：
MAXIMUM IMPACT
AVERAGE IMPACT

CHANGE IN
NUMBER OF LA
ENFORCEMENT
PERSONNEL
CITY：GANADO

|  | ＊ |  | ＊ |  |  | CHANGE IN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TIME | ＊ | MONTHS IN | ＊ | CHANGE IN | ＊ | NUMBER OF LAW |
| PERIOD | ＊ | TIME PERIOD | ＊ | CITY POPULATION | ＊ | ENFORCEMENT |
|  |  |  |  |  |  | PERSONNEL |

aNNNM
48
$\cdots N M$
PERSONNEL NEEDEO $\infty-\infty$
－
.01
12 MONTHS
48 MONTHS
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION：
MAXIMUM IMPACT $\square$
73NNOS甘ヨd 1N3WヨコンO』Nヨ MV7
TABLE V－9
LAW ENFORCEMENT PERSONNEL

| TIME PERIOD | ＊ |  | ＊ |  |  | CHANGE IN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ＊ | MONTHS IN | ＊ | Change in | ＊ | NUMBER OF LAW |
|  | ＊ | TIME PERIOD | ＊ | CITY POPULATION | ＊ | ENFORCEMENT |
|  | ＊ |  |  |  |  | PERSONNEL |

$\begin{array}{r}.00 \\ .02 \\ .07 \\ .04 \\ .01 \\ \hline----\end{array}$
.03
Nonnor AVERAGE NUMBER
OF NEW LAW
ENFORCEMENT
PERSONNEL NEEDED
＊＊＊IMPACT SUMMARY＊＊＊
DIRECTION ：（INCREASE，DECREASE，NO CYANGE） PROBABILITY ：（POSSIBLE，PROBABLE，DEFINITE） .07
12 MONTHS
48 MONTHS MAGNITUDE ：
MAXIMUM IMPACT AVERAGE IMPACT
OURATION：
MAXIMUM IMPACT
の～NNM：
TOTAL
MONTHS
TIME
PERIOD
ーNMコレー

|  |  |  |  |  | CITY: AUSTWELL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | * |  | * |  | * | CHANGE IN |
| TIME | * | MONTHS IN | * | CHANGE IN | * | NUMBER OF FIRE |
| PERIOD | * | TIME PERIOD | * | CITY POPULATION | * | PROTECTION |
|  | * |  | * |  | * | PERSONNEL |

```
.00V 
```

AVERAGE NUMBER OF NEW FIRE
PERSONNEL NEEDED *** IMPACT SUMMARY ***
DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE) *** IMPACT SUMMARY ***
DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBARILITY: (POSSIBLE, PROBABLE, DEFINITE) *** IMPACT SUMMARY ***
DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE) MAGNITUDE:
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION:
MAXIMUM IMPACT
AVERAGE IMPACT

$$
\begin{array}{rr}
9 \\
& 12 \\
& 12 \\
12 \\
& 3 \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
&
\end{array}
$$

## $\Rightarrow N M \pm$ in

0
0
2
2
0 OF NEW FIRE, 74 V MAGNITUDE:

$$
\begin{aligned}
& 1.47 \mathrm{~V} \\
& .74 \mathrm{~V} \\
& 12 \text { MONTHS } \\
& 48 \text { MONTHS }
\end{aligned}
$$

-0-0-0-0

$0 \tau-\wedge 378 \vee 1$
TABLE $V-10$
FIRE PROTECTION PERSONNEL

|  |  |  |  |  | CITY: VICTORIA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | * |  | * |  | * | CHANGE |  |
| TIME | * | MONTHC IN | * | CHANGE IN | * | NUMBER OF | FIRE |
| PERIOD | * | TIME PERIOO | * | CITY POPULATION | * | PROTECTI |  |
|  | * |  | * |  | * | PERSONN | NEL |

$-\infty$ IN
MBER OF FIRE
PROTECTION
PERSONNEL
MMMNO
$0 N \infty=0$ OF NEW FIRE
PERSONNEL NEEJEO
$\underset{\sim}{\sim}$
average number
NNNM, minn m
TOTAL
40NTHS
TIME
PERIOD
1
2
3
4
5
$\begin{array}{ccc}\text { MONTHG IN } & \text { * CHANGE IN } \\ \text { TIME PERIOO } & * \\ & *\end{array}$ $\qquad$路
** IAPACT SUMMARY ***
OIRECTION : IINCREASE, DECREASE, MO CHANGE)
*** IHPACT SUMMARY ***
OIRECTION : (INCREASE, DECREASE, NO CHANGE) PROBARILITY: (POSSIBLE, DROBABLE, DEFINITE)

[^7]
84
299
170
-AVERAGE NUMBER
OF NEW FIRE
PERSONNEL NEEDED

```
#NONMM
```

*** IMPACT SUMMARY ***

DIRECTION : (INCREASE, DECREASE, NO CHANGE)

PROBARILITY: (POSSIBLE, PROBABLE, DEFINITE)

.26
.12

.26
.12

.26
.12

.26
.12

.26
.12

.26
.12     12 MONTHS
48 MONTHS     12 MONTHS
48 MONTHS     12 MONTHS
48 MONTHS     12 MONTHS
48 MONTHS     12 MONTHS
48 MONTHS     12 MONTHS
48 MONTHS

MAGNITUDE :

MAGNITUDE :

MAGNITUDE :

MAGNITUDE :

MAGNITUDE :

MAGNITUDE :
MAXIMUM IMPACT
MAXIMUM IMPACT
MAXIMUM IMPACT
MAXIMUM IMPACT
MAXIMUM IMPACT
MAXIMUM IMPACT   DURATION:   DURATION:   DURATION:   DURATION:   DURATION:   DURATION: .....  .....  ..... MAXIMUM IMPACT
AVERAGE IMPACT .....  .....  ..... MAXIMUM IMPACT
AVERAGE IMPACT .....  .....  ..... MAXIMUM IMPACT
AVERAGE IMPACT .....  .....  ..... MAXIMUM IMPACT
AVERAGE IMPACT .....  .....  ..... MAXIMUM IMPACT
AVERAGE IMPACT .....  .....  ..... MAXIMUM IMPACT
AVERAGE IMPACT

.12

.12

.12

.12

.12

.12
*** IMPACT SUMMARY ***
*** IMPACT SUMMARY ***
*** IMPACT SUMMARY ***
*** IMPACT SUMMARY ***
*** IMPACT SUMMARY ***
*** IMPACT SUMMARY ***  DIRECTION: (INCREASE, DECREASE, NO CHANGE)  DIRECTION: (INCREASE, DECREASE, NO CHANGE)  DIRECTION: (INCREASE, DECREASE, NO CHANGE)  DIRECTION: (INCREASE, DECREASE, NO CHANGE)  DIRECTION: (INCREASE, DECREASE, NO CHANGE)  DIRECTION: (INCREASE, DECREASE, NO CHANGE)  PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)  PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)  PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)  PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)  PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)  PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE) .....  ..... DURA .....  ..... DURA .....  ..... DURA .....  ..... DURA .....  ..... DURA .....  ..... DURA
AVERAGE IMPACT
AVERAGE IMPACT
AVERAGE IMPACT
AVERAGE IMPACT
AVERAGE IMPACT
AVERAGE IMPACT
.01
.07
.26
.15
.03
$-.-\infty-\infty$ ..... 12 ..... 12 ..... 12 ..... 12 ..... 12 ..... 12PERSONNEL NEEDED
ONNON ..... 48
TOTAL
MONTHSMONTHS IN
TIME PERIOD
HNMEN
TIME
PERIOD$+$$--\infty-\infty-\infty-\infty-\infty-\infty-\infty+\infty+\infty$,
TABLE V-10
FIRE PROTECTION PERSONNEL

*** IMPACT SUMMARY ***
OIRECTION : (INCREASE, OECREASE, NO CHANGE)
PROBARILITY : (POSSIBLE, ORORABLE, DEFINITE)

$$
\begin{aligned}
& .70 \mathrm{v} \\
& .33 \mathrm{v}
\end{aligned}
$$

12 MONTHS
MAGNITUDE :
MAXIMUM IMPACT
AVERAGE IMPACT
OURAT ION :
MAXIMUM IMPACT
AVERAGE IUPACT
$\begin{array}{r}9 \\ 12 \\ 12 \\ 12 \\ 3 \\ \hline\end{array}$
48
TOTAL
MONTHS
PERI


$$
\begin{array}{rcr}
9 & 0 & .00 \mathrm{~V} \\
12 & 7 & .20 \mathrm{~V} \\
12 & 29 & .81 \mathrm{~V} \\
12 & 17 & .48 \mathrm{~V} \\
3 & 2 & .06 \mathrm{~V} \\
-\infty & & \\
& & \\
& \text { AVERAGE NUMBER } & \\
48 & \text { OF NEW FIRE } & \\
& \text { PERSONNEL NEEDED } & .37 \mathrm{~V}
\end{array}
$$

*** IMPACT SUMMARY ***
OIRECTION : (INCREASE, DECREASE, NO CHANGE)

$$
\begin{aligned}
& .31 \mathrm{~V} \\
& .37 \mathrm{~V} \\
& 12 \text { MONTHS } \\
& 43 \text { MONTHS }
\end{aligned}
$$

MAXIMUM IMPACT AVERAGE IMPACT ..... MAXIMUM IMPACT
AVERAGE IMPACT
12 MONTHS
43 MONTHS

[^8]
## PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE) MAGNITUDE : <br> PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)

TABLE V－10
FIRE PROTECTION PERSONNEL

.01 V
.09 V
.31 V
.17 V
.03 V
.15 V
＊＊＊IMPACT SUYMARY＊＊＊ oIRECTION ：（INCREASE，DECREASE，NO CHANGE） PROBARILITY：（POSSIBLE，PROBABLE，DEEINITE）

$$
\begin{aligned}
& .31 \mathrm{~V} \\
& .15 \mathrm{~V} \\
& 12 \text { MONTHS } \\
& 43 \text { MOVTHS }
\end{aligned}
$$

のペ～～ロ！ 49
2
22
72
41
7
OF NEW FIRE
PERSONNEL NEEDED

[^9]TOTAL
MONTHS
$\rightarrow N M \pm ロ$
PERIOD


|  | $*$ |  | $*$ | $*$ | CHANGE IN |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TIME | $*$ | MONTHS IN | $*$ | CHANGE IN | $*$ | NUMBER OF FIRE |
| PERIOD | $*$ | TIME PERIOD | $*$ | CITY POPULATION | $*$ | PROTECTION |
|  | $*$ |  | $*$ |  | $*$ | PERSONNEL |

$$
\begin{array}{lrlr}
1 & 9 & 0 & .00 \mathrm{~V} \\
2 & 12 & 5 & .10 \mathrm{~V} \\
3 & 12 & 19 & .37 \mathrm{~V} \\
4 & 12 & 12 & .23 \mathrm{~V} \\
5 & 3 & 2 & .04 \mathrm{~V} \\
& & & \\
& & & \\
& & \text { AVERAGE NUMBER } & \\
& & \text { OF NEW FIRE } \\
\text { TOTAL } & & \text { PERSONNEL NEEDED } & .18 \mathrm{~V}
\end{array}
$$ *** IMPACT SUMMARY ***

OIRECTION : (INCREASE, DECREASE, NO CHANGE) *** IMPACT SUMMARY ***
OIRECTION : (INCREASE, DECREASE, NO CHANGE) PROBABILITY : (POSSIBLE, PROBABLE, DEFINITE)

$$
\begin{aligned}
& .37 \mathrm{~V} \\
& .18 \mathrm{~V}
\end{aligned}
$$

[^10]MAXIMUM IMPACT
AVERAGE IMPACT
DURATION:
ATION :
MAXIMUM
AVERAGE
AVERAGE IMPACT
TABLE $V-10$
FIRE PROTECTION PERSONNEL

| PALACIOS |
| :--- |
| HANGE IN |
| ER OF FIRE |
| OTECTION |
| ERSONNEL |
| .02 V |
| .17 V |
| .58 V |
| .32 V |
| .06 V |
| $-\infty$ |

AVERAGE NUMBER PERSONNEL NEEDED




## SHINOW

$\begin{array}{lc}\text { MAXIMUM IMPACT } & .58 \mathrm{~V} \\ \text { AVERAGE IMPACT } & .27 \mathrm{~V} \\ \text { DURATION: } & \\ \text { MAXIMUM IMPACT } & 12 \text { MONTHS } \\ \text { AVERAGE IMPACT } & 48 \text { MONTHS }\end{array}$
$\begin{array}{cc}\text { MAXIMUM IMPACT } & .58 \mathrm{~V} \\ \text { AVERAGE IMPACT } & .27 \mathrm{~V} \\ \text { DURATION: } & \\ \text { MAXIMUM IMPACT } & 12 \text { MONTHS } \\ \text { AVERAGE IMPACT } & 48 \text { MONTHS }\end{array}$ MAGNITUDE :
MAXIMUM
$\begin{array}{lc}\text { MAXIMUM IMPACT } & .58 \mathrm{~V} \\ \text { AVERAGE IMPACT } & .27 \mathrm{~V} \\ \text { DURATION: } & \\ \text { MAXIMUM IMPACT } & 12 \text { MONTHS } \\ \text { AVERAGE IMPACT } & 48 \text { MONTHS }\end{array}$
$\begin{array}{cc}\text { MAXIMUM IMPACT } & .58 \mathrm{~V} \\ \text { AVERAGE IMPACT } & .27 \mathrm{~V} \\ \text { DURATION: } & \\ \text { MAXIMUM IMPACT } & 12 \text { MONTHS } \\ \text { AVERAGE IMPACT } & 48 \text { MONTHS }\end{array}$
$\begin{array}{ll}\text { MAXIMUM IMPACT } & .58 \mathrm{~V} \\ \text { AVERAGE IMPACT } & .27 \mathrm{~V} \\ & \\ \text { DURATION : } & \\ \text { MAXIMUM IMPACT } & 12 \text { MONTHS } \\ \text { AVERAGE IMPACT } & 48 \text { MONTHS }\end{array}$
Nan m
nom
$.27 V$
MAGNITUDE
HEALTH CARE FACILITIES

|  | COMMUTING RANGE |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $*$ |  | $*$ |  |
| MONTHS IN | $*$ | CHANGE IN | $*$ | CHANGE IN |
| TIME PERIOD | $*$ | IMPACTAREA | $*$ | NUMBER OF |
|  | $*$ | POPULATION | $*$ | HOSPITAL BEDS |

$\begin{array}{r}9 \\ 12 \\ 12 \\ 12 \\ 3 \\ \hline\end{array}$
48

AVERAGE NUMBER OF

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO CHANGE)
$\begin{array}{cc} \\ \text { TIME } & * \\ \text { PERIOD } & *\end{array}$

NEW HOSPITAL
BEDS NEEDED
3.97
48
TOTAL
MONTHS
1
2
3
4
5

PROBARILITY: (POSSIBLE, PROBABLE, DEFINITE)
8.36

12 MONTHS
48 MONTHS

MAGNITUDE:
MAXIMUM
MAXIMUM IMPACT
AVERAGE IMPACT
AVERAGE IMPACT
DURATION:
MAXIMUM IMPACT
AVERAGE IMPACT

TABLE V-12
HEALTH CARE PERSONNEL

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
1.03
.49

12 MONTHS MAGNITUDE :
MAXIMUM MAXIMUM IMPACT
AVERAGE IMPACT AVERAGE IMPACT
DURATION :
MAXIMUM IMPACT
AVERAGE IMPACT

$$
\begin{array}{r}
.00 \\
.00 \\
.07 \\
.07 \\
.00 \\
-\infty .53 \\
73.50 \\
-\infty .00
\end{array}
$$


TABLE V-13
WATER SUPPLY
CITY: VICTORIA


[^11]29
235
828
467
86
5493.84
44519.07
156858.69
88469.82
16292.09
NEW DEMAND FOR
IN GALLONS PER DAY
AVERAGE NEW
AVERAGE PERC
UTILIZED BY

$\begin{array}{ccccc} & \text { * } \\ \text { TIME } & \text { * MONTHS IN } & * & \text { CHANGE IN } \\ \text { PERIOD } & * & \text { TIME PERIOD } & * & \text { CITY POPULATION }\end{array}$


$$
\begin{aligned}
& \text { RESERVE PRODUCTION CAPACITY } \\
& \text { UTILIZED BY NEW DEMAND }
\end{aligned}
$$

$$
\begin{aligned}
& \text { FOR } \\
& E R O A Y
\end{aligned}
$$

$$
\begin{aligned}
& \text { ENT } \\
& C I T Y
\end{aligned}
$$

$$
\begin{array}{r}
1.62 \\
13.51 \\
48.45 \\
27.55 \\
5.72 \\
\hline
\end{array}
$$

$$
\begin{aligned}
& 57550.82 \\
& -\infty=-\infty=0
\end{aligned}
$$

$$
23.02
$$

*** IMPACT SUMMARY ***

DIRECTION : (INCREASE, DECREASE, NO CHANGE)
TABLE V-13
WATER SUPPLY

\% OF CURRENT RESERVE
PRODUCTION CAPACITY
UTILIZED BY NEW DEMAND


[^12]| TIME MONTHS IN |  |  |
| :--- | :--- | :--- |
| PERIOD | $*$ | $*$ |

7
29
17
2
NEW DEMAND FOR
WATER
IN GALLONS
8200
3422.00
2006.00
236.00
AVERA
WATER
average percent of current
RESERVE PRODUCTION CAPA
UTILIZED BY NEW DEMAND

$$
\operatorname{sen} \sin F
$$

MAGNITUDE :
AVAXIMUM IMPACT
DIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBABILITY : (POSSIBLE. PROBABLE, DEFINITE
114.07\%
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION :
48 MONTHS
TABLE V-13
WATER SUPPLY


[^13]WATER SUPPLY

TABLE V-13
WATER SUPPLY


*** IMPACT SUMMARY ***
DIRECTION: (INCREASE. DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
\[

$$
\begin{aligned}
& .21 \% \\
& .11 \% \\
& 12 \text { MONTHS } \\
& 48 \text { MONTHS }
\end{aligned}
$$
\]

[^14]
## WASTEWATER TREATMENT AND DISPOSAL

93000 .
IN GALLONS PER DAY
TABLE $V=14$
CITY : VICTORIA

*** I MPACT SUMMARY ***
DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBARILITY: (POSSIBLE, PROBABLE, DEFINITE)
$.00 \%$ NO RESERVE CAPACT
$.00 刃$ NO RESERVE CAPACT

[^15]OURATION :
MAXIMUM IMPACT
AVERAGE IMPACT
MAGNITUDE: $\quad$ MAXIMUM IMPACT
AVERAGE IMPACT
WASTEWATER TREATMENT ANO DISPOSAL
0.
ONNNM
\[

$$
\begin{aligned}
& \text { TOTAL } \\
& \text { MONTHS }
\end{aligned}
$$
\]

CURRENT RESERVE
TREATMENT CAPACITY
IN GALLONS PER DAY

TABLE V-14
WASTEWATER TREATMENT AND DISPOSAL

*** IMPACT SUMMARY ***
DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBARILITY: (POSSIBLE, PROBABLE, DEFINITE)
$16.41 \%$
$7.66 \%$
12 MONTHS
MAGNITUDE :
MAXIMUM IMPACT
AVERAGE IMPACT
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION:

* OF CURRENT RESERVE
UTILIZED BY NEW DEMAND


## WASTEWATER TREATMENT AND DISPOSAL


*** IMPACT SUMWARY ***
direction : (increase, decrease, no change)
probability : (possible, probable, definite)

$$
\begin{array}{r}
.418 \\
.198
\end{array}
$$

12 MONTHS
49 MONTHS

AVERAGE
MAXIMUM IMPACT
AVERAGE IMPACT
TABLE V-14
WASTEWATER TREATMENT AND DISPOSAL



$$
\begin{aligned}
& \text { EW DEMAND FOR } \\
& \text { TER TREATMENT } \\
& \text { GALLONS PER DA } \\
& .00 \\
& 768.29 \\
& 2919.51 \\
& 1843.90 \\
& 307.32
\end{aligned}
$$

$$
\forall M 3 I S \forall M
$$

$$
\begin{aligned}
& \text { ヨ9४४ } 3 \wedge \forall
\end{aligned}
$$

$$
\begin{aligned}
& \text { WAS } \\
& \text { IN } \\
& \text { AVE } \\
& \text { RES } \\
& \text { UTI }
\end{aligned}
$$

$$
\begin{aligned}
& \text { RESERVE TREATMENT CAPACITY } \\
& \text { UTILIZED BY NEW DEMAND }
\end{aligned}
$$

$$
0 \ln \pi N
$$

ganado
TABLE V-14
WASTEWATER TREATMENT AND DISPOSAL
DIRECTION : (INCREASE. DECREASE. NO CHANGE)
PROBARILITY: (POSSIBLE, PROBABLE, DEFINITE)

MAXIMUM IMPACT
AVERAGE IMPACT
MAXIMUM IMPACT
AVERAGE IMPACT
DURATTON :
M
OURA

[^16] - average impact
NEW DEMAND FOR
\[

$$
\begin{array}{r}
1984.44 \\
6788.89 \\
3760.00 \\
731.11
\end{array}
$$
\]

AVERAGE NEW DEMAND FOR
WASTEWATER TREATMENT
3218.19
$19 *$
RESERVE TREATMENT CAPACITY
UTILIZED BY NEW DEMAND
CITY: PALACIOS

*** IMPACT SUMMARY ***
 530000.
IN GALLONS PER DAY


```
.00
                            avERAGE
```

NEW DEMAND FOR
IN TONS PER DAY
TABLE V-15


$$
\begin{aligned}
& \text { TOTAL } \\
& \text { MONTHS }
\end{aligned}
$$

$$
\begin{array}{r}
10 \\
84 \\
299 \\
170 \\
31
\end{array}
$$

```
%}\begin{array}{r}{.10}\\{.80}\\{2.85}\\{1.52}\\{.30}\\{-.0-0}
```

*** IMPACT SUMMARY ***
$\qquad$
$-\infty-\infty-\infty-\infty-\infty-\infty-\infty$

$$
\begin{aligned}
& \text { OLID WASTE DISPOSAL } \\
& \text { IN TONS PER DAY }
\end{aligned}
$$SOLID TONS PER DAY

IN T

$$
.02
$$

.19
.68
.39
.07

$$
.07
$$




$$
\begin{aligned}
& \text { AVERAGE \% INCREASE IN } \\
& \text { SOLID WASTE DISPOSAL }
\end{aligned}
$$

DIRECTION: (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
MAGNITUDE
MAXIMUM IMPACT
AVERAGE IMPACT

$$
\begin{aligned}
& \text { MAXIMUM IMPACT } \\
& \text { AVERAGE IMPACT }
\end{aligned}
$$

[^17]$$
a \mathbb{N} N
$$
$$
48
$$
TABLE V-15

## SOLID WASTE DISPOSAL

CITY: POINT COMFRT


## *** IMPACT SUMMARY ***

dIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
MAXIMUM IMPACT
12vdhi ヨ2vyヨay
DURATION :
MAXIMUM IMPACT
12 MONTHS
48 MONTHS
AVERAGE IMPACT

TABLE V-15
CITY : EDNA
SOLID WASTE DISPOSAL

\% INCREASE IN
SOLID WASTE DISPOSAL

> SAL

IN TONS PER DAY
.00
.30
1.16
.73
.12
*** IMPACT SUMMARY ***

PROBABILITY : (POSSIGLE, PROBABLE, DEFINITE)
$1.16 \%$
$.56 \%$
12 MONTHS
48 MONTHS

.00
.00
.00
.00
.00
AVERAGE \% INCREASE IN
.56

SOLID WASTE DISPOSAL 48

TOTAL
Yourths

```
\(\ln \underset{\sim}{n} N\)
```






TABLE V-15

## SOLID WASTE DISPOSAL



|  | $\begin{gathered} \text { MOS. * } \\ \text { IV * } \\ \text { TIME } \\ \text { PER. } \\ \text { * } \end{gathered}$ | $\begin{gathered} \text { NO. OF } \\ \text { WORKDAYS } \\ \text { IN } \\ \text { TIME } \\ \text { PERIOD } \end{gathered}$ | * LOADED <br> * TRUCk TRIPS <br> * NOT <br> * NEEDING <br> * PERMIT | * LOADED <br> * TRUCK <br> * TRIPS <br> * NEEDING <br> * PERMIT | * NO. OF <br> * TRUCK <br> - TPIPS <br> * IN TIME <br> * PERIOD | AVG. NO. OF TRUCK TRIPS PER. WORKDAY | * NO. OF NEW <br> * RES. WRKRS <br> * IN CITY <br> * AT TERM <br> * OF RD SEG. | * AVG. NO. <br> * OF WRKR <br> * auto <br> * TRIPS <br> * PER DAy | * NEW <br> * AVG. <br> * DAILY <br> * TRAFF <br> * COUNT | $\begin{aligned} & \text { * CHG * TIME * } \\ & \text { * IN AVG * WGHT- * } \\ & \text { * DAILY * ING * } \\ & \text { * TRAFF. * FAC } \\ & \text { * COUNT * TOR * } \end{aligned}$ | ```TIME-WGHTED NEW AVG. DAILY TRAFFIC COUNT``` |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ | 9 12 12 12 3 | 180 240 240 240 60 | 0 3454 617 96 0 | 0 0 0 0 0 | 0 6908 1234 192 0 | 0. 29. 5. 1. 0. 0. | 0 7 31 19 2 | $\begin{aligned} & 0 . \\ & 14{ }^{\circ} \\ & 62 . \\ & 38 . \\ & 4 . \end{aligned}$ | $\begin{aligned} & 1150^{\circ} \\ & 1193^{\circ} \\ & 1217^{\circ} \\ & 1189^{\circ} \\ & 1150^{\circ} \end{aligned}$ | .00 .19 <br> 3.72 .25 <br> 5.84 .25 <br> 3.37 .25 <br> .35 .06 | $\begin{aligned} & 216 . \\ & 298 . \\ & 304 . \\ & 297 . \\ & 72 . \end{aligned}$ |
| $\begin{aligned} & \text { TOTAL } \\ & \text { MOVFMS } \end{aligned}$ | -48 |  |  |  |  |  |  |  |  | AVERAGE <br> TRAFFIC COUNT FOR DURATION OF PROJECT | 1187.43 |
|  |  |  |  |  |  |  |  |  |  | avg. \% Change IN aVERAGE DAILY TRAFFIC COUNT | $3 \cdot 3$ |

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, VO CHANGE)
PROBARILITY : (POSSIBLE, PROBABLE, DEFINITE)
$5.84 \%$
$3.25 \%$
12 MONTHS
48 MOVTHS
MAGNITUDE :
MAXIMUM IMPACT
AVERAGE IMPACT
DURATION:
YAXIMUM IMPACT
AVERAGE IMPACT

*** IMPACT SUMMARY ***
DIRECTION : (INCREASE, DECREASE, NO CHANGE)
PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
$382.88 \%$
$221.52 \%$
12 MONTHS
48 MONTHS
MAGNITUDE :
MAXIMUM IMPACT
AVERAGE IMPACT
OURATION: MAXIMUM IMPACT

TABLE V-16A

DIRECTION : (INCREASE, DECREASE, NO CHANGE) PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
13.98\%
12.35\%

12 MONTHS
48 MONTHS

## MAGNITUDE : <br>  <br> DURATION:

TRAFFIC COUNT
HEAVY TRUCK MIX ( $\%$ OF TOTAL TRAFFIC)

*** IMPACT SUMMARY ***
DIRECTION : (INCPEASE, DECREASE, NO CHANGE)
PROBARILITY: (POSSIGLE, PRORABLE, DEFINITE)

[^18] 6821 Wa $\quad$ N3W93s 0ुO8
TABLE V－15A


ROAD SEGMENT SH 238

| $\begin{aligned} & \text { TIME } \\ & \text { PERIOD } \end{aligned}$ | ＊ | HONTHS IN | ＊ | AVG．NO．OF TRUCK TRIPS PER WORKDAY DURING TIME PERIOD | ＊ | $\begin{aligned} & \text { NEW } \\ & \text { HEAVY } \end{aligned}$ | PERCENT <br> truck Mix | ＊ | TIME－WEIGHTING FACTOR |  | TIME－WEIGHTED NEW PERCENT HEAVY TRUCK MIX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | 9 |  | 0 。 |  |  | 10. |  | ． 19 |  | 1.9 |
| 2 |  | 12 |  | 1410 。 |  |  | 48. |  | ． 25 |  | 11.9 |
| 3 |  | 12 |  | 252． |  |  | 9. |  | ． 25 |  | 2.3 |
| 4 |  | 12 |  | 39. |  |  | 6. |  | ． 25 |  | 1.5 |
| 5 |  | 3 |  | 0 。 |  |  | 9. |  | ． 06 |  | ． 5 |
| total no． OF MONTHS IN PROJEC |  |  |  |  |  |  |  |  | AVERAGE PERCENT |  |  |
|  |  | 48 |  |  |  |  |  |  |  |  | T 18．2 |
|  |  |  |  |  |  |  |  |  | CHANGE IN heavy truck mix |  |  |

HEAVY TRUCK MIX（ $\%$ OF TOTAL TRAFFIC）

$$
\begin{aligned}
& \text { HEAVY TRUCK MIX } \\
& \text { *** IMPACT SUMMARY *** } \\
& \text { DIRECTION : (INCREASE, DECREASE, NO CHANGE) } \\
& \text { PROBARILITY: (POSSIBLE, DROBABLE, DEFINITE) } \\
& \text { MAGNITUDE : } \\
& \text { MAXIMUM IMPACT } \\
& \text { AVERAGE IMPACT } \\
& \text { OURATION: } \\
& \text { MAXIMUM IMPACT } \\
& \text { AVERAGE IMPACT }
\end{aligned}
$$


＊＊＊IMPACT SUMMARY＊＊＊
（39N甘HJ UN • 39甘W甘O O甘O甘 C．3S甘3甘JNI）：NOI $\perp$ OヨyIC
PROBARILITY：（POSSIBLE，PROBABLE，DEFINITE） MAGNITUDE ：
DURATION： $N \sim N N N$
$N$
$N$
$\pm N 00$
$i n \ln 0$
$m 0$
NNNM

DIRECTION : (INCREASED ROAD DAMAGE, NO CHANGE)
PROBARILITY : (POSSIBLE, PROBABLE, DEFINITE) MAGNITUDE :

DURATION:
$0 \underset{\sim}{0} 000$
COL DAMAGE
SOME SURFACE DAMAGE
MAJOR SIJRFACE DAMAGE.
$39 \forall h \forall G$ Jovyogns zorvw • 3
$39 \forall W \forall 0$ 30vy9ins 3WOS •0
-

*     - 

NO. OF GVXIMUM LOADS * MAXIMUM LOADS

*** IMPACT SUMMARY ***

$$
\begin{aligned}
& \text { osin o } \\
& \text { NUN } \\
& \text { NN N } \\
& 0 \text { M }
\end{aligned}
$$

NO. OF LOADED

* NO.
TIME * MONTHS IN
TIME
PERIOO
のNNMM
1
2
3
4
5



## GVW OF *

 MAXIMUM LOADS*** IMPACT SUMMARY ***
DIRECTION : (INCREASED ROAD DAMAGE, NO CHANGE)
 MAGNITUDE:
DURATION:
table $\mathrm{V}-18$


table vi-1
GENERAL IMPACT SUMMARY SHEET


## GENERAL IMPACT SUMMARY SHEET


TABLE VI -1
GENERAL IMPACT SUMMARY SHEET


TABLE VI-1



TABLE VI-1
GENERAL IMPACT SUMMARY SHEET

GENERAL IMPACT SUMMARY SHEET

$V=$ VOLUNTEER FIRE PROTECTION
TABLE VTI-1
SUMMARY OF IMPACTS WHICH REQUIRE
LOCAL GOVERNMENT EXPENDITURES



HT
393

- T48

T445


[^0]:    FA
    AUSTWELL
    VICTQRIA
    PORT LAVA
    POINT COM
    SEADRIFT
    EONA
    GANADO
    PALACIOS
    －NMがロペ

[^1]:    MAGNITUDE:
    AVERAGE
    MAXIMUM IMPACT
    AVERAGE IMPACT
    DURATION:
    MAXIMUM IMPACT
    AVERAGE IMPACT AVERAGE NPACT

    $$
    \begin{aligned}
    & 2.85 \% \\
    & 1.35 \% \\
    & 12 \text { MONTHS } \\
    & 48 \text { MONTHS }
    \end{aligned}
    $$

[^2]:    3上出
    
    ○寸素
    NOIIV7ndod 人1IO＊
    1NヨタタกJ woy
    
    $\therefore \dot{-1} \dot{-1} \underset{\sim}{\circ} \underset{\sim}{\circ} \dot{\sim}$
    TOTAL NEW
    RESIDENTS

    1 ，

    $$
    \begin{aligned}
    & \begin{array}{r}
    48 \\
    \ldots-0 \\
    1450
    \end{array} \\
    & \text { のNTNM } \\
    & \begin{array}{r}
    48 \\
    -\infty-\infty \\
    1450
    \end{array}
    \end{aligned}
    $$

    TIME PERIOD

    $$
    \begin{aligned}
    & 1 \\
    & 2 \\
    & 3 \\
    & 4 \\
    & 5
    \end{aligned}
    $$

    POTAL
    YONTHS

    $$
    \begin{aligned}
    & \text { MVRENT CITY } \\
    & \text { FOPULATION }
    \end{aligned}
    $$

[^3]:    1
    2
    3
    4
    5
    CURAENT CITY
    POPJLATION
    MOTAL
    MONTHS

[^4]:    

[^5]:    $\begin{array}{cc} & * \\ \text { TIME } & \text { MONTHS IN } \\ \text { PERIOD } & * \\ \text { TIME } \\ \text { PERIOD }\end{array}$

[^6]:    12 MONTHS

[^7]:    .83
    . .39
    $\begin{array}{ll}\text { MTION: } & \\ \text { MYERMGE IMPACT } & 12 \text { MONTHS } \\ \text { AVERAGEACT } & 48 \text { MONTHS }\end{array}$
    MAGNITUDE :
    $A \triangle X I U A$ IAPACT
    $A V E R A G E$ I $\triangle P A C T$
    $\begin{array}{ll}\text { MAXIM: } & \\ \text { AVERAGE IMPACT } & 12 \text { NONTHS } \\ \text { AYACT } & 48 \text { HONTHS }\end{array}$

[^8]:    average

[^9]:    MAGNT TUDE ：
    MAXIMUQ IMPACT
    AVERAGE IMPACT
    OURATTON：
    MAXIMUM IMPACT
    AVERAGE IAPACT

    MAXIMUM IMPACT
    MAXIM：M IMPACT
    AVERAGE IAPACT

[^10]:    12 MONTHS
    48 MONTHS

[^11]:    PROBABILITY: (POSSIBLE, PROBABLE, DEFINITE)
    MAGNITUDE: $\quad$ MAXIMUM I YPACT
    $39 \forall 8 \exists A \forall$
    WกWIX甘W
    AVERAGE IMPACT
    DURATION :
    MAXIMUM IMPACT
    AVERAGE IMPACT

    ## $1.85 \%$ $.88 \%$ <br> 12 MONTHS 48 MONTHS

[^12]:    $\begin{array}{r}9 \\ 12 \\ 12 \\ 12 \\ 3 \\ -\infty\end{array}$
    $\begin{aligned} & 12 \\ & 12 \\ & 12\end{aligned}$
    $\begin{aligned} & \text { TOTAL } \\ & \text { MONTHS } 48\end{aligned}$
    CURRENT RESERVE
    RODUCTION CAPACITY
    3000.
    IN GALLONS PER DAY

[^13]:[^14]:    MAGNITUDE MAXIMUM IMPACT
    AVERAGE IMPACT
    DURATION:
    MAXIMUM IMPACT
    AVERAGE IMPACT

[^15]:    2 MONTHS
    8 MONTHS

[^16]:    1. $.28 \%$

    12 MONTHS
    48 MONTHS

[^17]:    $$
    \begin{aligned}
    & 2.85 \% \\
    & 1.35 \%
    \end{aligned}
    $$

    $$
    \begin{aligned}
    & 12 \text { MONTHS } \\
    & 48 \text { MONTHS }
    \end{aligned}
    $$

[^18]:    50.78\%
    18.65\%

    12 MONTHS
    48 MONTHS

    MAXIMUM IMPACT
    AVERAGE IMPACT
    DURATION:
    MAXIMUM IUPACT
    AVERAGE IMPACT
    DURATION:
    MAXIMUM IUPACT
    AVERAGE IMPACT

