Division of Measurement Standards<br>DMS NOTICE<br>8500 Fruitridge Road<br>QC-01-2<br>Sacramento, California 95826-4808

April 24, 2001
Discard: Retain

## TO WEIGHTS AND MEASURES OFFICIALS

## SUBJECT: Statewide Automated Checkstand (Scanner) Survey

The 2000 statewide scanner survey was completed in October. This was a follow-up to our 1998 survey and allows us to evaluate the changes in compliance conditions that have occurred during the previous two years. Your assistance in participating in this survey is very much appreciated. Using county staff to perform the inspections proves to be especially efficient, allowing the survey to be completed within a short period of time.

The results of the survey show that of the 14,684 items purchased, $2.0 \%$ were overcharged and $2.3 \%$ were undercharged. An aggregate algebraic undercharge amounted to $0.61 \%$ of the dollars spent. Of the 490 stores inspected, $91.4 \%$ either had no overcharges or were determined to be in the "level one" category (see Table 3). Except for a $1.5 \%$ increase in the "Level Two" category, this represents an improvement of conditions from the 1998 survey, in which $2.2 \%$ of the items were overcharged, $2.0 \%$ were undercharged, the aggregate algebraic undercharge was $0.17 \%$ of the dollars spent, and $92.6 \%$ of the stores inspected either had no overcharges or were determined to be in the "level one" category.

The attachment outlines the survey criteria and displays the survey results, by type of store, along with a comparison to the results of the 1992, 1994, 1996 and 1998 surveys.

Please review the attached report and contact Brett Saum, Program Supervisor, Measurement Compliance, at (916) 229-3047 if you have any questions.

Sincerely,

[^0]Attachments

## DIVISION OF MEASUREMENT STANDARDS STATEWIDE AUTOMATED CHECKSTAND (SCANNER) SURVEY

A statewide survey of establishments using automated pricing (scanner) systems was conducted throughout the state between September 5 and October 6, 2000.

## Scope of Survey

Establishments surveyed included both food and nonfood retail stores with centralized checkstands using a device to scan a code or a coded entry to determine sales price.

## Sample Selection

Five hundred (500) establishments were selected at random from a statewide population of approximately 10,900 establishments.

## Inspection Procedure

Thirty (30) items were randomly selected from each establishment. Approximately half of the items selected were sale items, price reduced or "special buys", including manufacturers' reduced price items, in-store specials or markdowns. After selecting the sample, the items were run through the automated pricing system (scanner) and the prices charged for the items were compared with the advertised, quoted, posted or marked prices. If the price charged for an item was more than the lowest of the advertised, quoted, posted or marked price, it was determined that an overcharge existed. If the price charged was less than the lowest of the advertised, quoted, posted or marked price, it was determined that an undercharge existed. If the price charged equaled the lowest of the advertised, quoted, posted or marked price, it was determined that no error existed.

## Survey Results

The following tables, summarize the survey results in comparison to the 1992, 1994, 1996, and 1998 surveys. These results may be useful for county weights and measures officials in determining which areas of the marketplace to focus enforcement activity.

TABLE 1

| TYPE OF STORE |  | NUMBER OF ITEMS INSPECTED | OVERCHARGES |  | UNDERCHARGES |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number of Items | $\begin{gathered} \% \\ \text { of Items } \end{gathered}$ | Number of Items | $\begin{gathered} \% \\ \text { of Items } \end{gathered}$ |
| Food | 2000 | 5607 | 99 | 1.8 | 59 | 1.1 |
|  | 1998 | 4955 | 104 | 2.1 | 57 | 1.2 |
|  | 1996 | 3816 | 77 | 2.0 | 49 | 1.3 |
|  | 1994 | 3210 | 44 | 1.4 | 29 | 0.9 |
|  | 1992 | 4741 | 100 | 2.1 | 49 | 1.0 |
| Nonfood: Auto Supply | 2000 | 1256 | 24 | 1.9 | 39 | 3.1 |
|  | 1998 | 1594 | 29 | 1.8 | 25 | 1.6 |
|  | 1996 | 990 | 22 | 2.2 | 10 | 1.0 |
|  | 1994 | 1230 | 37 | 3.0 | 19 | 1.5 |
|  | 1992 | 780 | 33 | 4.2 | 34 | 4.4 |
| Building Supply | 2000 | 899 | 40 | 4.5 | 36 | 4.0 |
|  | 1998 | 598 | 20 | 3.3 | 15 | 2.5 |
|  | 1996 | 270 | 7 | 2.7 | 7 | 2.6 |
|  | 1994 | 390 | 18 | 4.6 | 13 | 3.3 |
|  | 1992 | 600 | 16 | 2.7 | 9 | 1.5 |
| Discount/Variety | 2000 | 899 | 10 | 1.1 | 34 | 3.8 |
|  | 1998 | 752 | 14 | 1.9 | 23 | 3.1 |
|  | 1996 | 930 | 21 | 2.3 | 14 | 1.5 |
|  | 1994 | 870 | 19 | 2.2 | 16 | 1.8 |
|  | 1992 | 958 | 16 | 1.7 | 18 | 1.9 |
| Drug | 2000 | 2339 | 31 | 1.3 | 48 | 2.1 |
|  | 1998 | 2972 | 82 | 2.8 | 56 | 1.9 |
|  | 1996 | 1620 | 35 | 2.2 | 20 | 1.2 |
|  | 1994 | 2220 | 43 | 1.9 | 27 | 1.2 |
|  | 1992 | 1591 | 48 | 3.0 | 30 | 1.9 |
| Miscellaneous | 2000 | 3684 | 90 | 2.4 | 126 | 3.4 |
|  | 1998 | 4112 | 78 | 1.9 | 131 | 3.2 |
|  | 1996 | 1380 | 40 | 2.9 | 31 | 2.2 |
|  | 1994 | 1080 | 16 | 1.5 | 11 | 1.0 |
|  | 1992 | 329 | 13 | 4.0 | 6 | 1.8 |
| Nonfood Total | 2000 | 9077 | 195 | 2.2 | 283 | 3.1 |
|  | 1998 | 10028 | 223 | 2.2 | 250 | 2.5 |
|  | 1996 | 5190 | 125 | 2.4 | 82 | 1.6 |
|  | 1994 | 5790 | 133 | 2.3 | 86 | 1.5 |
|  | 1992 | 4258 | 126 | 3.0 | 97 | 2.3 |
| GRAND TOTAL | 2000 | 14684 | 294 | 2.0 | 342 | 2.3 |
|  | 1998 | 14983 | 327 | 2.2 | 307 | 2.0 |
|  | 1996 | 9006 | 202 | 2.2 | 131 | 1.5 |
|  | 1994 | 9000 | 177 | 2.0 | 115 | 1.3 |
|  | 1992 | 8999 | 226 | 2.5 | 146 | 1.6 |

TABLE 2

| TYPE OF STORE |  | \$ SALES | \$ ALGEBRAIC OVERCHARGE* | \% ALGEBRAIC OVERCHARGE* |
| :---: | :---: | :---: | :---: | :---: |
| Food | 2000 | 18,844.18 | 35.72 | 0.19 |
|  | 1998 | 15,448.54 | 11.54 | 0.07 |
|  | 1996 | 10,880.46 | 32.07 | 0.29 |
|  | 1994 | 8,953.68 | 6.40 | 0.07 |
|  | 1992 | 12,329.00 | 39.12 | 0.32 |
| Nonfood: Auto Supply | 2000 | 9,660.29 | <54.36> | <0.56> |
|  | 1998 | 12,941.15 | 4.77 | 0.04 |
|  | 1996 | 7,096.02 | 11.93 | 0.17 |
|  | 1994 | 7,881.58 | 39.92 | 0.51 |
|  | 1992 | 5,559.46 | 10.38 | 0.19 |
| Building Supply | 2000 | 10,637.71 | <22.98> | <0.22> |
|  | 1998 | 9,351.42 | 4.43 | 0.05 |
|  | 1996 | 2,867.79 | <0.06> | 0.00 |
|  | 1994 | 2,596.98 | 16.24 | 0.63 |
|  | 1992 | 7,610.61 | 1.84 | 0.02 |
| Discount/Variety | 2000 | 11,524.10 | <35.67> | <0.31> |
|  | 1998 | 6,899.02 | <42.97> | <0.62> |
|  | 1996 | 7,643.72 | 5.26 | 0.07 |
|  | 1994 | 6,821.83 | <20.89> | <0.31> |
|  | 1992 | 7,215.10 | <20.07> | <0.28> |
| Drug | 2000 | 11,743.70 | <11.19> | <0.10> |
|  | 1998 | 19,293.71 | <32.85> | <0.17> |
|  | 1996 | 7,190.79 | 34.49 | 0.48 |
|  | 1994 | 9,620.43 | 16.68 | 0.17 |
|  | 1992 | 7,179.08 | 43.86 | 0.61 |
| Miscellaneous | 2000 | 56,218.33 | <632.15> | <1.12> |
|  | 1998 | 76,730.84 | <188.90> | <0.25> |
|  | 1996 | 21,492.79 | 44.55 | 0.21 |
|  | 1994 | 22,733.55 | 23.64 | 0.10 |
|  | 1992 | 3,645.65 | 6.98 | 0.19 |
| Nonfood Total | 2000 | 99,784.13 | <756.35> | <0.76> |
|  | 1998 | 125,216.14 | <255.60> | <0.20> |
|  | 1996 | 46,291.11 | 96.17 | 0.21 |
|  | 1994 | 49,654.55 | 75.59 | 0.15 |
|  | 1992 | 31,209.90 | 42.99 | 0.14 |
| GRAND TOTAL | 2000 | 118,628.31 | <720.63> | <0.61> |
|  | 1998 | 140,664.68 | <244.07> | <0.17> |
|  | 1996 | 57,171.57 | 128.24 | 0.22 |
|  | 1994 | 58,608.23 | 81.99 | 0.14 |
|  | 1992 | 43,538.90 | 82.11 | 0.19 |

[^1]
## STATEWIDE SCANNING SURVEY

 COMPARED TO STATE ENFORCEMENT ACTION POINTS TABLE 3| TYPE OF STORE |  | NUMBER OF STORES INSPECTED | NO OVERCHARGES |  | LEVEL ONE |  | LEVEL TWO |  | LEVEL THREE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | \# of Stores | $\begin{aligned} & \text { \% of } \\ & \text { Stores } \end{aligned}$ | \# of Stores | $\begin{gathered} \% \text { of } \\ \text { Stores } \end{gathered}$ | \# of Stores | \% of Stores | $\begin{array}{\|c\|} \hline \text { \# of } \\ \text { Stores } \end{array}$ | \% of Stores |
| Food | 2000 | 187 | 119 | 63.6 | 55 | 29.4 | 9 | 4.8 | 4 | 2.2 |
|  | 1998 | 165 | 104 | 63.0 | 50 | 30.3 | 8 | 4.8 | 3 | 1.8 |
|  | 1996 | 127 | 81 | 63.8 | 35 | 27.6 | 5 | 3.9 | 6 | 4.7 |
|  | 1994 | 107 | 70 | 65.4 | 35 | 32.7 | 2 | 1.9 | 0 | 0.0 |
|  | 1992 | 158 | 99 | 62.7 | 48 | 30.4 | 7 | 4.4 | 4 | 2.5 |
| Nonfood: Auto Supply | 2000 | 42 | 26 | 61.9 | 13 | 31.0 | 3 | 7.1 | 0 | 0.0 |
|  | 1998 | 53 | 34 | 64.2 | 16 | 30.2 | 3 | 5.7 | 0 | 0.0 |
|  | 1996 | 33 | 17 | 51.5 | 14 | 42.4 | 2 | 6.1 | 0 | 0.0 |
|  | 1994 | 41 | 18 | 43.9 | 14 | 34.1 | 7 | 17.1 | 2 | 4.9 |
|  | 1992 | 26 | 9 | 34.6 | 12 | 46.2 | 3 | 11.5 | 2 | 7.7 |
| Building Supply | 2000 | 30 | 14 | 46.7 | 10 | 33.3 | 3 | 10.0 | 3 | 10.0 |
|  | 1998 | 20 | 10 | 50.0 | 8 | 40.0 | 1 | 5.0 | 1 | 5.0 |
|  | 1996 | 9 | 6 | 66.7 | 2 | 22.2 | 0 | 0.0 | 1 | 11.1 |
|  | 1994 | 13 | 3 | 23.1 | 7 | 53.8 | 2 | 15.4 | 1 | 7.7 |
|  | 1992 | 20 | 10 | 50.0 | 9 | 45.0 | 1 | 5.0 | 0 | 0.0 |
| Discount/Variety | 2000 | 30 | 21 | 70.0 | 8 | 26.7 | 1 | 3.3 | 0 | 0 |
|  | 1998 | 25 | 13 | 52.0 | 12 | 48.0 | 0 | 0.0 | 0 | 0.0 |
|  | 1996 | 31 | 20 | 64.5 | 7 | 22.6 | 2 | 6.5 | 2 | 6.5 |
|  | 1994 | 29 | 20 | 69.0 | 5 | 17.2 | 3 | 10.3 | 1 | 3.4 |
|  | 1992 | 32 | 19 | 59.4 | 12 | 37.5 | 1 | 3.1 | 0 | 0.0 |
| Drug | 2000 | 78 | 54 | 69.2 | 16 | 20.5 | 5 | 6.4 | 3 | 3.9 |
|  | 1998 | 99 | 50 | 50.5 | 37 | 37.4 | 4 | 4.0 | 8 | 8.1 |
|  | 1996 | 54 | 34 | 63.0 | 14 | 25.9 | 3 | 5.6 | 3 | 5.6 |
|  | 1994 | 74 | 43 | 58.1 | 27 | 36.5 | 2 | 2.7 | 2 | 2.7 |
|  | 1992 | 53 | 23 | 43.4 | 22 | 41.5 | 5 | 9.4 | 3 | 5.7 |
| Miscellaneous | 2000 | 123 | 73 | 59.3 | 39 | 31.7 | 6 | 4.9 | 5 | 4.1 |
|  | 1998 | 137 | 91 | 66.4 | 37 | 27.0 | 4 | 2.9 | 5 | 3.6 |
|  | 1996 | 46 | 27 | 58.7 | 11 | 23.9 | 4 | 8.7 | 4 | 8.7 |
|  | 1994 | 36 | 25 | 69.4 | 7 | 19.4 | 2 | 5.6 | 2 | 5.6 |
|  | 1992 | 11 | 5 | 45.5 | 4 | 36.4 | 2 | 18.2 | 0 | 0.0 |
| Nonfood Total | 2000 | 303 | 188 | 62.1 | 86 | 28.4 | 18 | 5.9 | 11 | 3.6 |
|  | 1998 | 334 | 198 | 59.3 | 110 | 32.9 | 12 | 3.6 | 14 | 4.2 |
|  | 1996 | 173 | 104 | 60.1 | 48 | 27.7 | 11 | 6.4 | 10 | 5.8 |
|  | 1994 | 193 | 109 | 56.5 | 60 | 31.1 | 16 | 8.3 | 8 | 4.1 |
|  | 1992 | 142 | 66 | 46.5 | 59 | 41.5 | 12 | 8.5 | 5 | 3.5 |
| GRAND TOTAL | 2000 | 490 | 307 | 62.6 | 141 | 28.8 | 27 | 5.5 | 15 | 3.1 |
|  | 1998 | 499 | 302 | 60.5 | 160 | 32.1 | 20 | 4.0 | 17 | 3.4 |
|  | 1996 | 300 | 185 | 61.7 | 83 | 27.7 | 16 | 5.3 | 16 | 5.3 |
|  | 1994 | 300 | 179 | 59.7 | 95 | 31.7 | 18 | 6.0 | 8 | 2.7 |
|  | 1992 | 300 | 165 | 55.0 | 107 | 35.7 | 19 | 6.3 | 9 | 3.0 |

# STATEWIDE SCANNING SURVEY COMPARED TO STATE ENFORCEMENT ACTION POINTS 

## TABLE 3

LEVEL ONE: One or two overcharges (less than $10 \%$ of items inspected) and the total algebraic overcharge (total $\$$ value of overcharges minus total $\$$ value of undercharges) is less than $2 \%$ of the correct total price. This is considered to be a minor violation, usually resulting in a Notice of Violation being issued and the establishment remaining on its current inspection frequency.

LEVEL TWO: Three overcharges ( $10 \%$ up to but not including $12 \%$ of items inspected), or the total algebraic overcharge is $2 \%$ or more but less than $4 \%$ of the correct total price. This is considered to be a significant violation, usually resulting in a Notice of Violation being issued and the establishment being subject to more frequent inspections.

If the establishment is already on an increased frequency as a result of previous violations, additional enforcement action such as being issued a Notice to Appear (court citation) is appropriate.

LEVEL THREE: Four or more overcharges ( $12 \%$ or more of items inspected), or the total algebraic overcharge is $4 \%$ or more of the correct total price, or if the violation is willful or grossly negligent. This is considered to be a serious violation, usually resulting in enforcement action such as being issued a Notice to Appear (court citation) and being subject to more frequent inspections.


[^0]:    Mike Cleary
    Director
    (916) 229-3000

[^1]:    * Algebraic overcharge equals total overcharge minus total undercharge.

