## Live Cattle Imports <br> by Port of Entry from Mexico into the United States: <br> Data and Models

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# Live Cattle Imports by Port of Entry from Mexico into the United States: Data and Models ${ }^{1}$ 

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## INTRODUCTION

In the late 1990s, the U.S. Department of Agriculture, Animal and Plant Health Inspection Service (USDA-APHIS), commissioned a study of the factors that influence feeder cattle movements from Mexico into the United States. This commission was the basis of master's thesis research by Mitchell (2000). The goal of the study, using data from 1994 to 1998, was to provide the agency with information for each port of entry to aid them in addressing questions related to allocation of inspection services, budget concerns and personnel needs (Mitchell 2000). Simple regression models were formulated and provided previously unavailable insight into U.S.-Mexico cattle trade. More recently, Mitchell's work was revisited, additional data were obtained and the regression models were re-estimated using data for 1994 through 2003. The objective of re-estimating the models was to further examine the factors influencing feeder cattle movements from Mexico to the United States. This report presents the results of the model re-estimation, and also presents all data used in the analysis.

## CATTLE TRADE AND NAFTA

Implementation of the North American Free Trade Agreement (NAFTA) in 1994 led to significant increases in agricultural trade between the United States and Mexico; total agricultural trade was $\$ 13.74$ billion in 2002, up from $\$ 7.48$ billion in 1994 (USDAFAS 2003). Much of this increase is a result of economic growth in the United States and Mexico and reductions in trade barriers

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Fig. 1. Total Annual U.S. Live Cattle Imports from Mexico (1961-2003)
between the two countries since the passage of NAFTA. Beef and cattle trade between the United States and Mexico was well established for several decades prior to the implementation of NAFTA and saw dramatic increases in the pre-NAFTA period (Figure 1).

There are numerous factors contributing to changes in the flow of feeder cattle from Mexico to the United States over the years shown in Figure 1, including drought, changes in the Mexican economy and new export regulations in Mexico (Table 1 and Figure 2). These factors make it difficult to isolate the effects of NAFTA on the beef and cattle trade between the United States and Mexico (Mitchell et al. 2001).


Fig. 2. Total U.S. Live Cattle Imports from Mexico (1994-2003)


Source: Recicladora Temarry de Mexico

Fig. 3. Map of U.S.-Mexico border region, showing ports of entry.
In 2002, feeder cattle imports into the United States from Mexico accounted for approximately $22.12 \%$ of all U.S.-Mexico beef-cattle trade. These feeder cattle imports were valued at $\$ 300.5$ million, while all beef-cattle trade between the United States and Mexico was valued at approximately $\$ 1.36$ billion (Guinn and Skaggs 2005).

## DATA, PROCEDURES AND RESULTS

This updated study focused on the nine ports of entry with significant numbers of cattle imports. These ports are: Douglas, Nogales, and San Luis, Arizona; Columbus and Santa Teresa, New Mexico; Del Rio, Eagle Pass, Laredo, and Presidio, Texas. Figure 3 shows the location of these ports of entry.

As in the original study, data for live cattle imports were obtained from USDA-APHIS in the form of a monthly sum for each

Table 2. Percentage of Mexican Cattle
Imports by U.S. Port of Entry (1994-2003)

| Port of Entry | Head | \% Total |
| :--- | ---: | ---: |
| Douglas | 626,004 | $6.83 \%$ |
| Nogales | $1,308,903$ | $14.28 \%$ |
| San Luis | 545,629 | $5.95 \%$ |
| Columbus | 421,824 | $4.60 \%$ |
| Santa Teresa | $2,441,366$ | $26.64 \%$ |
| Del Rio | 866,353 | $9.45 \%$ |
| Eagle Pass | 488,383 | $5.33 \%$ |
| Laredo | 804,546 | $8.78 \%$ |
| Presidio | $1,660,324$ | $18.12 \%$ |
| Total | $9,163,332$ | $100.00 \%$ |

Source: USDA, APHIS, Veterinary Services


Fig. 4. Percentage of U.S. Cattle Imports from Mexico Among Nine Ports of Entry (1994-2003) (10 years total=9,163,332 head).
port of entry. The totals by port of entry for the period January 1994 through December 2003 are shown in Figure 4 and Table 2.

There is a marked seasonal pattern in U.S. cattle imports from Mexico. Generally, all nine ports of entry have higher numbers of cattle crossing into the United States between October and May and fewer imports from June to September. The seasonal pattern is visible in both Figure 5 (for the longer period of 1972-2003) and Figure 6 (January 1994-December 2003). Table 3 shows the


Fig. 5. Total U.S. Live Cattle Imports from Mexico (1972-2003)


Fig. 6. Total U.S. Live Cattle Imports from Mexico by Month (1994-2003).
monthly and annual totals for U.S. imports of Mexican cattle from 1994 through 2003 for all ports of entry. For the 10 -year period from 1994-2003, the third-highest volume year was 2003. Almost 1.13 million feeder cattle were imported into the United States from Mexico in that year.

## HIGH VOLUME PORTS OF ENTRY

By grouping the ports of entry according to high or low import volume and examining the data for each individual port (presented in the Appendix), both general and unique trends among the ports of entry can be identified. As shown in Figure 4, the three ports with a significantly higher total volume of imports for the period January 1994-December 2003 are: Santa Teresa/El Paso (26.64\%), Presidio ( $18.12 \%$ ) and Nogales ( $14.28 \%$ ). Although they are located in different geographic areas, these high-volume ports are similar. They have higher volumes of imports from October to May, with November and March being the highest-volume months of the year. The data indicate that $15.55 \%$ of the Nogales port of entry annual total volume of cattle imports entered the United States in November. By comparison, $21.79 \%$ and $16.89 \%$ of the Santa Teresa and Presidio total cattle imports entered the United States in November, respectively. The spring highs occur in March for the high-volume ports, with $13.52 \%$ of the annual total at Nogales, $12.45 \%$ at Santa Teresa, and $13.39 \%$ at Presidio entering the United States in that month. The summer months are lower, with July and August as the lowest points of the year in Santa Teresa ( $1.53 \%$ and $1.87 \%$ ) and Presidio ( $2.00 \%$ and $1.86 \%$ ). Nogales has

Table 3. Total Monthly Live Cattle Imports from Mexico for All Ports (1994-2003)

|  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan | 29,146 | 145,841 | 47,259 | 52,294 | 58,510 | 75,126 | 97,939 | 124,516 | 102,524 | 99,509 | , 64 |
| Feb | 28,304 | 184,659 | 48,137 | 63,380 | 60,295 | 95,385 | 110,201 | 109,900 | 134,982 | 87,574 | 922,817 |
| Mar | 108,502 | 253,200 | 55,352 | 41,999 | 76,342 | 111,118 | 127,769 | 138,146 | 129,291 | 89,004 | 1,130,723 |
| Apr | 110,683 | 175,013 | 32,805 | 61,607 | 73,854 | 68,576 | 98,397 | 138,674 | 25,693 | 87,245 | 872,547 |
| May | 63,854 | 157,593 | 18,678 | 38,261 | 55,937 | 42,211 | 99,430 | 78,238 | 19,125 | 81,523 | 654,850 |
| Jun | 34,566 | 93,511 | 8,165 | 26,813 | 20,838 | 37,477 | 45,331 | 43,428 | 7,408 | 45,103 | 362,640 |
| Jul | 19,827 | 8,531 | 5,480 | 18,704 | 701 | 17,925 | 18,260 | 4,923 | 14 | 39,099 | 219,564 |
| Aug | 33,005 | 70,738 | 3,893 | 21,694 | 3,258 | 11,985 | 33,965 | 30,123 | 6,356 | 32,819 | 247,836 |
| Sep | 44,030 | 41,267 | 3,314 | 21,977 | 9,694 | 25,992 | 60,118 | 32,447 | 8,924 | 58,986 | 306,749 |
| Oct | 90,179 | 80,705 | 13,643 | 72,218 | 74,350 | 100,010 | 116,295 | 82,826 | 60,646 | 147,737 | 838,609 |
| Nov | 158,693 | 162,840 | 125,156 | 144,377 | 162,799 | 205,573 | 182,722 | 126,171 | 146,132 | 189,682 | 1,604,145 |
| Dec | 134,186 | 105,851 | 79,444 | 87,681 | 77,228 | 130,374 | 141,717 | 102,516 | 140,738 | 170,453 | 1,170,188 |
| Tot | 854,975 | 1529,749 | 441,326 | 651,005 | 681,806 |  |  | 031,908 |  | 128,734 | 9,163,332 |



Fig. 7. Santa Teresa, NM Live Cattle Imports (1994-2003)
the lowest volumes in August and September ( $2.05 \%$ and $2.33 \%$ ). Monthly imports for the period January 1994 through December 2003 for each high-volume port of entry are presented in Figures 7, 8 and 9 .

## LOW VOLUME PORTS OF ENTRY

The other six ports all represent relatively low percentages of Mexican cattle imports for the period 1994-2003 (Figure 4), with Del Rio having $9.45 \%$ of the 10 -year total, Laredo with $8.78 \%$, Douglas with $6.83 \%$, San Luis with $5.95 \%$, Eagle Pass with 5.33\% and Columbus with $4.60 \%$ of the 10 -year total. One distinct difference between these ports and the high-volume ports is that the lowvolume ports have more variability in the high and low months. While July through September are still the low months, there are often groups of high-volume months that differ more from the other months instead of one month that stands out in particular Some ports only have a high in one season; for example, Columbus crosses relatively large numbers of cattle in November ( $37.43 \%$ ), Douglas in November (22.68\%) and Laredo in March (14.34\%). Monthly imports through low-volume ports of entry are presented in Figures 10 through 15 for the period January 1994 through December 2003.


Fig. 8. Presidio, TX Live Cattle (1994-2003)


Fig. 9. Nogales, AZ Live Cattle (1994-2003)


Fig. 10. Del Rio, TX Live Cattle Imports (1994-2003)


Fig. 11. Laredo, TX Live Cattle Imports (1994-2003)


Fig. 12. Douglas, AZ Live Cattle Imports (1994-2003)


Fig. 13. San Luis, AZ Live Cattle Imports (1994-2003)


Fig. 14. Eagle Pass, AZ Live Cattle Imports (1994-2003)


Fig. 15. Columbus, NM Live Cattle Imports (1994-2003)

## 2003 DATA

Data for U.S. imports of Mexican cattle in 2003 provide a snapshot of the current situation. The distribution of cattle imports by port of entry follows the long-term trend with Nogales, Santa Teresa and Presidio being the three high-volume ports (Figure 16). Santa Teresa remains the highest-volume port with $24.19 \%$ of the $1,128,734$ head that were imported in 2003. Presidio follows with $23.10 \%$ of total imports, and Nogales is third with $13.75 \%$ of the total (Table 4).

Table 4. 2003 U.S. Live Cattle Imports

| Port of Entry | Head | \% Total |
| :--- | ---: | ---: |
| Douglas | 95,760 | $8.48 \%$ |
| Nogales | 155,238 | $13.75 \%$ |
| San Luis | 43,922 | $3.89 \%$ |
| Columbus | 69,737 | $6.18 \%$ |
| Santa Teresa | 273,017 | $24.19 \%$ |
| Del Rio | 114,650 | $10.16 \%$ |
| Eagle Pass | 47,618 | $4.22 \%$ |
| Laredo | 68,043 | $6.03 \%$ |
| Presidio | 260,749 | $23.10 \%$ |
| Yearly Total | $1,128,734$ | $100.00 \%$ |

Source: USDA, APHIS, Veterinary Services


Fig. 16. 2003 U.S. Live Cattle Imports from Mexico by Port (2003 total $=1,228,734$ head)

The monthly distribution of 2003 imports also follows the overall trends, with the eight months from October to May being the high-volume period (Figure 17). Approximately $45 \%$ of total imports entered the United States during the months of October, November and December (Table 5).

Table 5. 2003 U.S. Live Cattle Imports

| Month | Head | \% Total |
| :--- | ---: | ---: |
| January | 99,509 | $8.82 \%$ |
| February | 87,574 | $7.76 \%$ |
| March | 89,004 | $7.89 \%$ |
| April | 87,245 | $7.73 \%$ |
| May | 81,523 | $7.22 \%$ |
| June | 45,103 | $4.00 \%$ |
| July | 39,099 | $3.46 \%$ |
| August | 32,819 | $2.91 \%$ |
| September | 58,986 | $5.23 \%$ |
| October | 147,737 | $13.09 \%$ |
| November | 189,682 | $16.80 \%$ |
| December | 170,453 | $15.10 \%$ |
| Yearly Total | $1,128,734$ | $100.00 \%$ |

Source: USDA, APHIS, Veterinary Services


Fig. 17. 2003 U.S. Live Cattle Imports from Mexico by Month (2003 total $=1,128,734$ head)

## UPDATED REGRESSION MODELS

Mitchell (2000) estimated separate simple regression models for each of the nine live cattle ports of entry along the U.S.-Mexico border. The objective of the research was to provide insight into factors influencing cattle imports into the United States at each point of entry. Mitchell's (2000) models were estimated using monthly data for the period January 1994-December 1998. The model equations were specified with monthly numbers of live cattle imported at each port as the dependent variable, with different independent variables selected for each model equation. The ratio of U.S. live cattle nominal price to Mexican live cattle nominal price (in U.S. dollars), a linear trend variable, and cumulative, lagged rainfall (over 12 months) in the Mexican states of cattle origin were used in the models when those variables showed significance The rainfall lags were set up such that the rainfall observation for January 1995 was the sum of rainfall from January 1994 through December 1994, while the rainfall reported for February 1995 was the sum of rainfall from February 1994 through January 1995, and so on. Data on Mexican pasture conditions are not available thus, measurements of accumulated rainfall serve as proxies for grazing conditions on the rangelands of northern Mexico.

Monthly dummy variables were used to account for seasonal fluctuations in cattle shipments. The dummy variable values for high-volume shipping months were coded as "ones", which had the effect of shifting the regression line up in months with significantly higher numbers of cattle crossings. The U.S. nominal cattle price was for 500 -pound feeder cattle marketed at Amarillo, Texas. The Mexican nominal cattle price was for equivalent cattle marketed in Mexico City. The linear trend variable with values from 0 to 120 accounted for obvious upward or downward trends in cattle crossings at some ports of entry.

The original explanatory models (Mitchell 2000) were re-estimated using monthly data for the period January 1994-December 2003. The first re-estimations indicated that the Mitchell models needed to be reformulated due to reduced goodness of fit. Stepwise regression procedures were applied to the full complement of monthly dummy variables in order to evaluate the explanatory power of the different monthly variables (with statistical significance set at $\alpha=.10$ ). The nine updated regression models were selected using backward stepwise selections to identify the significant
monthly dummy variables. This process began with all monthly dummy variables in the models and retained only the variables that were significant at $\alpha=.10$. For theoretical purposes, the price ratio and rainfall variables were present in all re-estimated models with the exception of the Laredo model. The stepwise regression procedure was also applied to the trend variable, which was found to be significant in only two of the nine models, Eagle Pass and Laredo. Definitions of explanatory variables are presented in Table 6. Estimation results for the updated models are shown in Table 7. All estimation was conducted using SAS ${ }^{T M}$ software. All data used in the models are presented in the Appendix.
The single equation regression models explained at least $54 \%$ of the variability in monthly cattle crossings at each port of entry. The relationship between the U.S.-Mexico live cattle price ratio and the independent variables (e.g., numbers of animals imported) was consistently positive, with a greater price ratio associated with increased movement of cattle into the United States.
The signs on the rainfall variables were mixed, and with the exception of the Presidio model, none of the rainfall variable coefficients were significantly different from zero. The earlier research

Table 6. Explanatory Variable Definitions

| Variable <br> Name | Variable Definition |
| :---: | :---: |
| pr | U.S. cattle prices/Mexican cattle prices |
| rsum4chi | Cumulative and lagged rainfall for Chihuahua for the last 12 months |
| rsum4coa | Cumulative and lagged rainfall for Coahuila for the last 12 months |
| rsum4dur | Cumulative and lagged rainfall for Durango for the last 12 months |
| rsum4sin | Cumulative and lagged rainfall for Sinaloa for the last 12 months |
| rsum4son | Cumulative and lagged rainfall for Sonora for the last 12 months |
| trend | Linear variable |
| jan | Monthly dummy variable for the month of January |
| feb | Monthly dummy variable for the month of February |
| mar | Monthly dummy variable for the month of March |
| apr | Monthly dummy variable for the month of April |
| may | Monthly dummy variable for the month of May |
| jun | Monthly dummy variable for the month of June |
| jul | Monthly dummy variable for the month of July |
| aug | Monthly dummy variable for the month of August |
| sep | Monthly dummy variable for the month of September |
| oct | Monthly dummy variable for the month of October |
| nov | Monthly dummy variable for the month of November |
| dec | Monthly dummy variable for the month of December |

Table 7．Regression model results by port of entry．

| $\begin{aligned} & \text { n } \\ & \text { 品 } \end{aligned}$ | － |  |
| :---: | :---: | :---: |
|  | 药 |  |
|  |  |  |
|  | － |  |
|  | 药 |  |
|  |  |  |
|  | 2 |  |
|  | 品 |  |
|  |  |  |
|  |  |  |

Table 7．Regression model results by port of entry．

| $\begin{aligned} & \stackrel{n}{3} \\ & \stackrel{n}{2} \\ & \text { n } \end{aligned}$ | － |  |
| :---: | :---: | :---: |
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|  | 皆 |  |
|  |  |  |
|  |  |  |

found more statistically significant rainfall effects and more variabil－ ity in the rainfall coefficient signs（Mitchell 2000）．A positive sign on the rainfall coefficient indicates that increased precipitation is correlated with increased exports of cattle，due to the greater forage production．However，a negative relationship between cumulative precipitation and cattle exports is also logical given the nature of cattle production in northern Mexico and responses to drought and peso depreciation．During periods of drought，the cattle produc－ ers engage in herd reduction or liquidation，and exports increase as a result．The period over which the models were re－estimated was predominated by drought，with intermittent favorable rainfall con－ ditions．The negative signs on the rainfall coefficients may reflect this situation，although as stated above，the majority of the variables were statistically insignificant in the individual re－estimated models．

The trend variable was significant in the Eagle Pass and Laredo models．These are both low volume ports with large decreases in cattle crossings since the peak period of 1995．The monthly dum－ my variables in the re－estimated models reveal the same tendencies found by Mitchell（2000）．These intercept shift variables reflect the marketing patterns that exist in the northern Mexico export cattle industry（e．g．，Mexican producers begin shipping animals to the United States immediately following the first fall freeze），and are also related to seasonal forage availability．

The goodness of fit（Adjusted R2）of all the re－estimated mod－ els was lower than that achieved by Mitchell（2000），using a more limited data set．The Mexican economy and agricultural sector were impacted by economic instability and currency depreciation during the period for which the models were originally estimated （1994－1998）．This period also saw the implementation of the North American Free Trade Agreement and severe drought．The Mexican economy was more stable during the period 1999－2003， although peso depreciation and drought continued．Procedures for exporting cattle from Mexico to the United States changed as a result of increased efforts to control and eradicate bovine tuber－ culosis in the two countries．The discovery of bovine spongiform encephalopathy in Canada in early 2003 also impacted cattle and beef prices throughout North America that year．There may be ad－ ditional variables that should be incorporated into the port－of－entry explanatory models presented here；however，data related to range cattle production conditions remain limited．

## SUMMARY AND CONCLUSION

The objective of this research was to update and re-estimate simple regression models developed by Mitchell (2000), which were intended to give the USDA-APHIS information on each individual port of entry to allow for better allocation of inspection services, budget concerns and personnel needs. Mitchell's nine models were specified with monthly imports of Mexican cattle at a specific port of entry as a function of relative U.S.-Mexico light cattle prices, cumulative precipitation (rolling, over the preceding year), and monthly dummy variables. The models were re-estimated with twice the amount of data that were available when they were first estimated. The explanatory power of the new models was slightly weaker than the explanatory power of the earlier models (based on Adjusted R2 values). Another objective of this report was to compile all data used in the estimations, as these data are not readily accessible. All data used in the estimations are included in the report.

Improved econometric analysis of U.S. imports of Mexican cattle is limited by the amount and type of data available. Pasture conditions are a key factor in determining marketing patterns for Mexican cattle. Pasture conditions are represented by a proxy variable in this research, and some of the deterioration in models' explanatory power may be due to the inadequacy of the proxy variable (e.g., precipitation). The models presented here captured the strong seasonal marketing patterns that exist in U.S.-Mexico live cattle trade. The figures and charts illustrate the spatial and temporal distributions of U.S. imports of Mexican cattle over the last 10 years. This report provides a snapshot of U.S. imports of Mexican cattle as of early 2004. Future imports of Mexican cattle will likely be influenced by livestock market conditions in both the United States and Mexico, which in turn will be affected by economic conditions in the two countries. Additional econometric analysis should incorporate variables related to U.S. cattle market conditions, thus capturing the factors that pull Mexican cattle into the U.S. beef market.

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APPENDIX A-IMPORT DATA BY PORT OF ENTRY
Source: United States Department of Agriculture, Animal Plant and Health Inspection Service, Veterinary Services

Douglas, AZ Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly <br> \% of the Year | Number of Head |
|  |  | 0.00\% | 6,663 | \% | ,548 | 9.15 | 6,338 | 17.5 | 2,037 | 5.71\% | 926 |
| Feb | 976 | 1.48 | 5,730 | 6.52\% | 5,990 | 12.05\% | 2,471 | 6.86 | 1,467 | 4.11 | 71 |
| Mar | 12,077 | 18.34\% | 10,850 | 12.35\% | ,310 | 14.70\% | 2,094 | 5.81\% | 2,302 | 6.45\% | 7,392 |
| Apr | 14,263 | 21.66\% | 12,618 | 14.36\% | ,978 | 14.03\% | 597 | 7.21\% | ,824 | 10.72\% | ,243 |
| May | ,950 | 9.04\% | 9,045 | 10.29\% | 1,745 | 3.51\% | 3,961 | 10.99\% | 3,119 | 8.75 | 2,906 |
| Jun | 3,377 | 5.13\% | 7,205 | 8.20\% | 331 | 0.67\% | 570 | 1.58\% | 373 | 1.05\% | 1,680 |
| Jul | 0 | 00\% | 2,992 | 3.40\% | 169 | 0.34 | 0 | 0.00 | 177 | 0.50 | 323 |
| Aug | 160 | 0.24\% | 1,549 | 1.76\% | 0 | 0.00\% | 17 | 0.05 | 40 | 0.1 |  |
| Sep | 253 | 0.38\% | , 55 | 2.00\% | 113 | 0.230 | 134 | 0.37 | 2 | 1.1 | 0 |
| O | 2,017 | 3.06\% | 7,406 | 8.43\% | 88 | 0.18 | 3,505 | 9.73\% | 5,788 | 16.23\% | 5,998 |
| Nov | 13,732 | 20.86\% | 14,501 | 16.50\% | 10,939 | 22.00 | 10,426 | 28.94\% | 9,943 | 27.88\% | 18,743 |
| Dec | 13,030 | 19.79\% | 7,564 | 8.61\% | 11,518 | 23.16\% | 3,917 | 10.87\% | 6,192 | 17.36\% | 15,192 |
| Total | 65,835 | 100.00\% | 87,87 | . 00 | 49,72 | .00 | 36,030 | 0.00 | 35,66 | 0.00 | 61,67 |

Nogales, AZ Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 199 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly <br> \% of the <br> Year | Number of Head |
| Jan | 17,097 | 10.65\% | 18,078 | 10.37\% | 9,448 | 9.30\% | 13,989 | 11.44\% | 9,929 | 8.95\% | 7,160 |
| Feb | 17,199 | 10.71\% | 15,214 | 8.73\% | 13,315 | 13.11\% | 11,421 | 9.34\% | 9,307 | 8.39\% | 11,736 |
| Mar | 27,428 | 17.09\% | 27,167 | 15.58\% | 18,834 | 18.55\% | 15,085 | 12.34\% | 13,254 | 11.95\% | 18,381 |
| Apr | 21,673 | 13.50\% | 20,431 | 11.72\% | 7,602 | 7.49\% | 15,813 | 12.93\% | 16,350 | 14.75\% | 12,117 |
| May | 11,815 | 7.36\% | 21,829 | 12.52\% | 6,052 | 5.96\% | 8,703 | 7.12\% | 13,019 | 11.74\% | 5,902 |
| Jun | 4,894 | 3.05\% | 13,425 | 7.70\% | 1,564 | 1.54\% | 5,722 | 4.68\% | 4,068 | 3.67\% | 6,110 |
| Jul | 2,665 | 1.66\% | 6,277 | 3.60\% | 274 | 0.27\% | 4,536 | 3.71\% | 2,062 | 1.86\% | 2,884 |
| Aug | 3,779 | 2.35\% | 4,349 | 2.49\% | 273 | 0.27\% | 2,986 | 2.44\% | 353 | 0.32\% | 2,301 |
| Sep | 3,713 | 2.31\% | 3,141 | 1.80\% | 06 | 0.60\% | 3,838 | 3.14\% | 627 | 0.57\% | 2,962 |
| Oct | 5,397 | 3.36\% | 7,926 | 4.55\% | 5,974 | 5.88\% | 7,145 | 5.84\% | 7,897 | 7.12\% | 13,584 |
| Nov | 24,122 | 15.03\% | 22,737 | 13.04\% | 19,695 | 19.39\% | 18,705 | 15.30\% | 19,282 | 17.39\% | 21,813 |
| Dec | 20,746 | 12.92\% | 13,766 | 7.90\% | 17,915 | 17.64\% | 14,351 | 11.73\% | 14,736 | 13.29\% | 19,852 |
| Total | 160,528 | 100.00\% | 17 | 00 | 101,552 | 100.00\% | 122, | 100.0 | 110,88 | 100.00\% | 24,802 |

San Luis, AZ Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \% \text { of the } \\ & \text { Year } \end{aligned}$ | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the Year | Number of Head |
| Jan | 0 | 0.0\% | 5,948 | 7.47\% | 3,703 | 9.05\% | 6,209 | 18.48\% | 4,787 | 12.19\% | 6,088 |
| Feb | 0 | 0.0\% | 6,933 | 8.71\% | 3,716 | 9.08\% | 4,916 | 14.64\% | 3,359 | 8.56\% | 9,216 |
| Mar | 6,616 | 20.6\% | 10,804 | 13.58\% | 3,873 | 9.46\% | 3,740 | 11.13\% | 3,276 | 8.34\% | 10,733 |
| Apr | 6,117 | 19.0\% | 12,556 | 15.78\% | 2,966 | 7.24\% | 2,723 | 8.11\% | 6,194 | 15.78\% | 3,771 |
| May | 1,777 | 5.5\% | 11,796 | 14.82\% | 1,443 | 3.52\% | 1,845 | 5.49\% | 5,798 | 14.77\% | 2,481 |
| Jun | 1,227 | 3.8\% | 5,746 | 7.22\% | 680 | 1.66\% | 286 | 0.85\% | 2,976 | 7.58\% | 1,923 |
| Jul | 0 | 0.0\% | 2,442 | 3.07\% | 589 | 1.44\% | 307 | 0.91\% | 662 | 1.69\% | 2,163 |
| Aug | 497 | 1.5\% | 2,531 | 3.18\% | 453 | 1.11\% | 842 | 2.51\% | 0 | 0.00\% | 1,124 |
| Sep | 0 | 0.0\% | 1,188 | 1.49\% | 604 | 1.48\% | 541 | 1.61\% | 0 | 0.00\% | 1,678 |
| Oct | 1,739 | 5.4\% | 5,984 | 7.52\% | 2,424 | 5.92\% | 1,546 | 4.60\% | 2,031 | 5.17\% | 5,231 |
| Nov | 8,143 | 25.3\% | 8,595 | 10.80\% | 9,754 | 23.83\% | 4,594 | 13.68\% | 6,529 | 16.63\% | 12,556 |
| Dec | 6,067 | 18.9\% | 5,062 | 6.36\% | 10,734 | 26.22\% | 6,041 | 17.98\% | 3,647 | 9.29\% | 13,299 |
| Total | 32,183 | 100.00\% | 79,585 | 100.00\% | 40,939 | 100.00\% | 33,590 | 100.00\% | 39,259 | 100.00 | 70,263 |

## Douglas, AZ (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly $\%$ of the Year | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \% \text { of the } \\ & \text { Year } \end{aligned}$ | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \text { \% of the } \\ & \text { Year } \end{aligned}$ | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \% \text { of the } \\ & \text { Year } \end{aligned}$ | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \% \text { of the } \\ & \text { Year } \end{aligned}$ | Number of Head | Monthly \% of the Year |
| 4.74\% | 8,675 | 12.76\% | 2,386 | 4.37\% | 4,228 | 5.97\% | 7,140 | 7.46\% | 44,941 | 7.18\% |
| 3.68\% | 7,847 | $11.54 \%$ | 2,979 | 5.45\% | 3,212 | 4.54\% | 4,660 | 4.87\% | 37,603 | 6.01\% |
| 11.99\% | 8,064 | 11.86\% | 5,139 | 9.40\% | 3,214 | 4.54\% | 6,133 | 6.40\% | 64,575 | 10.32\% |
| 6.88\% | 5,827 | 8.57\% | 8,748 | 16.00\% | 4,151 | 5.87\% | 10,753 | 11.23\% | 74,002 | 11.82\% |
| 4.71\% | 8,902 | 13.09\% | 3,867 | 7.07\% | 2,271 | 3.21\% | 6,770 | 7.07\% | 48,536 | 7.75\% |
| 2.72\% | 2,999 | 4.41\% | 2,016 | 3.69\% | 625 | 0.88\% | 3,876 | 4.05\% | 23,052 | 3.68\% |
| 0.52\% | 201 | 0.30\% | 318 | 0.58\% | 243 | 0.34\% | 2,992 | 3.12\% | 7,415 | 1.18\% |
| 0.00\% | 449 | 0.66\% | 0 | 0.00\% | 0 | 0.00\% | 1,680 | 1.75\% | , 895 | 0.62\% |
| 0.00\% | 361 | 0.53\% | 3,166 | 5.79\% | 356 | 0.50\% | 1,207 | 1.26\% | 7,747 | 1.24\% |
| 9.73\% | 5,014 | 7.37\% | 9,016 | 16.49\% | 14,716 | 20.80\% | 13,138 | 13.72\% | 66,686 | 10.65\% |
| 30.39\% | 12,684 | 18.65\% | 10,077 | 18.44\% | 20,314 | 28.71\% | 20,650 | 21.56\% | 142,009 | 22.68\% |
| 24.63\% | 6,988 | 10.27\% | 6,947 | 12.71\% | 17,434 | 24.64\% | 16,761 | 17.50\% | 105,543 | 16.86\% |
| 100.00\% | 68,011 | 100.00\% | 54,659 | 100.00\% | 70,764 | 100.00\% | 95,760 | 100.00\% | 626,004 | 100.00\% |

Nogales, AZ (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly $\%$ of the <br> Year | Number of Head | $\begin{aligned} & \text { Monthy } \\ & \text { \% of the } \\ & \text { Year } \end{aligned}$ | Numbe of Head | $\begin{aligned} & \text { Monthly } \\ & \text { \% of the } \\ & \text { Year } \end{aligned}$ | Number of Head | Monthly $\%$ of the Year | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \text { \% of the } \\ & \text { Year } \end{aligned}$ | Number of Head | Monthly \% of the Year |
| 5.74\% | 13,079 | 10.30\% | 15,284 | 13.58\% | 10,340 | 8.63\% | 14,665 | 9.45\% | 129,069 | 9.86\% |
| 9.40\% | 15,835 | 12.47\% | 11,253 | 10.00\% | 8,626 | 7.20\% | 12,024 | 7.75\% | 125,930 | 9.62\% |
| 14.73\% | 16,121 | 12.70\% | 17,415 | 15.47\% | 11,243 | 9.39\% | 12,031 | 7.75\% | 176,959 | 13.52\% |
| 9.71\% | 13,394 | 10.55\% | 13,764 | 12.23\% | 6,795 | 5.67\% | 17,541 | 11.30\% | 145,480 | 11.11\% |
| 4.73\% | 9,775 | 7.70\% | 8,628 | 7.67\% | 9,689 | 8.09\% | 14,535 | 9.36\% | 109,947 | 8.40\% |
| 4.90\% | 7,323 | 5.77\% | 4,065 | 3.61\% | 3,417 | 2.85\% | 8,631 | 5.56\% | 59,219 | 4.52\% |
| 2.31\% | 1,613 | 1.27\% | 2,582 | 2.29\% | 3,393 | 2.83\% | 9,369 | 6.04\% | 35,655 | 2.72\% |
| 1.84\% | 2,002 | 1.58\% | 2,419 | 2.15\% | 3,723 | 3.11\% | 4,663 | 3.00\% | 26,848 | 2.05\% |
| 2.37\% | 3,306 | 2.60\% | 3,043 | 2.70\% | 3,692 | 3.08\% | 5,630 | 3.63\% | 30,558 | 2.33\% |
| 10.88\% | 6,439 | 5.07\% | 6,692 | 5.95\% | 19,506 | 16.29\% | 13,739 | 8.85\% | 94,299 | 7.20\% |
| 17.48\% | 19,607 | 15.44\% | 13,572 | 12.06\% | 21,094 | 17.62\% | 22,946 | 14.78\% | 203,573 | 15.55\% |
| 15.91\% | 18,482 | 14.56\% | 13,823 | 12.28\% | 18,231 | 15.22\% | 19,464 | 12.54\% | 171,366 | 13.09\% |
| 100.00\% |  |  |  |  |  |  |  |  |  |  |

San Luis, AZ (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly $\%$ of the Year | Number of Head | Monthly <br> \% of the <br> Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly \% of the Year |
| 8.66\% | 6,149 | 8.99\% | 7,864 | 11.53\% | 7,782 | 11.23\% | 7,411 | 16.87\% | 55,941 | 10.25\% |
| 13.12\% | 8,195 | 11.98\% | 6,583 | 9.65\% | 9,031 | 13.03\% | 4,977 | 11.33\% | 56,926 | 10.43\% |
| 15.28\% | 9,295 | 13.59\% | 9,924 | 14.55\% | 9,031 | 13.03\% | 3,910 | 8.90\% | 71,202 | 13.05\% |
| 5.37\% | 4,930 | 7.21\% | 9,859 | 14.45\% | 3,747 | 5.41\% | 3,172 | 7.22\% | 56,035 | 10.27\% |
| 3.53\% | 6,790 | 9.93\% | 8,825 | 12.94\% | 3,972 | 5.73\% | 4,684 | 10.66\% | 49,41 | 9.06\% |
| 2.74\% | 4,472 | 6.54\% | 3,416 | 5.01\% | 2,082 | 3.00\% | 2,535 | 5.77\% | 25,343 | 4.64\% |
| 3.08\% | 1,911 | 2.79\% | 2,429 | 3.56\% | 2,016 | 2.91\% | 1,466 | 3.34\% | 13,985 | 2.56\% |
| 1.60\% | 2,247 | 3.29\% | 903 | 1.32\% | 680 | 0.98\% | 1,003 | 2.28\% | 10,280 | 1.88\% |
| 2.39\% | 1,377 | 2.01\% | 1,192 | 1.75\% | 1,805 | 2.61\% | 951 | 2.17\% | 9,336 | 1.71\% |
| 7.44\% | 4,191 | 6.13\% | 2,614 | 3.83\% | 7,252 | 10.47\% | 2,406 | 5.48\% | 35,418 | 6.49\% |
| 17.87\% | 10,005 | 14.63\% | 5,908 | 8.66\% | 11,140 | 16.08\% | 5,524 | 12.58\% | 82,748 | 15.17\% |
| 18.93\% | 8,817 | 12.89\% | 8,706 | 12.76\% | 10,748 | 15.51\% | 5,883 | 13.39\% | 79,004 | 14.48\% |
| 100.00\% | 8.379 |  | 8,223 |  | 69.286 |  |  |  |  |  |

Columbus, NM Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | \% of the Year | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \% \text { of the } \\ & \text { Year } \end{aligned}$ | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \% \text { of the } \end{aligned}$ Year | Number of Head | $\begin{aligned} & \text { Monthly } \\ & \% \text { of the } \end{aligned}$ Year | Number of Head |
|  | 0 | .00\% | 683 | 13\% | 400 | 2.40\% | 0 | 0.00\% | 914 | 2.42\% | ,090 |
| Feb | 0 | 0.00\% | 2,763 | 5.28\% | 241 | 1.45\% | 0 | 0.00\% | 0 | 0.00\% | 917 |
| Mar | 1 | 1.29\% | 821 | 13.04 | 0 | 00 | 0 | .00 | 1,155 | .06\% | 2,143 |
| Apr | 1,254 | 4.05\% | 6,671 | 12.76\% | 267 | 1.60\% | 346 | 1.44\% | 655 | 1.74\% | 4,032 |
| May | 906 | 2.92\% | 6,200 | 11.86\% | 0 | .00\% | 0 | 0.00\% | 1,840 | 4.88\% | 4,608 |
| Jun | 196 | 0.63\% | 01 | 5.17\% | 0 | 0.00\% | 0 | 0.00\% | 43 | .16 | ,943 |
| Jul | 948 | .06\% | 2,507 | 4.79\% | 341 | 2.05\% | 0 | 0.00\% | 0 | 0.00\% | 350 |
| Aug | 112 | 0.36\% | 1,418 | 2.71\% | 0 | 0.00\% | 0 | 0.00\% | 0 | $0.00 \%$ | 0 |
| Sep | 2,151 | 6.94 | 514 | 0.98\% | 0 | .00 | 0 | 0.00\% | 0 | 0.00 | 0 |
| Oct | 12,005 | $38.74 \%$ | 1,571 | 3.00 | 794 | 4.77 | 1,686 | 7.04 | 3,622 | $9.60 \%$ | 9,110 |
| Nov | 7,421 | 23.94\% | 12,356 | 23.63\% | 13,112 | 78.69\% | 18,325 | 76.52\% | 23,443 | 62.12\% | 21,692 |
| Dec | 5,598 | 18.06\% | 6,085 | 11.64\% | 1,508 | 9.05\% | 3,592 | 15.00\% | 5,672 | 15.03\% | 4,093 |
| Total | 30,992 | 100.00\% | 52,290 | 100 | 16,6 | 100.00\% | 23,949 | 100.00\% | 37,740 | 100.00 | 51,978 |

Santa Teresa, NM Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly <br> \% of the Year | Numbe of Head | Monthly $\%$ of the Year | Numbe of Head | Monthly <br> \% of the <br> Year | Number of Head | Monthly <br> \% of the <br> Year | Number of Head |
|  | 0 | 0.00\% | 30,155 | 8.20 | 6,833 | 5.378 | 9,885 | 4.91\% | ,39 | \% | 2,169 |
| Feb | 0 | 0.00\% | 51,185 | 13.92\% | 13,636 | 10.71\% | 22,059 | 10.96\% | 14,342 | 6.85\% | 26,825 |
| Mar | 279 | 11.92 | 64,4 | 17.52\% | 15,613 | 12.26 | 11, | 5.90\% | 1,218 | 10.14 | 35,822 |
| Apr | 37,261 | 15.70\% | 33,610 | $9.14 \%$ | 4,322 | $3.40 \%$ | 18,224 | 9.05 | 17,004 | 8.13\% | 23,2 |
| May | 13,181 | 5.56\% | 877 | 75\% | 6,043 | .75 | , 04 | 4.49 | 10,733 | 5.13\% | 11,028 |
| Jun | 6,059 | 2.55\% | 22,863 | 6.22\% | 4,312 | 3.39\% | 8,005 | 3.98\% | 3,647 | 1.74\% | 12,554 |
| Jul | 2,989 | 1.26\% | 12,3 | 37\% | 1,868 | 1.47\% | 2,851 | . 42 | 1,622 | 0.7 | 3,356 |
| Aug | 5,760 | 2.43\% | 16,970 | 4.61\% | 1,275 | 1.00\% | 3,085 | 1.53 | 421 | 0.20\% | ,139 |
| Sep | 15,093 | $6.36 \%$ | 13,261 | 3.61\% | 35 | 0.42 | 335 | 2.1 | 2,728 | 1.30\% | 5,215 |
| Oct | ,437 | 14.93\% | 15,6 | 4.26 | 1,539 | 1.21\% | 28,088 | 13.9 | 32,050 | 15.3 | 28,708 |
| Nov | 55,491 | 23.39\% | 44,640 | 12.14\% | 54,914 | 43.14\% | 52,038 | 25.85\% | 61,061 | 29.18\% | 67,794 |
| Dec | 37,728 | 15.90\% | 26,742 | 7.27\% | 16,414 | 12.89\% | 31,802 | 15.80\% | 31,493 | 15.05\% | 32,862 |
| Total | 237,278 | 100.00\% | 367,787 | . 00 | 127,3 | .00 | 201,2 | 0.0 | 209,258 | 100.0 | 270,770 |

Del Rio, TX Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|c} \begin{array}{c} \text { Number } \\ \text { of Head } \end{array} \\ \hline \end{array}$ | Monthly \% of the Year | $\begin{array}{\|l} \text { Number } \\ \text { of Head } \end{array}$ | Monthly <br> \% of the Year | Number of Head | Monthly \% of the Year | Number of Head | Monthly \% of the Year | $\begin{array}{l}\text { Number } \\ \text { of Head }\end{array}$ | Monthly <br> \% of the <br> Year | Numbe of Head |
| Jan | 0 | 0.00\% | 23,573 | 11.40\% | 6,723 | 25.46\% | 2,752 | 6.92\% | 3,420 | 7.39\% | 7,339 |
| Feb | 0 | 0.00\% | 24,895 | 12.04\% | 1,797 | 6.81\% | 3,541 | 8.90\% | 4,557 | 9.85\% | 9,535 |
| Mar | 0 | 0.00\% | 31,205 | 15.09\% | 3,194 | 12.10\% | 1,301 | 3.27\% | 5,378 | 11.63\% | 8,765 |
| Apr | 0 | 0.00\% | 24,201 | 11.71\% | 4,245 | 16.08\% | 4,063 | 10.21\% | 3,722 | 8.05\% | 6,365 |
| May | 12,872 | 16.64\% | 15,078 | 7.29\% | 1,463 | 5.54\% | 2,855 | 7.18\% | 5,314 | 11.49\% | 4,800 |
| Jun | 8,472 | 10.95\% | 15,684 | 7.59\% | 881 | 3.34\% | 2,447 | 6.15\% | 2,226 | 4.81\% | 4,331 |
| Jul | 5,673 | 7.33\% | 9,977 | 4.83\% | 559 | 2.12\% | 2,412 | 6.06\% | 2,488 | 5.38\% | 3,735 |
| Aug | 8,449 | 10.92\% | 16,689 | 8.07\% | 1,464 | 5.54\% | 3,214 | 8.08\% | 506 | 1.09\% | 2,705 |
| Sep | 7,154 | 9.25\% | 8,348 | 4.04\% | 763 | 2.89\% | 3,416 | 8.59\% | 2,210 | 4.78\% | 4,958 |
| Oct | 7,733 | 10.00\% | 14,081 | 6.81\% | 1,114 | 4.22\% | 3,712 | 9.33\% | 2,374 | 5.13\% | 7,141 |
| Nov | 11,210 | 14.49\% | 11,467 | 5.55\% | 1,626 | 6.16\% | 5,918 | 14.88\% | 4,936 | 10.67\% | 10,922 |
| Dec | 15,779 | 20.40\% | 11,539 | 5.58\% | 2,577 | 9.76\% | 4,149 | 10.43\% | 9,119 | 19.72\% | 9,260 |
| Total | 77,342 | 100.00\% | 206,737 | 00.00\% | 26,406 | 100.00 | 39,78 | 00.00 | 46,250 | 100.00 | 79,856 |

Columbus, NM (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly $\%$ of the Year | Number of Head | $\begin{aligned} & \text { \% of the } \\ & \text { Year } \end{aligned}$ | Number of Head | Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the <br> Year |
| \% | ,608 | 79 | 1,620 | 4.24 | 3,330 | 5.76\% | 6,075 | 8.71\% | 19,720 | 4.67\% |
| 1.76\% | 2,226 | 5.24\% | 3,189 | 8.35\% | 8,484 | 14.66\% | 6,900 | 9.89\% | 24,720 | 5.86\% |
| 4.12\% | 2,120 | 4.99\% | 8,065 | 21.13\% | 0 | 0.00\% | 5,890 | 8.45\% | 26,595 | 6.30\% |
| 7.76\% | 1,674 | 3.94\% | 3,330 | 8.72\% | 0 | 0.00\% | 5,195 | 7.45\% | 23,424 | 5.55\% |
| 8.87\% | 2,013 | 4.74\% | 6,235 | 16.33\% | 0 | 0.00\% | 1,980 | 2.84\% | 3,782 | 64\% |
| 3.74\% | 1,995 | \% | 3,029 | , 3 \% | 0 | .00 | 1,912 | 2.74\% | 12,215 | \% |
| \% | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 965 | 1.38\% | 1 | 1.21\% |
| 0.00\% | 25 | 0.06\% | 705 | 1.85 | 49 | 0.08\% | 147 | 0.21\% | 2,456 | 0.58\% |
| 0.00\% | 976 | 2.30\% | 663 | 1.74\% | 0 | 0.00\% | 2,890 | 4.14\% | 7,194 | 1.71\% |
| 17.53\% | 8,687 | 20.47\% | 4,146 | 10.86\% | 3,965 | 6.85\% | 13,033 | 18.69\% | 58,619 | 13.90\% |
| 41.73\% | 13,868 | 32.67\% | 4,190 | 10.98\% | 24,963 | 43.15\% | 18,522 | 26.56\% | 157,892 | 37.43\% |
| 7.87\% | 7,252 | 17.09\% | 3,003 | 7.87\% | 17,065 | 29.50\% | 6,228 | 8.93\% | 60,096 | 14.25\% |
| 100.00\% | 42,444 | 100.00\% | 38,175 | 100.00\% | 57,856 | 100.00\% | 69,737 | 100.00\% | 421,824 | 100.00\% |

Santa Teresa, NM (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \% \text { of the } \\ \text { Year } \end{gathered}$ | Number of Head | Monthly <br> $\%$ of the <br> Year | Number of Head | Monthly \% of the Year | Number of Head | Monthly $\%$ of the <br> Year | Number of Head | Monthly <br> $\%$ of the <br> Year | Number of Head | Monthly Monthly \% of the Year |
| 8.19\% | 23,258 | 7.11\% | 35,582 | 14.30\% | 22,814 | 12.78\% | 26,372 | 9.66\% | 190,007 | 7.78\% |
| 9.91\% | 32,102 | 9.81\% | 25,412 | 10.21\% | 36,810 | 20.62\% | 22,849 | 8.37\% | 245,220 | 10.04\% |
| 13.23\% | 39,437 | 12.05\% | 32,841 | 3.20\% | 33,986 | 19.04\% | 20,414 | 7.48\% | 03,918 | 12.45\% |
| 8.60\% | 25,676 | 7.85\% | 30,395 | 12.21\% | 105 | 0.06\% | 18,050 | 6.61\% | 207,945 | 8.52\% |
| 4.07\% | 25,735 | 7.86\% | 12,588 | 5.06\% | 0 | 0.00\% | 13,702 | 5.02\% | 137,928 | 5.65\% |
| 4.64\% | 7,192 | 2.20\% | 8,265 | 3.32\% | 0 | 0.00\% | 6,711 | 2.46\% | 79,608 | $3.26 \%$ |
| 1.24\% | 1,889 | 0.58\% | 3,806 | 1.53\% | 0 | 0.00\% | 6,506 | 2.38\% | 7,266 | . 33 |
| 0.42\% | 5,420 | 1.66\% | 2,781 | 1.12\% | 0 | 0.00\% | 8,854 | 3.24\% | 45,705 | .87\% |
| 1.93\% | 20,079 | 6.14\% | 4,187 | 1.68\% | 79 | 0.04\% | 16,329 | 5.98\% | 81,841 | 3.35\% |
| 10.60\% | 48,896 | 14.94\% | 20,978 | 8.43\% | 6,905 | 3.87\% | 40,968 | 15.01\% | 259,250 | 10.62\% |
| 25.04\% | 58,876 | 17.99\% | 43,92 | 17.65 | 42,438 | 23.77\% | 50,801 | 18.61\% | 531,980 | 21.79\% |
| 12.14\% | 38,714 | 11.83\% | 28,082 | 11.28\% | 35,400 | 19.83\% | 41,461 | 15.19\% | 320,698 | 13.14\% |
| 100.00\% | 327,274 | 100.00\% | 248,844 | 100.00\% | 178,537 | 100.00\% | 273,017 | 100.00\% | 2,441,366 | 100.00\% |

Del Rio, TX (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly $\%$ of the Year | Number of Head | Monthly \% of the Year | Number of Head | Monthly <br> $\%$ of the <br> Year | Number of Head | Monthly \% of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly \% of the Year |
| 9.19\% | 7,850 | .98\% | 14,732 | 12.10\% | 12,547 | 22.72\% | 4,210 | 3.67\% | 46 | .60\% |
| 11.94\% | 9,032 | 9.19\% | 11,609 | 9.53\% | 14,712 | 26.64\% | 6,878 | 6.00\% | 86,556 | 9.99\% |
| 10.98\% | 11,013 | 11.20\% | 13,839 | 11.37\% | 14,999 | 27.16\% | 6,119 | 5.34\% | 95,813 | 11.06\% |
| 7.97\% | 9,810 | 9.98\% | 15,621 | 12.83\% | 4,443 | 8.04\% | 4,146 | 3.62\% | 76,616 | 8.84\% |
| 6.01\% | 8,545 | 8.69\% | 11,107 | 9.12\% | 790 | 1.43\% | 10,912 | 9.52\% | 73,736 | 8.51\% |
| 5.42\% | 6,301 | 6.41\% | 6,932 | 5.69\% | 237 | 0.43\% | 8,553 | 7.46\% | 56,064 | 6.47\% |
| 4.68\% | 3,046 | 3.10\% | 4,859 | 3.99\% | 190 | 0.34\% | 4,701 | 4.10\% | 37,640 | 4.34\% |
| 3.39\% | 5,897 | 6.00\% | 8,382 | 6.88\% | 0 | 0.00\% | 6,396 | 5.58\% | 53,702 | 6.20\% |
| 6.21\% | 7,079 | 7.20\% | 6,087 | 5.00\% | 131 | 0.24\% | 8,076 | 7.04\% | 48,222 | 5.57\% |
| 8.94\% | 6,696 | 6.81\% | 7,732 | 6.35\% | 2,048 | 3.71\% | 17,109 | 14.92\% | 69,740 | 8.05\% |
| 13.68\% | 10,867 | 11.05\% | 11,949 | 9.81\% | 1,478 | 2.68\% | 18,081 | 15.77\% | 88,454 | 10.21\% |
| 11.60\% | 12,198 | 12.40\% | 8,915 | 7.32\% | 3,659 | 6.62\% | 19,469 | 16.98\% | 96,664 | 11.16\% |
| 100.00\% | 98,334 | $100.00 \%$ | 121,764 | 100.00\% | 55,234 | 100.00\% | 114,650 | 100.00\% | 866,353 | 100.00\% |

Eagle Pass, TX Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | Monthly <br> $\%$ of the <br> Year | Number of Head | Monthly <br> \% of the <br> Year | Numbe of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the <br> Year | Number of Head |
| Jan | 0 | .00\% | 12,977 | 9.35\% | 837 | 5.89\% | 2,339 | 9.84\% | , 708 | 5.21\% | 288 |
| Feb | 0 | .00\% | 20,937 | 15.09\% | 098 | 1.75\% | 2,074 | 8.73\% | 519 | 10.72\% | 5,561 |
| Mar | 0 | 0.00\% | 25, | . 30 | 2,310 | .94\% | , 95 | 6.71\% | 3,312 | 10.09\% | 4,085 |
| Apr | 371 | 0.81\% | 19,556 | 14.09\% | 1,820 | 10.19\% | 2,619 | 11.02\% | 3,665 | 11.17\% | 2,935 |
| May | 3,120 | 6.77\% | 14,893 | 10.73\% | 283 | 1.58\% | 1,646 | 6.93\% | 3,262 | 9.94\% | 2,398 |
| Jun | 2,593 | 5.63\% | 6,106 | 4.40\% | 100 | 0.56\% | 723 | 3.04\% | 1,581 | 4.82\% | 1,506 |
| Jul | 866 | 6.22\% | 317 | 2.39\% | 431 | 2.41\% | 1,122 | 4.72\% | 496 | 51 | 695 |
| Aug | 4,611 | 10.01\% | 7,900 | 5.69\% | 315 | .76\% | 2,194 | 9.23\% | 1,2 | 3.89\% | 1,499 |
| Sep | 7,509 | 16.31\% | 3,369 | 2.43\% | 563 | 3.15\% | 660 | 2.78\% | 1,173 | 3.57\% | 2,634 |
| Oct | 7,975 | 17.32\% | 6,755 | 4.87\% | 1,159 | 6.49\% | 2,343 | 9.86\% | 4,048 | 12.34\% | 4,462 |
| Nov | 9,024 | 19.59\% | 11,049 | 7.96\% | 2,555 | 14.31\% | 3,062 | 12.88\% | 4,728 | 14.41\% | 7,359 |
| Dec | 7,984 | 17.34\% | 6,527 | 4.70\% | 3,384 | 18.95\% | 3,389 | 14.26\% | 4,043 | 12.32\% | 8,680 |
| Total | 46,053 | 100.00\% | 138,779 | 100.00\% | 17,855 | 100.00\% | 23,766 | 100.00\% | 32,812 | 100.00\% | 45,102 |

Laredo, TX Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head |
| Jan | 12,049 | 11.78\% | 19,184 | 8.31\% | , 731 | 34.02\% | 2,078 | .22\% | 3,63 | 7.94\% | 2,218 |
| Feb | 9,779 | 9.56\% | 27,008 | 11.71\% | 2,301 | $11.63 \%$ | 5,518 | $13.87 \%$ | 4,720 | 10.31\% | 3,576 |
| Mar | 15,733 | 15.39\% | 36,184 | 15.68\% | 1,714 | 8.66\% | 1,268 | 3.19\% | 7,491 | 16.37\% | 7,998 |
| Apr | 18,239 | 17.84\% | 23,991 | 10.40\% | 2,381 | 12.04\% | 6,226 | 15.65\% | 8,82 | 19.28\% | 4,699 |
| May | 12,240 | 11.97\% | 26,752 | 11.59\% | 1,241 | 6.27\% | 4,500 | 11.31\% | 9,487 | 20.73\% | 3,206 |
| Jun | 6,397 | 6.26\% | 15,586 | 6.76\% | 297 | 1.50\% | 2,866 | 7.20\% | 3,977 | 8.69\% | 2,224 |
| Jul | 3,163 | 3.09\% | 10,038 | 4.35\% | 563 | 2.85\% | 2,531 | 6.36\% | 685 | 1.50\% | 2,121 |
| Aug | 08 | 5.39\% | 16,888 | 7.32\% | 113 | 0.57\% | 3,770 | 9.47\% | 661 | 1.44\% | 2,213 |
| Sep | 3,850 | 3.77\% | 8,506 | 3.69\% | 130 | 0.66\% | 3,466 | 8.71\% | 729 | 1.59\% | 2,475 |
| Oct | 4,006 | 3.92\% | 13,600 | 5.89\% | 551 | 2.79\% | 3,071 | 7.72\% | 1,626 | 3.55\% | 3,489 |
| Nov | 5,806 | 5.68\% | 18,928 | 8.20\% | 608 | 3.07\% | 1,262 | 3.17\% | 1,806 | 3.95\% | 4,910 |
| Dec | 5,474 | 5.35\% | 14,060 | 6.09\% | 3,153 | 15.94\% | 3,234 | 8.13\% | 2,130 | 4.65\% | 5,045 |
| Tota | 102,24 | 00\% | 230,725 | 100.00\% | 19,783 | 100.00 | 39,790 | 100.00 | 45,7 | 0.0 | 44,174 |

Presidio, TX Port of Entry Monthly Live Cattle Imports and Percentages (1994-2003)

|  | 1994 |  | 1995 |  | 1996 |  | 1997 |  | 1998 |  | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of Head | Monthly \% of the <br> Year | Number | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Numbe of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | Number |
| Jan | 0 | 0.00\% | 26,580 | 13.87\% | 6,036 | 14.69\% | 8,704 | 6.67\% | 19,144 | 15.42\% | 20,848 |
| Feb | 350 | 0.34\% | 29,994 | 15.65\% | 5,043 | 12.27\% | 11,380 | 8.72\% | 19,024 | 15.32\% | 25,748 |
| Mar | 17,968 | 17.53\% | 40,352 | 21.06\% | 2,504 | 6.09\% | 5,032 | 3.86\% | 18,956 | 15.27\% | 15,799 |
| Apr | 11,505 | 11.22\% | 21,379 | 11.16\% | 2,224 | 5.41\% | 8,996 | 6.89\% | 13,615 | 10.96\% | 7,116 |
| May | 1,993 | 1.94\% | 16,123 | 8.41\% | 408 | 0.99\% | 5,710 | 4.38\% | 3,365 | 2.71\% | 4,882 |
| Jun | 1,351 | 1.32\% | 4,195 | 2.19\% | 0 | 0.00\% | 6,194 | 4.75\% | 1,551 | 1.25\% | 5,206 |
| Jul | 1,523 | 1.49\% | . 602 | 4.49\% | 686 | 1.67\% | 4,945 | 3.79\% | 509 | 0.41\% | 2,298 |
| Aug | 4,129 | 4.03\% | ,44 | $28 \%$ | 0 | 0.00\% | 5,586 | 4.28\% | 0 | . 00 | 1,004 |
| Sep | 4,307 | 4.20\% | 1,185 | 0.62\% | 0 | 0.00\% | 5,587 | 4.28\% | 1,825 | 1.47\% | 6,070 |
| Oct | 13,870 | 13.53\% | 7,701 | 4.02\% | 0 | 0.00\% | 21,122 | 16.18\% | 14,914 | 12.01\% | 22,287 |
| Nov | 23,744 | 23.16\% | 18,567 | 9.69\% | 11,953 | 29.09\% | 30,047 | 23.02\% | 31,071 | 25.02\% | 39,784 |
| Dec | 21,780 | 21.24\% | 14,506 | 7.57\% | 12,241 | 29.79\% | 17,206 | 13.18\% | 196 | 0.16\% | 22,091 |
| Total | 102,50 | 100.00\% | 191,628 | 100.00\% | 41,095 | 100.00\% | 130,509 | 100.00\% | 124,170 | 100.00\% | 173,133 |

Eagle Pass, TX (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly $\%$ of the <br> Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the <br> Year | Number of Head | Monthly <br> \% of the <br> Year | Number of Head | Monthly <br> \% of the <br> Year | Number of Head | Monthly \% of the Year |
| 7.29 | 4,750 | 9.23 | 5,209 | 12.13\% | 5,417 | 12.89\% | ,606 | 7.57\% | 42,131 | 8.63\% |
| 12.33\% | 4,808 | 9.35\% | 3,465 | 8.07\% | 3,586 | 8.54\% | 3,600 | 7.56\% | 49,648 | 10.17\% |
| .06\% | 5,994 | 11.65\% | 509 | 8.17\% | ,082 | 12.10\% | 2,619 | 5.50\% | 53,89 | 11.04\% |
| 6.51\% | 5,260 | 10.23\% | 4,855 | 11.30\% | 3,296 | 7.85\% | 3,674 | 7.72\% | 48,051 | 9.84 |
| 5.32\% | 3,838 | 7.46\% | 2,892 | 6.73\% | 2,208 | 5.26\% | 2,248 | 4.72\% | 36,788 | 7.53\% |
| 3.34\% | 1,562 | 3.04\% | 1,725 | 4.02\% | 1,031 | 2.45\% | 1,365 | 2.87\% | 18,292 | 3.75\% |
| 1.54\% | ,465 | 2.85\% | 2,081 | 4.85\% | 2,272 | 5.41\% | 1,649 | 3.46 | 16,394 | 3.36 |
| 3.32\% | 3,090 | 6.01\% | 3,358 | 7.82\% | 1,904 | 4.53\% | 1,31 | 2.77\% | 27,466 | 5.62\% |
| 5.84\% | 2,686 | 5.22\% | 3,021 | 7.03\% | 2,547 | 6.06\% | 2,855 | 6.00\% | 27,017 | 5.53\% |
| 9.89\% | 7,219 | 14.03\% | 3,864 | 9.00\% | 4,155 | 9.89\% | 5,317 | 11.17\% | 47,297 | 9.68\% |
| 16.32\% | 5,136 | 99\% | 4,773 | 11.11\% | ,625 | 13.39\% | ,103 | 17.02\% | 61,414 | 12.57\% |
| 19.25\% | 5,629 | 10.94\% | 4,199 | 9.78\% | 4,887 | 11.63\% | 11,264 | 23.65\% | 59,986 | 12.28\% |
| 100.00\% | 51,437 | 100.00\% | 42,951 | 100.00\% | 42,010 | 100.00\% | 47,618 | 100.00\% | 488,383 | 100.00\% |

Laredo, TX (Continued)

| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly $\%$ of the Year | Number of Head | Monthly $\%$ of the Year | $\begin{aligned} & \text { Number } \\ & \text { of Head } \end{aligned}$ | $\begin{aligned} & \text { Monthly } \\ & \text { \% of the } \\ & \text { Year } \end{aligned}$ | Number of Head | Monthly $\%$ of the Year | Numbe of Head | Monthly $\%$ of the Year | Number of Heads | Monthly \% of the Year |
| 5.02\% | 7,050 | 7.20\% | 17,071 | 14.64\% | 7,914 | 20.01\% | 4,129 | 6.07\% | 82,056 | 10.20\% |
| 8.10\% | 8,838 | 9.03\% | 17,402 | 14.92\% | 11,478 | 29.02\% | 3,567 | 5.24\% | 94,187 | 11.71\% |
| 18.11\% | 11,249 | 11.50\% | 17,472 | 14.98\% | 9,854 | 24.91\% | 6,417 | 9.43\% | 115,380 | 14.34\% |
| 10.64\% | 9,663 | 9.87\% | 16,052 | 13.77\% | 2,543 | 6.43\% | 3,851 | 5.66\% | 96,470 | 11.99\% |
| 7.26\% | 12,554 | 12.83\% | 9,557 | 8.20\% | 195 | 0.49\% | 7,781 | 11.44\% | 87,513 | 10.88\% |
| 5.03\% | 5,128 | 5.24\% | 5,391 | 4.62\% | 16 | 0.04\% | 3,280 | 4.82\% | 45,162 | 5.61\% |
| 4.80\% | 5,087 | 5.20\% | 4,676 | 4.01\% | 0 | 0.00\% | 4,003 | 5.88\% | 32,867 | 4.09\% |
| 5.01\% | 8,757 | 8.95\% | 7,131 | 6.12\% | 0 | 0.00\% | 1,620 | 2.38\% | 46,661 | 5.80\% |
| 5.60\% | 5,529 | 5.65\% | 5,347 | 4.59\% | 314 | 0.79\% | 4,098 | 6.02\% | 34,444 | 4.28\% |
| 7.90\% | 6,902 | 7.05\% | 7,483 | 6.42\% | 1,073 | 2.71\% | 9,226 | 13.56\% | 51,027 | 6.34\% |
| 11.12\% | 8,681 | 8.87\% | 5,005 | 4.29\% | 801 | 2.03\% | 7,908 | 11.62\% | 55,715 | 6.93\% |
| 11.42\% | 8,420 | 8.60\% | 4,019 | 3.45\% | 5,366 | 13.57\% | 12,163 | 17.88\% | 63,064 | 7.84\% |
| 100.00\% | 97,858 | 100.00\% | 116,606 | 100.00\% | 39,554 | 100.00\% | 68,043 | 100.00\% | 804,546 | 100.00\% |


| 1999 | 2000 |  | 2001 |  | 2002 |  | 2003 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly <br> $\%$ of the Year | Number of Head | Monthly <br> $\%$ of the <br> Year | Number of Head | Monthly <br> $\%$ of the Year | Number of Head | Monthly \% of the Year | Number of Head | Monthly $\%$ of the Year | Number of Head | Monthly \% of the Year |
| 12.04\% | 25,520 | 10.15\% | 24,768 | 10.86\% | 28,152 | 17.94\% | 25,901 | 9.93\% | 185,653 | 11.18\% |
| 14.87\% | 21,318 | 8.48 | 28,008 | 2.28\% | 9,043 | 24.88 | 22,11 | 8.48\% | 20,027 | 12.17\% |
| 9.13\% | 24,476 | 9.73\% | 29,942 | 13.12\% | 41,882 | 26.69\% | 25,471 | 9.77\% | 222,382 | 13.39\% |
| 4.11\% | 22,163 | 8.81\% | 36,050 | 15.80\% | 613 | 0.39\% | 20,863 | 8.00\% | 144,524 | 8.70\% |
| 2.82\% | 21,278 | 8.46\% | 14,539 | 6.37\% | 0 | 0.00\% | 18,911 | 7.25\% | 87,209 | 5.25\% |
| $3.01 \%$ | 359 | 3.32\% | 589 | 3.76\% | 0 | 0.00\% | 8,240 | 3.16\% | 43,685 | 2.63\% |
| 1.33\% | 3,048 | 1.21\% | 4,172 | 1.83\% | 0 | 0.00\% | 7,448 | 2.86\% | 33,231 | 2.00\% |
| 0.58\% | 6,078 | 2.42\% | 4,444 | 1.95\% | 0 | 0.00\% | 7,138 | 2.74\% | 30,823 | 1.86\% |
| 3.51\% | 18,725 | 7.45\% | 5,741 | 2.52\% | 0 | 0.00\% | 16,950 | 6.50\% | 60,390 | 3.64\% |
| 12.87\% | 22,251 | 8.85\% | 20,301 | 8.90\% | 1,026 | 0.65\% | 32,801 | 12.58\% | 156,273 | 9.41\% |
| 22.98\% | 42,998 | 17.10\% | 26,770 | 11.73\% | 18,279 | 11.65\% | 37,147 | 14.25\% | 280,360 | 16.89\% |
| 12.76\% | 35,217 | 14.01\% | 24,822 | 10.88\% | 27,948 | 17.81\% | 37,760 | 14.48\% | 213,767 | 12.88\% |
| 100.00\% | 251,431 | 100.00\% | 228,146 | 100.00\% | 156,943 | 100.00\% | 260,749 | 100.00\% | 1,660,324 | 100.00\% |

## APPENDIX B-INDEPENDENT VARIABLES

| $\begin{array}{\|l} \frac{4}{z} \\ \frac{2}{n} \\ \frac{2}{4} \end{array}$ |  <br>  |
| :---: | :---: |
|  |  <br>  |
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| $\begin{aligned} & n \\ & \frac{2}{2} \\ & \frac{2}{2} \\ & \hline \end{aligned}$ |  <br>  |
| $\left\lvert\, \begin{aligned} & \underline{y} \\ & \underline{U} \\ & \frac{Z}{Z} \\ & \frac{1}{2} \end{aligned}\right.$ |  <br>  |
| $\underset{\sim}{2}$ |  |
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| $\underset{\approx}{\approx}$ | O-a |
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| $\left\|\begin{array}{c} \mathrm{y} \\ \underset{Q}{4} \end{array}\right\|$ |  <br>  |


|  |  <br>  |
| :---: | :---: |
| $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 2 \\ & 2 \\ & 2 \end{aligned}$ |  <br>  |
|  |  <br>  |
| $\begin{aligned} & n \\ & \substack{2 \\ 2 \\ 2 \\ 2} \end{aligned}$ |  <br>  |
| $\left\|\begin{array}{c} \frac{1}{2} \\ 0 \\ 2 \\ 2 \\ 2 \end{array}\right\|$ |  <br>  |
| $\cong$ |  |
|  |  <br>  |
| $\left\|\begin{array}{c} \tilde{n} \\ 0 \\ 0 \\ 0 \\ \frac{2}{c} \\ \hline \end{array}\right\|$ |  <br>  |
| , |  <br>  |



APPENDIX C-CHARTS OF INDEPENDENT VARIABLES


Price Ratio of U.S. Cattle Price to Mexican Cattle Price (1994-2003)


Rainfall in Chihuahua, MX (1994-2003)


Rainfall in Durango, MX (1994-2003)


Rainfall in Coahuila, MX (1994-2003)


Rainfall in Sonora, MX (1994-2003)


Rainfall in Sinaloa, MX (1994-2003)


[^0]:    ${ }^{1}$ This report was prepared by Christie Guinn, B.S., in partial fulfillments of requirements for the Master of Agriculture-Agribusiness degree. The report was prepared under the direction of Dr. Rhonda Skaggs, Professor, Department of Agricultural Economics and Agricultural Business, New Mexico State University. This publication was prepared with financial support from a U.S. Department of Agriculture Economic Research Service cooperative agreement and the New Mexico Agricultural Experiment Station.

