Business Analytics Data Analysis and Decision Making 6th Edition Albright Solutions Manual

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Business Analytics: Data Analysis and Decision Making, 6e CHAPTER 2: Describing the Distribution of a Single Variable

Answers to Conceptual Questions

Note to Instructors: Student answers will vary. The responses here are intended to provide general guidance in terms of concepts that could be discussed.

- C.1. The relevant population consists of all people (adults?) in the U.S. who would consider flying commercially. This might be discovered by a survey of a lot of people (several thousand?) that first asks whether they ever have flown or might fly in the future and then asks whether the fear of terrorist attacks would change their minds. Only the people responding "Yes" to the first question would remain in the sample for analyzing the second question.
- C.2. The "number of children" is a count, so this is a discrete data type.
- C.3. A histogram is typically relevant only for a continuous variable that is binned into discrete categories, so it isn't relevant here. But a column chart of counts in states *is* relevant, and it's a close relative to a histogram.
- C.4. Depending on the difficulty of the exam, the shape could easily be skewed to the left, with the students who didn't study comprising the long left tail. But it could also be symmetric or even skewed to the right, with a few "brains" comprising the long right tail.
- C.5. This should be a time series graph, which is really a scatterplot of the number of air conditioner sales versus time, with the "dots" connected.
- C.6. The mean will be larger than the median, maybe considerably larger. This is because the large incomes in the right tail pull up the average, but they have no effect on the median.
- C.7. This is true only if the distribution, or at least the middle 50% of it, is reasonably symmetric. If it's skewed to the right, say, the median will be closer to the 1st quartile than to the 3rd quartile. This is often clear in boxplots, where the median is *not* in the middle of the box.
- C.8. The standard deviation, like the mean, is highly sensitive to outliers. Remember that in the definition of standard deviation, deviations from the mean are squared, so outliers on either side can really increase the standard deviation. As stated in the book, an accepted procedure when outliers are clearly present is to report measures such as the standard deviation with the outliers and without them.
- C.9. There are basically two indications: (1) the median will be about in the middle of the box, indicating that the middle 50% of the distribution is symmetric, and (2) the lines (whiskers) and outliers on either side of the box will be similar, indicating that the more extreme observations are distributed about the same on the low side as on the high side.
- C.10. It all depends. If these two salaries correspond to employees who are somehow outside the population of interest, such as top executives, it is fine to delete them. But if they aren't, then they shouldn't be deleted. For example, they might reveal a "shady" company salary policy and hence could represent the most interesting finding of the study.

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This is the actual composition of the 2008 and 2009 incoming MBA classes at the Kelley School of Business at IU. Names have been omitted for confidentiality.

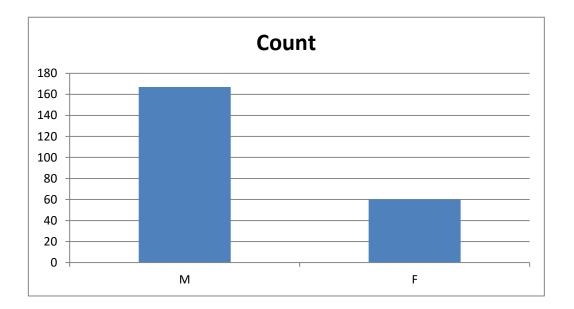
| Student | Gender | Nationality | Gender | Count | Pct of total |
|---------|--------|-------------|--------------------|-------|--------------|
| 1 | Μ | USA | Μ | 167 | 73.6% |
| 2 | Μ | USA | F | 60 | 26.4% |
| 3 | Μ | India | | | |
| 4 | F | India | Nationality | Count | Pct of total |
| 5 | Μ | USA | Austria | 1 | 0.4% |
| 6 | F | USA | Brazil | 2 | 0.9% |
| 7 | Μ | USA | Canada | 1 | 0.4% |
| 8 | Μ | USA | China | 14 | 6.2% |
| 9 | Μ | USA | Croatia | 1 | 0.4% |
| 10 | Μ | India | Dominican Republic | 1 | 0.4% |
| 11 | Μ | India | Ecuador | 1 | 0.4% |
| 12 | Μ | USA | India | 46 | 20.3% |
| 13 | Μ | USA | Italy | 1 | 0.4% |
| 14 | F | USA | Japan | 4 | 1.8% |
| 15 | Μ | India | Kazakhstan | 1 | 0.4% |
| 16 | F | Thailand | Mexico | 2 | 0.9% |
| 17 | Μ | USA | Nigeria | 2 | 0.9% |
| 18 | Μ | USA | Pakistan | 1 | 0.4% |
| 19 | F | USA | Peru | 1 | 0.4% |
| 20 | Μ | USA | South Korea | 13 | 5.7% |
| 21 | Μ | USA | Taiwan | 5 | 2.2% |
| 22 | Μ | USA | Thailand | 2 | 0.9% |
| 23 | Μ | USA | USA | 128 | 56.4% |
| 24 | Μ | USA | | | |
| 25 | Μ | South Korea | Nationality | | Pct of total |
| 26 | F | China | China | 14 | 6.2% |
| 27 | F | China | India | 46 | 20.3% |
| 28 | Μ | China | Japan | 4 | 1.8% |
| 29 | Μ | USA | South Korea | 13 | 5.7% |
| 30 | M | South Korea | Taiwan | 5 | 2.2% |
| 31 | F | South Korea | USA | 128 | 56.4% |
| 32 | F | China | Other | 17 | 7.5% |
| 33 | Μ | Brazil | | | |
| 34 | М | USA | | | |
| 35 | М | Brazil | | | |
| 36 | F | USA | | | |
| 37 | M | USA | | | |
| 38 | F | USA | | | |
| 39 | M | India | | | |
| 40 | M | USA | | | |
| 41 | M | USA | | | |
| 42 | M | USA | | | |
| 43 | M | USA | | | |
| 44 | M | USA | | | |
| 45 | F | USA | | | |
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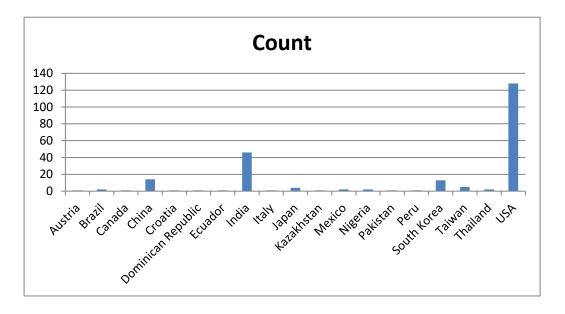
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| 56 | F | USA |
| 57 | M | USA |
| 58 | F | USA |
| 59 | M | USA |
| 60 | Μ | Italy |
| 61 | Μ | Austria |
| 62 | F | USA |
| 63 | F | India |
| 64 | Μ | USA |
| 65 | F | USA |
| 66 | Μ | India |
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| 68 | F | India |
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| 70 | Μ | USA |
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| 72 | F | USA |
| 73 | M | USA |
| 74 | F | Mexico |
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| 76 | M | India |
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| 78 | M | China |
| 79 | M | Taiwan |
| 80 | F | USA |
| 81 | M | USA |
| 82 | M | Nigeria |
| 83 | Μ | USA |
| 84 | Μ | India |
| 85 | F | Croatia |
| 86 | Μ | India |
| 87 | F | USA |
| 88 | Μ | South Korea |
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| 90 | F | USA |
| 91 | Μ | Japan |
| 92 | F | USA |
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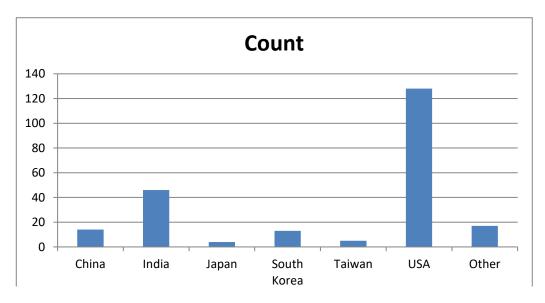
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| 95 | M | South Korea |
| 96 | M | Nigeria |
| 97 | M | India |
| 98 | M | India |
| 99 | M | India |
| 100 | M | India |
| 101 | M | USA |
| 102 | M | USA |
| 103 | M | South Korea |
| 104 | М | South Korea |
| 105 | М | South Korea |
| 106 | М | South Korea |
| 107 | F | Peru |
| 108 | М | USA |
| 109 | F | USA |
| 110 | F | USA |
| 111 | F | USA |
| 112 | F | USA |
| 113 | F | India |
| 114 | М | India |
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| 117 | Μ | USA |
| 118 | Μ | USA |
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| 124 | F | USA |
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| 126 | М | India |
| 127 | Μ | Kazakhstan |
| 128 | М | India |
| 129 | М | USA |
| 130 | М | USA |
| 131 | Μ | USA |
| 132 | М | USA |
| 133 | M | USA |
| 134 | M | USA |
| 135 | F | Taiwan |
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| 137 | M | USA |
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| 146 | F | India |
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| 148 | F | India |
| 149 | Μ | Pakistan |
| 150 | Μ | USA |
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| 153 | Μ | USA |
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| 156 | Μ | USA |
| 157 | Μ | India |
| 158 | Μ | USA |
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| 160 | Μ | USA |
| 161 | Μ | USA |
| 162 | Μ | USA |
| 163 | Μ | Ecuador |
| 164 | F | Japan |
| 165 | F | USA |
| 166 | F | USA |
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| 168 | Μ | USA |
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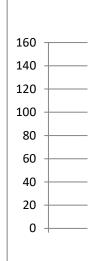
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| 199 | Μ | India |
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| 201 | Μ | Mexico |
| 202 | Μ | USA |
| 203 | Μ | USA |
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| 205 | Μ | India |
| 206 | Μ | Canada |
| 207 | Μ | USA |
| 208 | Μ | USA |
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| 211 | Μ | USA |
| 212 | Μ | USA |
| 213 | F | USA |
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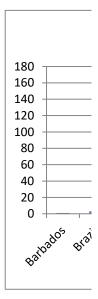


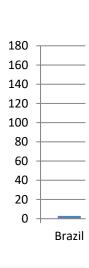




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| 22FUSAChina104.4%23MUSAIndia2912.8%24MUSAJapan31.3%25MIndiaSouth Korea125.3%26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSAUSA15568.6%29MUSAOther94.0%30MUSAUSA1008 (and a corresponding decrease of females in 2009 than in 2008, and (2) there is a higher percentage of ISA students in 2009 than in 2008 (and a corresponding decrease in the percentage of Asian students).38MUSAJapan1440MUSAJapan1541MUSAJapanJapanJapan43MUSAJapanJapanJapan44MUSAJapanJapanJapan45MUSAJapanJapanJapan45MUSAJapanJapanJapan45MUSAJapanJapanJapan45MUSAJapanJapanJapan45MUSAJapanJapanJapan45MUSAJapanJapanJapan45MUSAJapanJapanJapan45MUSAJapan </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> | | | | | - | | |
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| 24MUSAJapan31.3%25MIndiaSouth Korea125.3%26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSAUSA15768.6%30MUSAUSA15768.6%31MOthar094.0%32FTaiwan51009 that in 2008, and (2) there is a higher percentage of females in 2009 than in 2009 than in 2009 than in 2008 (and a corresponding decrease in the percentage of Asian students).33MUSA1008 (and a corresponding decrease in the percentage of Asian students).36MSouth Korea1008 (and a corresponding decrease in the percentage of Asian students).38MUSA15539MUSA15541MUSA15542FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 25MIndiaSouth Korea125.3%26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSASouth Korea94.0%30MUSAFTaiwan51231MChinaProbably the two most notable differences are that (1) there is a higher percentage of females in 2009 than in 2008, and (2) there is a higher percentage of USA students in 2009 than in 2008 (and a corresponding decrease in the percentage of Asian students).36MSouth Korea37FUSA38MUSA40MUSA41M43M44M44M45M45M | | | | | | | |
| 26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSAProbably the two most notable differences are that (1) there is a higher percentage of females in 2009 than in 2008, and (2) there is a higher percentage of USA students in 2009 than in 2008 (and a corresponding decrease in the percentage of Asian students).36MUSA37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | • | | |
| 27MUSAUSA15568.6%28FChinaOther94.0%29MUSA094.0%30MUSA94.0%30MUSA15568.6%31MUSA94.0%32FTaiwanhigher percentage of females in 2009 than in 2008, and (2) there is a higher percentage of USA students in 2009 than in 2008 (and a corresponding decrease in the percentage of Asian students).36MSouth Korea37FUSA38MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 28FChinaOther94.0%29MUSA30MUSA30MChina31MChina32FTaiwan33MUSA34MSouth Korea35FUSA36MSouth Korea37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 29MUSA30MUSA31MChina31MChina32FTaiwan33MUSA34MSouth Korea35FUSA36MSouth Korea37FUSA38MUSA39MUSA41MUSA43MUSA44MUSA45MUSA | | | | | | | |
| 30MUSA31MChina32FTaiwan33MUSA33MUSA34MSouth Korea35FUSA36MSouth Korea37FUSA38MUSA39MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 31MChina32FTaiwan33MUSA34MSouth Korea35FUSA36MSouth Korea37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 32FTaiwan33MUSA34MSouth Korea35FUSA36MSouth Korea37FUSA38MUSA39MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | • | | |
| 33MUSA34MSouth Korea35FUSA36MSouth Korea37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | • | - |
| 34MSouth Korea35FUSA36MSouth Korea37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | - |
| 35FUSA36MSouth Korea37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | - | | |
| 36MSouth Korea37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | • | • | ease in the |
| 37FUSA38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | perce | andge of Asidii stut | ients). | |
| 38MUSA39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | _ | |
| 39MUSA40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 40MUSA41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 41MUSA42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 42FIndia43MUSA44MUSA45MUSA | | | | | | | |
| 43 M USA 44 M USA 45 M USA | | | | | | | |
| 44 M USA 45 M USA | | | | | | | |
| 45 M USA | | | | | | | |
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| | 40 | i . | UJA | | | | |





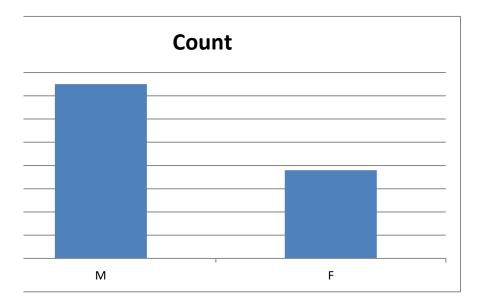


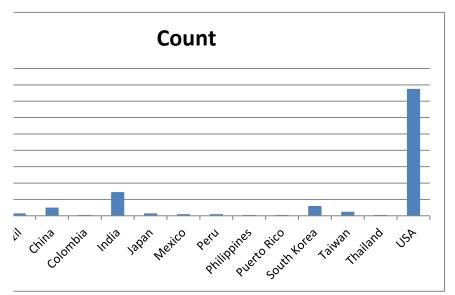
| 47 | Μ | India | |
|----|---|----------|--|
| 48 | М | India | |
| 49 | F | USA | |
| 50 | F | USA | |
| 51 | F | USA | |
| 52 | М | USA | |
| 53 | Μ | Peru | |
| 54 | F | USA | |
| 55 | М | USA | |
| 56 | М | USA | |
| 57 | F | USA | |
| 58 | М | USA | |
| 59 | F | USA | |
| 60 | М | USA | |
| 61 | F | USA | |
| 62 | М | USA | |
| 63 | F | India | |
| 64 | F | USA | |
| 65 | М | USA | |
| 66 | F | USA | |
| 67 | М | USA | |
| 68 | М | USA | |
| 69 | М | China | |
| 70 | М | USA | |
| 71 | М | Brazil | |
| 72 | F | Brazil | |
| 73 | F | USA | |
| 74 | М | USA | |
| 75 | М | USA | |
| 76 | М | USA | |
| 77 | М | Japan | |
| 78 | F | China | |
| 79 | М | USA | |
| 80 | М | Mexico | |
| 81 | F | USA | |
| 82 | М | USA | |
| 83 | М | USA | |
| 84 | М | USA | |
| 85 | F | USA | |
| 86 | F | Taiwan | |
| 87 | F | Taiwan | |
| 88 | М | USA | |
| 89 | М | Barbados | |
| 90 | М | USA | |
| 91 | М | India | |
| 92 | F | USA | |
| 93 | М | USA | |
| | | | |

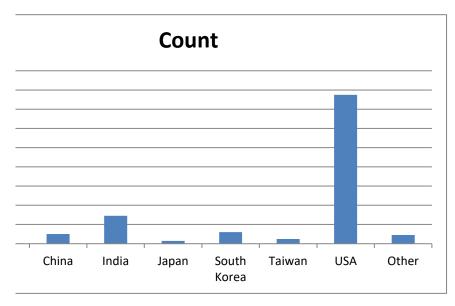
| 94 | М | South Korea |
|-----|---|-------------|
| 95 | М | USA |
| 96 | М | USA |
| 97 | М | USA |
| 98 | М | USA |
| 99 | F | USA |
| 100 | F | USA |
| 101 | М | India |
| 102 | Μ | India |
| 103 | F | USA |
| 104 | Μ | USA |
| 105 | Μ | India |
| 106 | Μ | South Korea |
| 107 | Μ | USA |
| 108 | Μ | USA |
| 109 | Μ | South Korea |
| 110 | Μ | USA |
| 111 | Μ | USA |
| 112 | F | India |
| 113 | Μ | USA |
| 114 | Μ | India |
| 115 | F | South Korea |
| 116 | Μ | South Korea |
| 117 | Μ | South Korea |
| 118 | Μ | South Korea |
| 119 | F | USA |
| 120 | Μ | China |
| 121 | F | USA |
| 122 | F | Taiwan |
| 123 | Μ | USA |
| 124 | F | USA |
| 125 | Μ | USA |
| 126 | Μ | USA |
| 127 | Μ | USA |
| 128 | F | China |
| 129 | Μ | USA |
| 130 | F | Puerto Rico |
| 131 | F | India |
| 132 | Μ | USA |
| 133 | Μ | USA |
| 134 | Μ | USA |
| 135 | М | USA |
| 136 | F | USA |
| 137 | М | USA |
| 138 | М | USA |
| 139 | F | USA |
| 140 | М | USA |
| | | |

| 141 | F | India |
|-----|---|-------------|
| 142 | F | India |
| 143 | F | USA |
| 144 | М | USA |
| 145 | Μ | Colombia |
| 146 | Μ | USA |
| 147 | F | Mexico |
| 148 | Μ | USA |
| 149 | Μ | South Korea |
| 150 | F | USA |
| 151 | F | USA |
| 152 | Μ | USA |
| 153 | F | USA |
| 154 | Μ | USA |
| 155 | Μ | USA |
| 156 | Μ | USA |
| 157 | F | Thailand |
| 158 | F | USA |
| 159 | F | USA |
| 160 | F | USA |
| 161 | Μ | USA |
| 162 | F | India |
| 163 | Μ | USA |
| 164 | F | India |
| 165 | Μ | India |
| 166 | F | USA |
| 167 | F | USA |
| 168 | Μ | India |
| 169 | Μ | USA |
| 170 | Μ | Peru |
| 171 | Μ | South Korea |
| 172 | Μ | USA |
| 173 | F | USA |
| 174 | Μ | Philippines |
| 175 | Μ | Japan |
| 176 | Μ | USA |
| 177 | Μ | USA |
| 178 | Μ | USA |
| 179 | Μ | China |
| 180 | Μ | China |
| 181 | M | USA |
| 182 | M | USA |
| 183 | M | India |
| 184 | M | India |
| 185 | F | USA |
| 186 | M | USA |
| 187 | Μ | USA |
| | | |

| 188 | Μ | USA |
|-----|---|-------------|
| 189 | Μ | USA |
| 190 | М | India |
| 191 | F | USA |
| 192 | М | USA |
| 193 | F | USA |
| 194 | М | USA |
| 195 | Μ | USA |
| 196 | Μ | USA |
| 197 | Μ | USA |
| 198 | F | USA |
| 199 | Μ | USA |
| 200 | F | South Korea |
| 201 | Μ | India |
| 202 | Μ | Japan |
| 203 | Μ | USA |
| 204 | Μ | USA |
| 205 | Μ | USA |
| 206 | Μ | USA |
| 207 | Μ | USA |
| 208 | F | Taiwan |
| 209 | Μ | India |
| 210 | F | USA |
| 211 | F | USA |
| 212 | F | USA |
| 213 | Μ | India |
| 214 | F | USA |
| 215 | Μ | India |
| 216 | F | USA |
| 217 | F | USA |
| 218 | Μ | USA |
| 219 | F | USA |
| 220 | F | USA |
| 221 | Μ | USA |
| 222 | F | China |
| 223 | М | USA |
| 224 | F | USA |
| 225 | М | China |
| 226 | Μ | USA |







The Numbers

I wrote some macros to manipulate the data into the form shown here.

| Index | Movie |
|-------|--|
| 1 | The Texas Chainsaw Massacre: The Beginning |
| 2 | Year of the Dog |
| 3 | <u>War</u> |
| 4 | Stomp the Yard |
| 5 | The Illusionist |
| 6 | Pirates of the Caribbean: At World's End |
| 7 | <u>Sicko</u> |
| 8 | <u>Babel</u> |
| 9 | <u>Ghost Rider</u> |
| 10 | Saw III |
| 11 | World Trade Center |
| 12 | <u>Beerfest</u> I |
| 13 | Ocean's Thirteen |
| 14 | Amazing Grace t |
| 15 | Shrek the Third |
| 16 | The Holiday S |
| 17 | Deck the Halls |
| 18 | The Namesake |
| 19 | <u>Déjà Vu</u> |
| 20 | Running With Scissors |
| 21 | <u>Ratatouille</u> |
| 22 | The Hills Have Eyes II |
| 23 | Fast Food Nation |
| 24 | Nancy Drew |
| 25 | 28 Weeks Later |
| 26 | The Condemned |
| 27 | Employee of the Month |
| 28 | Man of the Year |
| 29 | The Bourne Ultimatum |
| 30 | <u>All the King's Men</u> |
| 31 | <u>Turistas</u> |
| 32 | I Now Pronounce You Chuck and Larry |
| 33 | Fantastic Four: Rise of the Silver Surfer |
| 34 | The Nativity Story |
| 35 | Thank You For Smoking |
| 36 | Casino Royale |
| 37 | <u>Miami Vice</u> |
| 38 | The Transformers |
| 39 | Unaccompanied Minors |
| 40 | Hannibal Rising |
| 41 | Pride |
| 42 | The Ant Bully |
| 43 | Surf's Up |
| 44 | Material Girls |
| 45 | Daddy Day Camp |
| 46 | <u>Pulse</u> |

Distributor

New Line Paramount Vantage Lionsgate Sony Pictures Freestyle Releasing Buena Vista Weinstein Co. Paramount Vantage Sony Pictures Lionsgate

I did the recoding manually, by sorting on Distributor, say, and finding values with co than 20.

See the tables of counts and charts to the

Fox Searchlight Buena Vista Sony Pictures Buena Vista Fox Searchlight Fox Searchlight Warner Bros. 20th Century Fox Lionsgate Lionsgate Universal Universal Sony Pictures 20th Century Fox Universal 20th Century Fox New Line Fox Searchlight MGM Universal **Paramount Pictures** Warner Bros. Weinstein Co. Lionsgate Warner Bros. Sony Pictures MGM Sony Pictures

Weinstein/Dimension

47 Vacancy 48 TMNT 49 Invincible 50 **Flyboys** 51 Mr. Brooks 52 Sunshine 53 The Fountain 54 **Clerks II** 55 Pan's Labyrinth 56 John Tucker Must Die 57 Little Man 58 Hot Fuzz 59 Norbit 60 Superbad 61 Spider-Man 3 62 Next 63 Superman Returns 64 X-Men: The Last Stand 65 The Queen 66 The Descent 67 Perfect Stranger 68 Freedom Writers 69 The Ex 70 Are We Done Yet? 71 Waitress 72 Georgia Rule 73 Iraq in Fragments 74 Lady in the Water 75 Once 76 Disturbia 77 Balls of Fury 78 **Idiocracy** 79 Hot Rod 80 Ice Age: The Meltdown 81 The Covenant **Barnyard: The Original Party Animals** 82 83 Day Watch 84 How to Eat Fried Worms 85 Everyone's Hero 86 The Marine 87 School for Scoundrels 88 **Black Christmas** 89 The Devil Wears Prada 90 **The Nanny Diaries** 91 **Blood Diamond** 92 Reign Over Me 93 The Black Dahlia

Sony/Screen Gems Weinstein Co. **Buena Vista** MGM MGM Fox Searchlight Warner Bros. MGM **PictureHouse** 20th Century Fox Sony Pictures **Focus Features Paramount Pictures** Sony Pictures Sony Pictures Sony Pictures Warner Bros. 20th Century Fox Miramax Lionsgate **Sony Pictures Paramount Pictures** Weinstein Co. Sony Pictures Fox Searchlight Universal **Typecast Releasing** Warner Bros. Fox Searchlight **Paramount Pictures Focus Features** 20th Century Fox **Paramount Pictures** 20th Century Fox Sony/Screen Gems **Paramount Pictures** Fox Searchlight New Line 20th Century Fox 20th Century Fox Weinstein Co. Miramax/Dimension 20th Century Fox Weinstein Co. Warner Bros. Sony Pictures Universal

| 0.4 | |
|------------|--|
| 94 95 | Reno 911!: Miami |
| | Live Free or Die Hard |
| 96 07 | Trust the Man |
| 97 08 | The Wicker Man |
| 98 | The Astronaut Farmer |
| 99 100 | Tenacious D in: The Pick of Destiny |
| 100 101 | Pirates of the Caribbean: Dead Man's Chest Smokin' Aces |
| 101 | License to Wed |
| 102 | Grindhouse |
| 105 | Pathfinder |
| 104 | The Simpsons Movie |
| 105 | Operation Homecoming |
| 100 | The Omen |
| 107 | Catch and Release |
| 108 | Away From Her |
| 110 | Knocked Up |
| 111 | Jet Li's Fearless |
| 112 | The Guardian |
| 113 | Water |
| 114 | Accepted |
| 115 | Music and Lyrics |
| 116 | You, Me and Dupree |
| 117 | Eragon |
| 118 | Primeval |
| 119 | Night at the Museum |
| 120 | Evan Almighty |
| 121 | Black Snake Moan |
| 122 | No Reservations |
| 123 | Meet the Robinsons |
| 124 | <u>A Good Year</u> |
| 125 | One Night with the King |
| 126 | Hostel: Part II |
| 127 | Stranger Than Fiction |
| 128 | We Are Marshall |
| 129 | Rush Hour 3 |
| 130 | <u>Flicka</u> |
| 131 | <u>Dreamgirls</u> |
| 132 | Children of Men |
| 133 | <u>Bobby</u> |
| 134 | <u>Underdog</u> |
| 135 | Flushed Away |
| 136 | <u>Jackass: Number Two</u> |
| 137 | <u>Confetti</u> |
| 138 | The Invisible |
| 139 | <u>Borat</u> |
| 140 | Wild Hogs |
| | |

20th Century Fox 20th Century Fox Fox Searchlight Warner Bros. Warner Bros. New Line Buena Vista Universal Warner Bros. Weinstein/Dimension 20th Century Fox 20th Century Fox The Documentary Group 20th Century Fox Sony Pictures Lionsgate Universal Focus/Rogue Pictures Buena Vista Fox Searchlight Universal Warner Bros. Universal 20th Century Fox Buena Vista 20th Century Fox Universal Paramount Vantage Warner Bros. Buena Vista 20th Century Fox **Rocky Mountain Pictures** Lionsgate Sony Pictures Warner Bros. New Line 20th Century Fox **Paramount Pictures** Universal Weinstein Co. Buena Vista **Dreamworks SKG Paramount Pictures** Fox Searchlight Buena Vista 20th Century Fox **Buena Vista**

141 The Grudge 2 142 **Evening** 143 The Invasion The Good Shepherd 144 145 La Vie en Rose 146 Fracture 147 **Monster House** 148 Zoom 149 Lucky You 150 1408 151 Bridge to Terabithia 152 Apocalypto 153 Bratz 154 My Super Ex-Girlfriend 155 Bug 156 The Prestige 157 Stardust 158 Happy Feet 159 Alpha Dog 160 **Epic Movie** 161 Blades of Glory 162 **Dead Silence** 163 Delta Farce 164 The Messengers 165 I Know Who Killed Me 166 Who's Your Caddy? 167 Notes on a Scandal 168 I Think I Love My Wife 169 Charlotte's Web 170 The Last Kiss 171 **Because I Said So** 172 Unconscious 173 Shooter 174 **Gridiron Gang** 175 Hairspray 176 **Zodiac** 177 In the Land of Women 178 Premonition 179 **Becoming Jane** The Protector 180 181 Crank 182 The Hitcher 183 The History Boys 184 Gracie 185 **Firehouse Dog** The Santa Clause 3: The Escape Clause 186 187 Step Up

Sony Pictures **Focus Features** Warner Bros. Universal PictureHouse New Line **Sony Pictures** Sony Pictures Warner Bros. Miramax/Dimension **Buena Vista** Buena Vista Lionsgate 20th Century Fox Lionsgate **Buena Vista Paramount Pictures** Warner Bros. Universal 20th Century Fox **Paramount Pictures** Universal Lionsgate Sony Pictures Sony/TriStar MGM Fox Searchlight Fox Searchlight **Paramount Pictures Paramount Pictures** Universal **Regent Releasing Paramount Pictures** Sony Pictures New Line **Paramount Pictures** Warner Independent Pictures Sony Pictures Miramax Weinstein Co. Lionsgate **Focus Features** Fox Searchlight PictureHouse 20th Century Fox **Buena Vista Buena Vista**

| 188 | <u>Open Season</u> | Sony Pictures |
|-----|---|-------------------|
| 189 | The Last Mimzy | New Line |
| 190 | The Reaping | Warner Bros. |
| 191 | Talladega Nights: The Ballad of Ricky Bobby | Sony Pictures |
| 192 | <u>Hollywoodland</u> | Focus Features |
| 193 | Rocky Balboa | MGM |
| 194 | A Mighty Heart | Paramount Vantage |
| 195 | <u>Mr. Bean's Holiday</u> | Universal |
| 196 | <u>Joshua</u> | Fox Searchlight |
| 197 | Flags of Our Fathers | Dreamworks SKG |
| 198 | Little Miss Sunshine | Fox Searchlight |
| 199 | Garfield's A Tail of Two Kitties | 20th Century Fox |
| 200 | Letters from Iwo Jima | Dreamworks SKG |
| 201 | Daddy's Little Girls | Lionsgate |
| 202 | Harry Potter and the Order of the Phoenix | Warner Bros. |
| 203 | Marie-Antoinette | Sony Pictures |
| 204 | The Departed | Warner Bros. |
| 205 | <u>Snakes on a Plane</u> | New Line |
| 206 | <u>Breach</u> | Universal |
| 207 | The Last King of Scotland | Fox Searchlight |
| 208 | <u>300</u> | Warner Bros. |
| 209 | The Pursuit of Happyness | Sony Pictures |
| 210 | The Number 23 | New Line |
| 211 | Arctic Tale | Paramount Vantage |

| Recoded Dis | stributor | Genre | Recoded Genre | 7-day Gross | 14-day Gross |
|--------------|-----------|-------------------|-------------------|---------------|---------------|
| New Line | | Horror | Horror | \$22,707,121 | \$32,109,139 |
| Other | | Drama | Drama | \$141,803 | \$318,598 |
| Lionsgate | | Action | Action | \$12,839,402 | |
| Sony Picture | es | Drama | Drama | \$28,263,594 | \$42,853,277 |
| Other | | Drama | Drama | | |
| Buena Vista | | Adventure | Adventure | \$173,339,068 | \$232,297,818 |
| Other | | Documentary | Other | | |
| Other | | Drama | Drama | | |
| Sony Picture | 25 | Action | Action | \$58,960,097 | \$83,257,376 |
| Lionsgate | | Horror | Horror | \$44,576,835 | \$63,279,443 |
| | Pictures | Drama | Drama | | |
| | | Comedy | Comedy | \$10,151,951 | \$15,786,241 |
| ounts less | | Adventure | Adventure | \$50,705,336 | \$79,668,309 |
| | | Drama | Drama | \$5,200,372 | |
| ui alat | ctures | Adventure | Adventure | \$150,338,458 | \$227,906,792 |
| right. | | Romantic Comedy | Other | \$17,110,339 | \$30,092,962 |
| | Fox | Comedy | Comedy | | |
| Fox Searchli | ght | Drama | Drama | \$361,518 | \$1,333,480 |
| Buena Vista | | Thriller/Suspense | Thriller/Suspense | | |
| Sony Picture | 25 | Comedy | Comedy | | \$3,660,628 |
| Buena Vista | | Comedy | Comedy | \$80,517,305 | \$124,984,886 |
| Fox Searchli | - | Horror | Horror | \$11,883,609 | \$17,579,582 |
| Fox Searchli | - | Drama | Drama | \$580,363 | \$853,713 |
| Warner Bros | | Thriller/Suspense | Thriller/Suspense | \$11,687,594 | \$19,334,739 |
| 20th Centur | y Fox | Horror | Horror | \$13,460,756 | \$21,121,250 |
| Lionsgate | | Action | Action | \$4,947,445 | \$6,769,217 |
| Lionsgate | | Comedy | Comedy | \$14,310,416 | \$21,038,727 |
| Universal | | Comedy | Comedy | \$15,480,880 | \$24,146,540 |
| Universal | | Action | Action | \$98,673,300 | \$144,820,320 |
| Sony Picture | | Drama | Drama | \$4,686,955 | |
| 20th Centur | y Fox | Thriller/Suspense | Thriller/Suspense | \$4,540,030 | \$6,437,413 |
| Universal | _ | Comedy | Comedy | \$52,547,115 | \$81,169,105 |
| 20th Centur | y Fox | Action | Action | \$77,453,559 | \$105,800,808 |
| New Line | | Drama | Drama | \$10,239,000 | \$18,373,000 |
| Fox Searchli | ght | Black Comedy | Other | | * |
| Other | | Action | Action | \$63,267,784 | \$100,763,154 |
| Universal | | Action | Action | \$36,056,785 | \$50,564,950 |
| Paramount l | | Action | Action | | \$228,950,080 |
| Warner Bros | 5. | Comedy | Comedy | \$6,547,915 | 624457240 |
| Other | | Thriller/Suspense | Thriller/Suspense | \$16,662,340 | \$24,157,310 |
| Lionsgate | _ | Drama | Drama | \$4,295,317 | 620 640 757 |
| Warner Bros | | Adventure | Adventure | \$14,260,551 | \$20,610,757 |
| Sony Picture | 25 | Adventure | Adventure | \$25,370,697 | \$40,612,980 |
| Other | | Comedy | Comedy | \$6,190,228 | |
| Sony Picture | 25 | Comedy | Comedy | 611 170 000 | 61C 330 FOO |
| Other | | Horror | Horror | \$11,176,099 | \$16,228,598 |

| Other | Thriller/Suspense | Thriller/Suspense | \$9,667,558 | \$14,985,909 |
|--------------------|-------------------|-------------------|------------------|---------------|
| Other | Action | Action | \$29,268,284 | \$41,781,886 |
| Buena Vista | Drama | Drama | \$22,640,843 | \$39,870,508 |
| Other | Drama | Drama | \$7,595,128 | \$10,794,574 |
| Other | Thriller/Suspense | Thriller/Suspense | \$13,682,301 | \$20,621,219 |
| Fox Searchlight | Thriller/Suspense | Thriller/Suspense | \$362,501 | \$2,235,239 |
| Warner Bros. | Drama | Drama | <i>+••=</i>)••= | +_,, |
| Other | Comedy | Comedy | | \$20,987,916 |
| Other | Horror | Horror | | |
| 20th Century Fox | Comedy | Comedy | \$22,572,760 | \$32,751,462 |
| Sony Pictures | , Comedy | , Comedy | , | |
| Other | , Comedy | , Comedy | \$7,724,188 | \$14,090,753 |
| Paramount Pictures | Comedy | Comedy | \$42,082,178 | \$64,938,373 |
| Sony Pictures | Comedy | Comedy | \$50,572,274 | \$76,834,795 |
| Sony Pictures | Adventure | Adventure | \$182,070,572 | \$253,357,629 |
| Sony Pictures | Action | Action | \$9,066,641 | \$13,000,019 |
| Warner Bros. | Adventure | Adventure | | |
| 20th Century Fox | Action | Action | | |
| Other | Drama | Drama | | |
| Lionsgate | Thriller/Suspense | Thriller/Suspense | \$12,927,112 | \$19,882,850 |
| Sony Pictures | Thriller/Suspense | Thriller/Suspense | \$13,968,118 | \$19,418,295 |
| Paramount Pictures | Drama | Drama | \$11,323,827 | \$21,317,621 |
| Other | Romantic Comedy | Other | \$1,944,838 | |
| Sony Pictures | Comedy | Comedy | | |
| Fox Searchlight | Drama | Drama | | |
| Universal | Drama | Drama | \$9,121,575 | \$14,424,970 |
| Other | Documentary | Other | | |
| Warner Bros. | Drama | Drama | | \$35,922,083 |
| Fox Searchlight | Drama | Drama | | |
| Paramount Pictures | Thriller/Suspense | Thriller/Suspense | \$27,194,364 | \$43,085,763 |
| Other | Comedy | Comedy | | |
| 20th Century Fox | Comedy | Comedy | \$234,596 | \$351,327 |
| Paramount Pictures | Comedy | Comedy | \$8,792,476 | \$12,534,240 |
| 20th Century Fox | Adventure | Adventure | | |
| Other | Thriller/Suspense | Thriller/Suspense | \$11,013,531 | \$17,004,815 |
| Paramount Pictures | Comedy | Comedy | \$24,016,098 | \$38,506,651 |
| Fox Searchlight | Action | Action | \$68,234 | \$166,581 |
| New Line | Drama | Drama | \$5,571,313 | |
| 20th Century Fox | Adventure | Adventure | \$6,844,371 | \$12,125,203 |
| 20th Century Fox | Action | Action | \$8,822,674 | \$13,555,127 |
| Other | Comedy | Comedy | \$10,554,778 | \$15,065,677 |
| Other | Horror | Horror | | |
| 20th Century Fox | Comedy | Comedy | | |
| Other | Comedy | Comedy | \$10,151,376 | 1 |
| Warner Bros. | Action | Action | \$12,119,786 | \$22,002,750 |
| Sony Pictures | Drama | Drama | \$9,630,847 | \$14,896,332 |
| Universal | Thriller/Suspense | Thriller/Suspense | \$12,820,690 | \$18,613,540 |

| 20th Century Fox | Comedy | Comedy | \$12,662,896 | \$17,729,833 |
|--------------------|-------------------|-------------------|----------------------|---------------|
| 20th Century Fox | Action | Action | <i>\\\\\\\\\\\\\</i> | \$88,674,537 |
| Fox Searchlight | Comedy | Comedy | \$255,827 | \$655,122 |
| Warner Bros. | Thriller/Suspense | Thriller/Suspense | \$13,371,125 | \$18,628,666 |
| Warner Bros. | Drama | Drama | \$5,580,399 | \$8,338,517 |
| New Line | Comedy | Comedy | , | .,,, |
| Buena Vista | , Adventure | , Adventure | | |
| Universal | Comedy | Comedy | \$18,630,955 | \$27,061,120 |
| Warner Bros. | Comedy | Comedy | | \$31,442,050 |
| Other | Horror | , Horror | \$15,460,828 | \$21,320,000 |
| 20th Century Fox | Adventure | Adventure | \$6,360,568 | \$8,895,535 |
| 20th Century Fox | Comedy | Comedy | \$102,949,705 | \$141,112,342 |
| Other | Documentary | Other | \$6,795 | |
| 20th Century Fox | Horror | Horror | | |
| Sony Pictures | Romantic Comedy | Other | \$9,311,010 | \$12,646,624 |
| Lionsgate | Drama | Drama | | |
| Universal | Romantic Comedy | Other | \$46,223,940 | \$75,946,815 |
| Other | Drama | Drama | \$13,083,004 | \$19,461,440 |
| Buena Vista | Action | Action | \$22,751,717 | \$35,265,924 |
| Fox Searchlight | Drama | Drama | | |
| Universal | Comedy | Comedy | \$14,641,880 | \$23,510,200 |
| Warner Bros. | Romantic Comedy | Other | | |
| Universal | Comedy | Comedy | | |
| 20th Century Fox | Adventure | Adventure | \$30,495,702 | \$48,213,849 |
| Buena Vista | Adventure | Adventure | \$7,716,473 | |
| 20th Century Fox | Comedy | Comedy | \$79,055,249 | \$140,096,754 |
| Universal | Comedy | Comedy | \$45,535,600 | \$69,987,650 |
| Other | Drama | Drama | \$5,410,053 | \$8,079,470 |
| Warner Bros. | Romantic Comedy | Other | \$17,586,828 | \$28,169,989 |
| Buena Vista | Adventure | Adventure | \$35,231,834 | \$59,900,752 |
| 20th Century Fox | Drama | Drama | \$4,799,687 | \$6,851,054 |
| Other | Drama | Drama | \$5,307,651 | |
| Lionsgate | Horror | Horror | \$11,191,000 | \$16,040,871 |
| Sony Pictures | Comedy | Comedy | \$16,300,147 | \$26,778,068 |
| Warner Bros. | Drama | Drama | \$17,038,381 | \$30,289,979 |
| New Line | Action | Action | \$66,323,168 | \$96,763,003 |
| 20th Century Fox | Drama | Drama | \$9,163,221 | \$14,900,036 |
| Paramount Pictures | Musical | Other | | \$22,964,345 |
| Universal | Adventure | Adventure | | |
| Other | Drama | Drama | \$1,242,622 | \$7,204,245 |
| Buena Vista | Adventure | Adventure | \$18,290,912 | \$28,078,697 |
| Other | Comedy | Comedy | \$23,220,769 | \$41,991,571 |
| Paramount Pictures | Comedy | Comedy | \$37,465,379 | \$56,293,371 |
| Fox Searchlight | Romantic Comedy | Other | \$29,623 | \$190,312 |
| Buena Vista | Thriller/Suspense | Thriller/Suspense | \$9,221,338 | \$13,343,836 |
| 20th Century Fox | Comedy | Comedy | \$38,841,865 | \$76,154,492 |
| Buena Vista | Comedy | Comedy | \$49,415,325 | \$85,167,997 |
| | | | | |

| Sony Pictures | Horror | Horror | \$23,680,202 | \$32,715,981 |
|--------------------|-------------------|-------------------|--------------|---------------|
| Other | Drama | Drama | 1 - , , - | \$9,668,000 |
| Warner Bros. | Thriller/Suspense | Thriller/Suspense | \$8,374,693 | \$12,611,955 |
| Universal | Drama | Drama | \$24,065,985 | \$41,897,680 |
| Other | Drama | Drama | | \$3,144,035 |
| New Line | Thriller/Suspense | Thriller/Suspense | \$14,260,545 | \$23,032,218 |
| Sony Pictures | Adventure | Adventure | | \$50,951,765 |
| Sony Pictures | Adventure | Adventure | \$6,607,544 | |
| Warner Bros. | Drama | Drama | \$3,622,974 | \$5,329,749 |
| Other | Horror | Horror | \$29,779,254 | \$46,649,346 |
| Buena Vista | Drama | Drama | \$32,648,034 | \$49,302,632 |
| Buena Vista | Adventure | Adventure | \$20,201,406 | \$31,724,156 |
| Lionsgate | Comedy | Comedy | \$6,146,369 | |
| 20th Century Fox | Comedy | Comedy | | \$19,118,663 |
| Lionsgate | Drama | Drama | \$4,871,655 | \$6,740,839 |
| Buena Vista | Thriller/Suspense | Thriller/Suspense | \$19,207,527 | \$31,630,273 |
| Paramount Pictures | Adventure | Adventure | \$13,842,551 | \$22,501,872 |
| Warner Bros. | Musical | Other | \$62,178,720 | \$103,955,600 |
| Universal | Drama | Drama | \$8,796,815 | |
| 20th Century Fox | Comedy | Comedy | \$21,143,563 | \$31,024,169 |
| Paramount Pictures | Comedy | Comedy | \$45,382,907 | \$76,130,018 |
| Universal | Horror | Horror | \$9,775,725 | \$14,145,450 |
| Lionsgate | Comedy | Comedy | \$4,285,912 | \$6,692,207 |
| Sony Pictures | Horror | Horror | \$17,524,018 | \$26,708,505 |
| Other | Thriller/Suspense | Thriller/Suspense | \$5,066,322 | |
| Other | Comedy | Comedy | \$3,711,337 | |
| Fox Searchlight | Drama | Drama | | |
| Fox Searchlight | Comedy | Comedy | \$7,279,181 | \$10,899,186 |
| Paramount Pictures | Drama | Drama | \$18,809,466 | \$40,857,817 |
| Paramount Pictures | Romantic Comedy | Other | \$5,936,292 | \$9,188,774 |
| Universal | Comedy | Comedy | \$16,584,590 | \$28,257,665 |
| Other | Comedy | Comedy | | |
| Paramount Pictures | Thriller/Suspense | Thriller/Suspense | \$19,211,919 | \$30,855,582 |
| Sony Pictures | Drama | Drama | \$17,501,040 | \$28,676,742 |
| New Line | Musical | Other | \$43,858,000 | \$69,629,420 |
| Paramount Pictures | Thriller/Suspense | Thriller/Suspense | \$16,954,103 | \$25,849,997 |
| Other | Comedy | Comedy | \$5,908,658 | \$9,308,837 |
| Sony Pictures | Thriller/Suspense | Thriller/Suspense | \$22,090,745 | \$34,242,317 |
| Other | Drama | Drama | | \$6,148,661 |
| Other | Action | Action | \$6,583,847 | \$9,940,816 |
| Lionsgate | Action | Action | \$15,058,504 | \$21,713,622 |
| Other | Thriller/Suspense | Thriller/Suspense | \$9,800,045 | |
| Fox Searchlight | Comedy | Comedy | | |
| Other | Drama | Drama | \$1,939,458 | |
| 20th Century Fox | Comedy | Comedy | | |
| Buena Vista | Comedy | Comedy | \$24,159,405 | \$43,401,458 |
| Buena Vista | Drama | Drama | \$29,580,830 | \$44,232,438 |
| | | | | |

| Sony Pictures | Adventure | Adventure | \$28,128,740 | \$48,154,270 |
|------------------|-------------------|-------------------|--------------|--|
| New Line | Adventure | Adventure | \$12,192,019 | \$17,318,613 |
| Warner Bros. | Horror | Horror | + / / | + _ : , = _ = , = _ = = |
| Sony Pictures | Comedy | Comedy | \$68,216,958 | \$100,585,876 |
| Other | Drama | Drama | \$7,799,599 | \$11,434,376 |
| Other | Drama | Drama | <i></i> | <i>+,,.</i> |
| Other | Drama | Drama | \$5,418,140 | \$7,757,609 |
| Universal | Comedy | Comedy | \$13,000,430 | <i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i> |
| Fox Searchlight | Thriller/Suspense | Thriller/Suspense | \$74,590 | \$400,745 |
| Other | Drama | Drama | \$13,576,213 | \$22,131,112 |
| Fox Searchlight | Comedy | Comedy | + | + |
| 20th Century Fox | Comedy | Comedy | | |
| Other | Drama | Drama | | |
| Lionsgate | Romantic Comedy | Other | | |
| Warner Bros. | Adventure , | Adventure | | \$217,083,411 |
| Sony Pictures | Drama | Drama | \$6,906,276 | \$10,733,964 |
| Warner Bros. | Drama | Drama | \$37,950,891 | \$63,472,929 |
| New Line | Thriller/Suspense | Thriller/Suspense | \$20,152,024 | \$28,601,000 |
| Universal | Thriller/Suspense | Thriller/Suspense | \$14,309,725 | \$21,938,345 |
| Fox Searchlight | Drama | Drama | | |
| Warner Bros. | Action | Action | \$96,288,328 | \$141,843,655 |
| Sony Pictures | Drama | Drama | \$38,286,895 | \$79,049,229 |
| , New Line | Thriller/Suspense | Thriller/Suspense | \$17,633,643 | \$26,321,000 |
| Other | Documentary | Other | | |
| | • | | | |

| Total US Gross | International Gross | US DVD Sales | Budget |
|----------------|---------------------|---------------|---------------|
| \$39,517,763 | \$11,000,000 | \$15,909,367 | \$16,000,000 |
| \$1,540,141 | | | |
| \$22,466,994 | \$18,200,000 | \$27,040,983 | \$25,000,000 |
| \$61,356,221 | \$15,000,000 | \$33,166,898 | \$14,000,000 |
| \$39,868,642 | \$44,407,533 | \$38,189,217 | \$16,500,000 |
| \$309,420,425 | \$651,576,067 | \$295,701,718 | \$300,000,000 |
| \$24,538,513 | \$9,000,000 | \$17,375,592 | \$9,000,000 |
| \$34,302,837 | \$101,000,000 | \$31,456,221 | \$20,000,000 |
| \$115,802,596 | \$121,900,000 | \$103,699,106 | \$120,000,000 |
| \$80,238,724 | \$83,638,091 | \$47,124,617 | \$10,000,000 |
| \$70,278,893 | \$93,000,000 | \$36,856,697 | \$65,000,000 |
| \$19,185,184 | \$974,132 | \$28,372,842 | |
| \$117,144,465 | \$194,600,000 | \$47,716,836 | \$85,000,000 |
| \$21,214,987 | \$6,771,432 | \$25,275,167 | |
| \$322,719,944 | \$476,238,218 | \$174,342,569 | \$160,000,000 |
| \$63,280,000 | \$141,910,324 | \$71,202,459 | \$85,000,000 |
| \$35,093,569 | \$12,137,501 | \$28,291,848 | |
| \$13,610,521 | \$6,569,588 | \$9,345,626 | |
| \$64,038,616 | \$117,000,000 | \$40,473,916 | \$80,000,000 |
| \$6,775,659 | \$437,970 | \$1,877,732 | \$12,000,000 |
| \$206,445,654 | \$418,000,000 | \$189,036,784 | \$150,000,000 |
| \$20,804,166 | \$16,662,372 | \$30,466,195 | \$15,000,000 |
| \$1,005,539 | | | |
| \$25,584,685 | \$5,000,000 | \$10,392,745 | |
| \$28,638,916 | \$35,599,524 | \$24,333,111 | |
| \$7,371,706 | | | |
| \$28,444,855 | \$9,672,863 | \$21,061,839 | \$10,000,000 |
| \$37,442,180 | | | |
| \$227,471,070 | \$214,690,492 | \$123,288,965 | \$130,000,000 |
| \$7,221,458 | \$2,300,000 | | \$55,000,000 |
| \$7,027,762 | \$7,293,308 | \$3,507,046 | \$10,000,000 |
| \$119,725,280 | \$65,983,182 | \$69,258,990 | \$85,000,000 |
| \$131,921,738 | \$156,293,581 | \$62,251,422 | \$120,000,000 |
| \$37,629,831 | \$8,802,433 | \$26,111,634 | \$35,000,000 |
| \$24,793,509 | \$14,438,702 | \$16,644,189 | \$7,500,000 |
| \$167,365,000 | \$429,000,000 | \$79,665,820 | \$102,000,000 |
| \$63,478,838 | \$100,339,718 | \$37,640,111 | \$135,000,000 |
| \$319,246,193 | \$389,026,399 | \$290,541,120 | \$151,000,000 |
| \$16,655,224 | \$5,293,990 | \$7,035,302 | \$25,000,000 |
| \$27,669,725 | \$52,913,586 | \$23,317,001 | \$50,000,000 |
| \$7,057,600 | · | 4 | 4 |
| \$28,142,535 | \$27,038,594 | \$28,487,251 | \$45,000,000 |
| \$58,867,694 | \$86,528,051 | \$46,067,803 | \$100,000,000 |
| \$11,449,638 | \$1,000,000 | \$12,117,535 | 4 |
| \$13,235,267 | \$4,962,131 | \$5,394,066 | \$76,000,000 |
| \$20,264,436 | \$9,507,049 | | \$7,500,000 |

| \$19,063,007 | \$5,300,000 | \$15,476,934 | |
|--------------------|---------------|---------------|---|
| \$54,149,098 | \$40,860,790 | \$30,361,634 | \$35,000,000 |
| \$57,806,952 | \$673,876 | \$48,056,452 | \$55,000,000 |
| \$13,090,630 | \$1,725,749 | \$23,600,109 | \$60,000,000 |
| \$28,476,219 | \$17,512,793 | \$29,822,828 | \$00,000,000 |
| \$3,688,560 | \$28,342,050 | \$6,319,960 | \$40,000,000 |
| \$10,144,010 | \$5,317,628 | \$8,742,316 | \$35,000,000 |
| \$24,148,068 | \$1,746,405 | \$26,390,836 | \$5,000,000 |
| \$37,634,615 | \$45,600,000 | \$40,752,599 | \$16,000,000 |
| \$41,011,711 | \$27,812,815 | \$32,656,099 | 910,000,000 |
| \$58,636,047 | \$43,000,000 | \$32,683,684 | \$64,000,000 |
| \$23,618,786 | \$55,578,707 | \$33,365,115 | \$16,000,000 |
| \$95,673,607 | \$63,300,000 | \$44,106,290 | <i>\$10,000,000</i> |
| \$121,463,226 | \$48,400,000 | \$134,374,749 | \$17,500,000 |
| \$336,530,303 | \$554,341,323 | \$123,997,036 | \$258,000,000 |
| \$18,211,013 | \$55,380,487 | \$18,978,879 | <i>\$230,000,000</i> |
| \$200,120,000 | \$191,000,000 | \$81,570,819 | \$232,000,000 |
| \$234,362,462 | \$224,997,093 | \$103,539,395 | \$150,000,000 |
| \$56,441,711 | \$66,398,892 | \$29,155,509 | \$15,000,000 |
| \$26,024,456 | \$31,005,153 | \$22,436,857 | \$7,000,000 |
| \$23,760,822 | \$38,765,566 | \$23,711,660 | <i>ŢŢ</i> , <i>ccc</i> ,ccc |
| \$36,605,602 | \$6,485,139 | \$20,489,423 | \$21,000,000 |
| \$3,091,922 | \$646,700 | \$1,827,435 | +==,000,000 |
| \$49,662,533 | \$8,725,535 | \$22,928,049 | |
| \$19,097,550 | \$3,104,630 | \$23,084,465 | \$1,500,000 |
| \$18,882,880 | \$1,936,721 | \$19,347,243 | \$20,000,000 |
| \$204,462 | 1 // | 1 - 7 - 7 - | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| \$42,285,169 | \$30,500,000 | \$12,428,204 | \$75,000,000 |
| \$9,445,857 | \$9,551,317 | | \$150,000 |
| \$80,209,692 | \$37,363,351 | \$34,408,161 | \$20,000,000 |
| \$32,886,940 | \$7,991,682 | \$19,013,476 | |
| \$444,093 | \$41,106 | | |
| \$13,938,332 | \$396,069 | \$23,972,256 | \$25,000,000 |
| \$195,330,621 | \$456,568,661 | \$131,324,982 | \$75,000,000 |
| \$23,364,784 | \$14,800,000 | \$26,301,459 | \$20,000,000 |
| \$72,779,000 | \$43,839,084 | \$64,992,667 | \$51,000,000 |
| \$459 <i>,</i> 095 | \$38,411,815 | \$4,060,608 | |
| \$13,040,527 | \$55,787 | \$16,841,759 | |
| \$14,523,101 | \$1,596,538 | \$5,943,446 | |
| \$18,844,784 | \$3,320,824 | \$26,752,947 | \$15,000,000 |
| \$17,807,569 | | | \$20,000,000 |
| \$16,235,738 | | | \$9,000,000 |
| \$124,740,460 | \$201,810,634 | \$95,831,660 | \$35,000,000 |
| \$25,926,673 | \$20,064,522 | \$37,541,232 | |
| \$57,377,916 | \$114,000,000 | \$62,525,527 | \$100,000,000 |
| \$19,661,987 | \$420,000 | \$15,941,535 | \$20,000,000 |
| \$22,672,813 | \$24,000,000 | \$12,345,224 | \$60,000,000 |
| | | | |

| \$20,342,161 | | | |
|------------------|---------------|---------------|---------------|
| \$134,529,403 | \$249,002,061 | \$100,735,780 | \$110,000,000 |
| \$1,530,535 | \$1,017,843 | | \$9,000,000 |
| \$24,413,467 | \$13,308,360 | | |
| \$11,003,643 | | | \$13,000,000 |
| \$8,334,575 | \$5,100,000 | \$6,035,460 | |
| \$423,315,812 | \$642,344,000 | \$320,671,450 | \$225,000,000 |
| \$35,662,731 | \$20,384,530 | \$35,769,990 | \$17,000,000 |
| \$43,792,641 | \$27,000,000 | \$22,727,928 | \$35,000,000 |
| \$25,031,037 | \$25,156,752 | \$31,032,170 | \$53,000,000 |
| \$10,232,081 | \$20,590,780 | \$27,357,887 | |
| \$183,135,014 | \$343,936,008 | \$96,337,909 | \$72,500,000 |
| \$6 <i>,</i> 795 | | | |
| \$54,607,383 | \$65,000,000 | \$10,459,743 | \$25,000,000 |
| \$15,432,542 | | | |
| \$4,548,331 | | | |
| \$148,761,765 | \$70,232,344 | \$117,411,877 | \$27,500,000 |
| \$24,633,730 | \$42,000,000 | \$30,497,752 | |
| \$55,011,732 | \$32,000,000 | \$53,922,172 | |
| \$5,529,144 | \$2,590,061 | | |
| \$36,580,083 | \$1,734,720 | \$37,827,956 | |
| \$50,572,589 | \$94,983,557 | \$21,129,239 | \$40,000,000 |
| \$75,802,010 | \$54,600,000 | \$41,628,625 | \$54,000,000 |
| \$75,030,163 | \$174,457,952 | \$87,654,390 | \$100,000,000 |
| \$10,597,734 | \$1,000,000 | \$4,982,989 | |
| \$250,863,268 | \$323,617,573 | \$153,286,880 | \$110,000,000 |
| \$100,289,690 | \$72,929,590 | \$37,997,932 | \$175,000,000 |
| \$9,396,870 | | | \$15,000,000 |
| \$43,107,979 | \$49,000,000 | \$26,948,545 | \$28,000,000 |
| \$97,822,171 | \$71,510,807 | \$78,345,374 | |
| \$7,459,300 | \$34,604,805 | \$7,342,760 | \$35,000,000 |
| \$13,395,961 | | | \$20,000,000 |
| \$17,544,812 | \$16,061,597 | \$16,167,194 | \$7,500,000 |
| \$40,435,190 | \$4,800,000 | \$30,880,666 | \$30,000,000 |
| \$43,545,364 | | | |
| \$140,125,968 | \$112,900,000 | \$40,775,094 | \$180,000,000 |
| \$21,000,147 | \$893,444 | \$49,920,014 | \$15,000,000 |
| \$103,365,956 | \$51,600,000 | \$53,661,766 | \$75,000,000 |
| \$35,552,383 | \$33,897,819 | \$25,338,142 | \$76,000,000 |
| \$11,205,901 | \$8,667,942 | \$12,345,494 | |
| \$43,760,605 | \$21,540,742 | \$38,478,972 | |
| \$64,665,672 | \$113,000,000 | \$70,937,146 | \$149,000,000 |
| \$72,778,712 | \$10,800,000 | \$49,039,094 | \$11,000,000 |
| \$228,498 | \$4,506,731 | | |
| \$20,568,319 | \$2,971,947 | \$13,668,418 | |
| \$128,505,958 | \$133,066,786 | \$62,652,669 | \$18,000,000 |
| \$168,213,584 | \$84,800,000 | \$92,291,863 | |
| | | | |

| \$39,143,839 | \$29,500,000 | \$8,293,678 | \$20,000,000 |
|---------------|--------------------|--------------------|--------------|
| \$12,406,646 | \$478,928 | | |
| \$15,074,191 | \$25,072,851 | \$4,845,361 | \$80,000,000 |
| \$59,908,565 | \$35,468,177 | \$33,880,479 | |
| \$10,299,782 | \$73,200,000 | | \$15,500,000 |
| \$38,989,507 | \$50,200,000 | \$22,208,165 | |
| \$73,661,010 | \$66,500,000 | \$71,541,095 | \$75,000,000 |
| \$11,989,328 | \$516,860 | \$6,679,409 | \$35,000,000 |
| \$5,755,286 | \$766,543 | \$853 <i>,</i> 973 | \$55,000,000 |
| \$71,985,628 | \$56,543,671 | \$49,635,451 | \$22,500,000 |
| \$82,234,139 | \$54,700,000 | \$41,355,482 | \$25,000,000 |
| \$50,866,635 | \$66,918,416 | \$43,279,287 | \$40,000,000 |
| \$10,010,209 | \$15,737,014 | \$39,102,832 | |
| \$22,530,295 | \$38,000,000 | | |
| \$7,006,708 | | | \$4,000,000 |
| \$53,089,891 | \$54,806,115 | \$45,348,399 | \$40,000,000 |
| \$38,634,938 | \$96,921,737 | \$25,077,781 | \$70,000,000 |
| \$198,000,317 | \$187,000,000 | \$203,202,864 | \$85,000,000 |
| \$15,242,450 | \$12,977,992 | \$12,376,741 | |
| \$39,739,367 | \$47,119,211 | \$16,820,895 | \$20,000,000 |
| \$118,594,548 | \$27,000,000 | \$49,169,389 | \$61,000,000 |
| \$16,574,590 | \$4,040,071 | \$16,762,012 | |
| \$8,130,530 | | | |
| \$35,374,833 | \$18,400,000 | \$15,902,523 | |
| \$7,233,485 | | | |
| \$5,694,308 | | | |
| \$17,510,118 | \$32,242,273 | \$8,957,029 | |
| \$12,559,771 | \$645 <i>,</i> 640 | \$13,549,608 | \$14,000,000 |
| \$82,985,708 | \$61,000,000 | \$83,550,733 | \$82,500,000 |
| \$11,614,790 | | | |
| \$42,674,040 | \$26,205,530 | \$23,917,497 | |
| \$68,501 | | | |
| \$47,003,582 | \$48,200,000 | \$57,244,093 | \$60,000,000 |
| \$38,432,823 | \$3,048,028 | \$33,990,308 | \$30,000,000 |
| \$118,823,091 | \$84,000,000 | \$104,029,214 | \$75,000,000 |
| \$33,080,084 | \$50,000,000 | \$20,971,999 | \$85,000,000 |
| \$11,052,958 | \$3,087,444 | \$9,691,414 | \$10,500,000 |
| \$47,852,604 | \$33,608,739 | \$33,205,167 | |
| \$18,663,911 | \$18,640,726 | \$8,050,112 | \$16,500,000 |
| \$12,044,087 | \$31,000,000 | \$13,059,709 | \$5,700,000 |
| \$27,838,408 | \$5,986,288 | \$28,754,050 | \$12,000,000 |
| \$16,379,582 | \$4,476,064 | | |
| \$2,730,296 | \$10,695,293 | | \$3,700,000 |
| \$2,956,339 | \$80,397 | | \$9,000,000 |
| \$13,932,383 | \$3,366,768 | \$17,210,792 | |
| \$84,500,122 | \$23,000,000 | \$76,815,057 | |
| \$65,328,121 | \$50,000,000 | \$51,183,795 | \$12,000,000 |
| | | | |

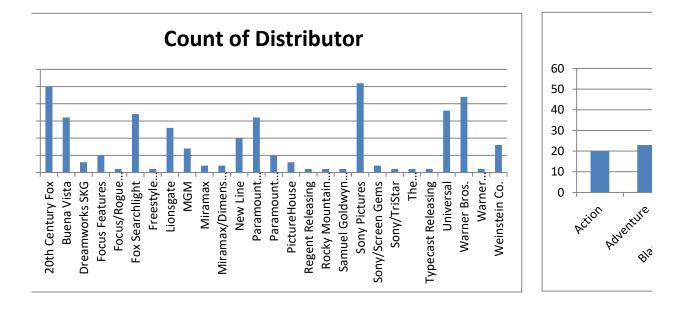
| \$85,105,259 | \$104,796,444 | \$96,372,487 | \$85,000,000 |
|--------------------|---------------|---------------|---------------|
| \$21,471,047 | \$5,149,714 | \$21,227,639 | |
| \$25,126,214 | \$37,100,000 | \$19,733,449 | \$40,000,000 |
| \$148,213,377 | \$14,800,000 | \$84,806,563 | \$73,000,000 |
| \$14,426,251 | | | |
| \$70,269,899 | \$85,450,189 | \$34,655,821 | \$24,000,000 |
| \$9,176,787 | \$9,755,330 | \$5,434,934 | \$15,000,000 |
| \$33,302,167 | \$196,397,938 | \$28,162,446 | \$25,000,000 |
| \$482,355 | \$233,349 | | |
| \$33,602,376 | \$28,300,000 | \$45,095,837 | \$53,000,000 |
| \$59,891,098 | \$40,632,083 | \$55,497,574 | \$8,000,000 |
| \$28,426,747 | \$113,275,517 | \$18,693,368 | |
| \$13,756,082 | \$55,000,000 | \$13,618,088 | \$13,000,000 |
| \$31,366,978 | \$150,081 | \$31,456,820 | |
| \$292,004,738 | \$646,464,126 | \$220,651,146 | \$150,000,000 |
| \$15,962,471 | \$44,900,000 | \$16,617,894 | \$40,000,000 |
| \$133,311,000 | \$157,228,042 | \$140,647,116 | \$90,000,000 |
| \$34,020,814 | \$28,000,000 | \$23,693,992 | \$33,000,000 |
| \$33,000,880 | \$1,457,899 | \$18,301,944 | |
| \$17,606,684 | \$30,756,832 | \$16,831,973 | \$6,000,000 |
| \$210,614,939 | \$245,453,242 | \$261,158,713 | \$60,000,000 |
| \$162,586,036 | \$143,500,000 | \$90,820,939 | \$55,000,000 |
| \$35,193,167 | \$41,400,000 | \$27,501,523 | \$32,000,000 |
| \$833 <i>,</i> 532 | \$194,090 | | |
| | | | |

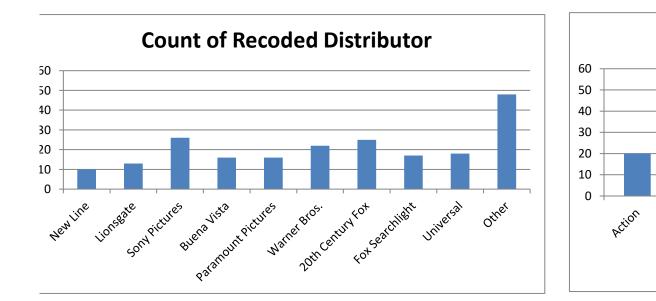
| Distributor | Count |
|-----------------------------|-------|
| 20th Century Fox | 25 |
| Buena Vista | 16 |
| Dreamworks SKG | 3 |
| Focus Features | 5 |
| Focus/Rogue Pictures | 1 |
| Fox Searchlight | 17 |
| Freestyle Releasing | 1 |
| Lionsgate | 13 |
| MGM | 7 |
| Miramax | 2 |
| Miramax/Dimension | 2 |
| New Line | 10 |
| Paramount Pictures | 16 |
| Paramount Vantage | 5 |
| PictureHouse | 3 |
| Regent Releasing | 1 |
| Rocky Mountain Pictures | 1 |
| Samuel Goldwyn Films | 1 |
| Sony Pictures | 26 |
| Sony/Screen Gems | 2 |
| Sony/TriStar | 1 |
| The Documentary Group | 1 |
| Typecast Releasing | 1 |
| Universal | 18 |
| Warner Bros. | 22 |
| Warner Independent Pictures | 1 |
| Weinstein Co. | 8 |
| Weinstein/Dimension | 2 |
| | |

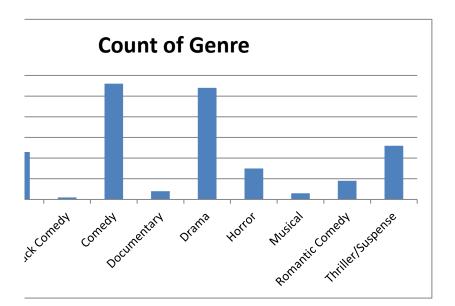
| Recoded Distributor | Count |
|---------------------|-------|
| New Line | 10 |
| Lionsgate | 13 |
| Sony Pictures | 26 |
| Buena Vista | 16 |
| Paramount Pictures | 16 |
| Warner Bros. | 22 |
| 20th Century Fox | 25 |
| Fox Searchlight | 17 |
| Universal | 18 |
| Other | 48 |

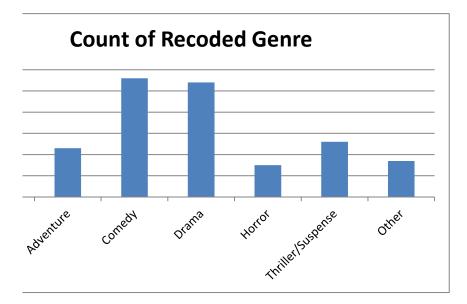
| Genre | Count | |
|-------------------|-------|----|
| Action | 20 | |
| Adventure | 23 | |
| Black Comedy | 1 | 30 |
| Comedy | 56 | 25 |
| Documentary | 4 | 20 |
| Drama | 54 | 15 |
| Horror | 15 | 10 |
| Musical | 3 | 5 |
| Romantic Comedy | 9 | 0 |
| Thriller/Suspense | 26 | |
| | | |

| Recoded Genre | Count |
|----------------------|-------|
| Action | 20 |
| Adventure | 23 |
| Comedy | 56 |
| Drama | 54 |
| Horror | 15 |
| Thriller/Suspense | 26 |
| Other | 17 |









| Numbers of six-packs purchased | | | | |
|--------------------------------|--------|--------|--------|-----------|
| Customer | Beer A | Beer B | Beer C | All three |
| 1 | 2 | 5 | 2 | 9 |
| 2 | 2 | 2 | 6 | 10 |
| 3 | 2 | 4 | 5 | 11 |
| 4 | 1 | 6 | 0 | 7 |
| 5 | 4 | 0 | 2 | 6 |
| 6 | 3 | 1 | 3 | 7 |
| 7 | 6 | 1 | 6 | 13 |
| 8 | 0 | 1 | 4 | 5 |
| 9 | 3 | 0 | 3 | 6 |
| 10 | 0 | 1 | 4 | 5 |
| 11 | 1 | 0 | 5 | 6 |
| 12 | 1 | 1 | 0 | 2 |
| 13 | 0 | 1 | 3 | 4 |
| 14 | 2 | 4 | 6 | 12 |
| 15 | 3 | 5 | 1 | 9 |
| 16 | 1 | 0 | 3 | 4 |
| 17 | 0 | 1 | 6 | 7 |
| 18 | 6 | 0 | 0 | 6 |
| 19 | 6 | 6 | 0 | 12 |
| 20 | 3 | 3 | 6 | 12 |
| 21 | 0 | 3 | 0 | 3 |
| 22 | 4 | 0 | 3 | 7 |
| 23 | 1 | 2 | 0 | 3 |
| 24 | 2 | 2 | 6 | 10 |
| 25 | 4 | 6 | 0 | 10 |
| 26 | 1 | 4 | 0 | 5 |
| 27 | 5 | 3 | 5 | 13 |
| 28 | 0 | 4 | 2 | 6 |
| 29 | 4 | 0 | 4 | 8 |
| 30 | 0 | 1 | 1 | 2 |

Similar averages to those quoted i Beer A Beer B Beer C 8.173913 7.695652 7.818182

> Columns B-D contain random I column E contains their sums. function to calculate the avera average in column J is a simple key to see how the random n

> As you can see, the "Any" aver because of a built-in bias. It av E, whereas the others average E where the number in column Therefore, these particular nul large ones.

> Still, there is nothing that guar data to the right. Now, if colur tend to be small (a form of bra column O is 0, columns P and ("Any" average is not always th than the "Beer A" average. Of other types of customer behav number formulas.

| n case | Numbers of six-packs purchased | | | | |
|--|--------------------------------|--------|--------|--------|-----------|
| Any | Customer | Beer A | Beer B | Beer C | All three |
| 7.333333 | 1 | 2 | 1 | 0 | 3 |
| | 2 | 0 | 3 | 2 | 5 |
| | 3 | 1 | 1 | 1 | 3 |
| | 4 | 4 | 1 | 1 | 6 |
| numbers of purchases, and | 5 | 0 | 3 | 4 | 7 |
| Columns G-I use the AVERAGEIF | 6 | 1 | 1 | 1 | 3 |
| ages in the case, whereas the Any | 7 | 4 | 1 | 1 | 6 |
| e average of column E. Press the F9 | 8 | 5 | 0 | 0 | 5 |
| umbers and averages change. | 9 | 6 | 0 | 1 | 7 |
| | 10 | 6 | 0 | 0 | 6 |
| rage tends to be the lowest. This is | 11 | 0 | 5 | 4 | 9 |
| erages all the numbers in column | 12 | 0 | 4 | 0 | 4 |
| only over the numbers in column | 13 | 5 | 1 | 1 | 7 |
| n B (or C or D) is positive. mbers in column E tend to be the | 14 | 5 | 1 | 1 | 7 |
| mbers in column E tend to be the | 15 | 4 | 0 | 0 | 4 |
| | 16 | 4 | 0 | 1 | 5 |
| antees this behavior. Look at the | 17 | 5 | 0 | 1 | 6 |
| nn O is positive, columns P and Q | 18 | 5 | 0 | 0 | 5 |
| and loyalty to brand A), whereas if | 19 | 3 | 0 | 1 | 4 |
| Q can be larger. In this case, the | 20 | 6 | 0 | 0 | 6 |
| e lowest. In fact, it is usually larger | 21 | 6 | 1 | 0 | 7 |
| course, we could build in many | 22 | 5 | 0 | 0 | 5 |
| vior, depending on the random | 23 | 5 | 0 | 0 | 5 |
| | 24 | 2 | 0 | 1 | 3 |
| | 25 | 1 | 1 | 1 | 3 |
| | 26 | 4 | 0 | 0 | 4 |
| | 27 | 0 | 2 | 0 | 2 |
| | 28 | 0 | 4 | 4 | 8 |
| | 29 | 0 | 1 | 6 | 7 |
| | 30 | 5 | 0 | 1 | 6 |
| | | | | | |

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Averages quoted in case

| Beer A | Beer B | Beer C | Any |
|----------|--------|----------|----------|
| 5.043478 | 5.4375 | 5.666667 | 5.266667 |