#### 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 1<sup>st</sup> quartile than to the 3<sup>rd</sup> 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.

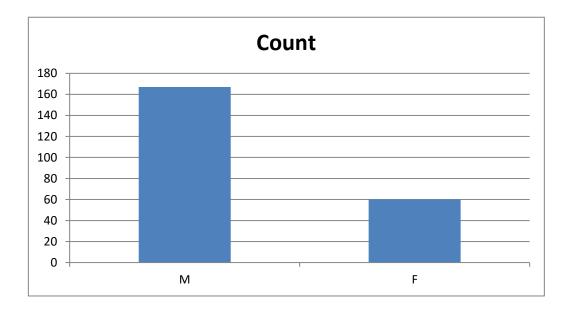
Student	Gender	Nationality	Gender	Count	Pct of total
1	Μ	USA	Μ	167	73.6%
2	Μ	USA	F	60	26.4%
3	Μ	India			
4	F	India	Nationality	Count	Pct of total
5	Μ	USA	Austria	1	0.4%
6	F	USA	Brazil	2	0.9%
7	Μ	USA	Canada	1	0.4%
8	Μ	USA	China	14	6.2%
9	Μ	USA	Croatia	1	0.4%
10	Μ	India	Dominican Republic	1	0.4%
11	Μ	India	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			
46	F	USA			

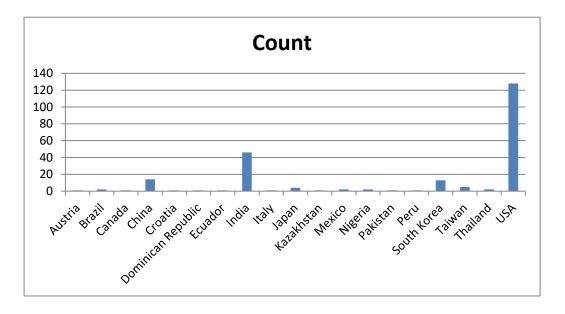
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51	M	USA
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55	F	USA
56	F	USA
57	M	USA
58	F	USA
59	M	USA
60	Μ	Italy
61	Μ	Austria
62	F	USA
63	F	India
64	Μ	USA
65	F	USA
66	Μ	India
67	F	China
68	F	India
69	Μ	USA
70	Μ	USA
71	Μ	USA
72	F	USA
73	M	USA
74	F	Mexico
75	F	USA
76	M	India
	M	USA
77		
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
89	Μ	USA
90	F	USA
91	Μ	Japan
92	F	USA
93	Μ	India

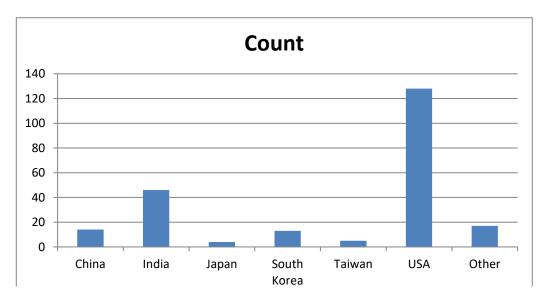
94	М	India
95	M	South Korea
96	M	Nigeria
97	M	India
98	M	India
99	M	India
100	M	India
101	M	USA
102	M	USA
103	M	South Korea
104	М	South Korea
105	М	South Korea
106	М	South Korea
107	F	Peru
108	М	USA
109	F	USA
110	F	USA
111	F	USA
112	F	USA
113	F	India
114	М	India
115	F	India
116	Μ	USA
117	Μ	USA
118	Μ	USA
119	Μ	USA
120	Μ	USA
121	Μ	USA
122	Μ	USA
123	F	USA
124	F	USA
125	Μ	USA
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
136	F	India
137	M	USA
138	M	South Korea
139	M	India
140	М	USA

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

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

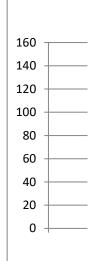


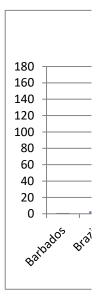


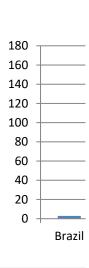


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1   M   USA   M   150   66.4%     2   M   India   F   76   33.5%     4   F   USA   Nationality   Count   Pct of total     5   M   USA   Barbados   1   0.4%     6   F   USA   Brazil   3   1.3%     7   F   USA   China   10   4.4%     8   M   USA   India   29   12.8%     10   M   USA   Japan   3   1.3%     11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Philippines   1   0.4%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   Japan   3   1.3%     20 </th <th>Student</th> <th>Gender</th> <th>Nationality</th> <th></th> <th>Gender</th> <th>Count</th> <th>Pct of total</th>	Student	Gender	Nationality		Gender	Count	Pct of total
3   M   USA     4   F   USA   Nationality   Count   Pct of total     5   M   USA   Barbados   1   0.4%     5   M   USA   Brazil   3   1.3%     7   F   USA   China   10   4.4%     8   M   USA   China   10   4.4%     8   M   USA   Colombia   1   0.4%     9   M   USA   Japan   3   1.3%     11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Peru   2   0.9%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   Brazil   3   1.3%     20   M   USA   Brazil	1	М	USA		Μ	150	66.4%
4     F     USA     Nationality     Count     Pt of total       5     M     USA     Barbados     1     0.4%       6     F     USA     Brazil     3     1.3%       7     F     USA     Colombia     1     0.4%       8     M     USA     Colombia     1     0.4%       9     M     USA     India     29     12.8%       10     M     USA     Japan     3     1.3%       11     M     Brazil     Mexico     2     0.9%       12     M     India     Peru     2     0.9%       13     M     India     South Korea     12     5.3%       16     M     USA     Taiwan     5     2.2%       17     M     USA     USA     15     68.6%       19     F     USA     Japan     3     1.3%       22     F     USA     Japan     3     1.3%	2	М	India		F	76	33.6%
S   M   USA   Barbados   1   0.4%     6   F   USA   Brazil   3   1.3%     7   F   USA   China   10   4.4%     8   M   USA   Colombia   1   0.4%     9   M   USA   India   29   12.8%     10   M   USA   Japan   3   1.3%     11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Peru   2   0.9%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.2.2%     17   M   USA   Thailand   1   0.4%     18   M   USA   Brazil   3   1.3%     20   M   USA   Brazil   3   1.3%     21   M   USA   Japan   3   1.3%     22 <td< td=""><td>3</td><td>М</td><td>USA</td><td></td><td></td><td></td><td></td></td<>	3	М	USA				
6     F     USA     Brazil     3     1.3%       7     F     USA     China     10     4.4%       8     M     USA     Colombia     1     0.4%       9     M     USA     India     29     12.8%       10     M     USA     Japan     3     1.3%       11     M     Brazil     Mexico     2     0.9%       12     M     India     Peru     2     0.9%       13     M     India     Peru     2     0.9%       14     F     USA     Puerto Rico     1     0.4%       15     M     India     South Korea     12     5.3%       16     M     USA     USA     155     68.6%       19     F     USA     USA     155     68.6%       12     M     USA     Japan     3     1.3%       22     F     USA     Japan     3     1.3%	4	F	USA		Nationality	Count	Pct of total
7   F   USA   China   10   4.4%     8   M   USA   India   29   12.8%     10   M   USA   Japan   3   1.3%     11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Peru   2   0.9%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   USA   155   68.6%     19   F   USA   USA   10   4.4%     20   M   USA   India   29   12.8%     21   M   USA   India   29   1.3%     22   F   USA   Japan   3   1.3%     23   M   USA   Japan   3   1.3%     24   M	5	М	USA		Barbados	1	0.4%
8     M     USA     Colombia     1     0.4%       9     M     USA     India     29     12.8%       10     M     USA     Japan     3     1.3%       10     M     USA     Japan     3     1.3%       11     M     Brazil     Mexico     2     0.9%       12     M     India     Peru     2     0.9%       13     M     India     Peru     2     0.9%       14     F     USA     Puerto Rico     1     0.4%       15     M     India     South Korea     12     5.3%       16     M     USA     Taiwan     5     2.2%       17     M     USA     USA     155     68.6%       19     F     USA     India     29     1.3%       21     M     USA     India     29     1.3%       22     F     USA     India     29     1.3%	6	F	USA		Brazil	3	1.3%
9   M   USA   India   29   12.8%     10   M   USA   Japan   3   1.3%     11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Peru   2   0.9%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   USA   10   4.4%     18   M   USA   USA   10   4.4%     20   M   USA   Brazil   3   1.3%     21   M   USA   India   29   12.8%     22   F   USA   India   29   12.8%     23   M   USA   Japan   3   1.3%     24   M   USA   Japan   3   1.3%     25   M	7	F	USA		China	10	4.4%
10   M   USA   Japan   3   1.3%     11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Peru   2   0.9%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   Taiwan   5   2.2%     18   M   USA   Taiwan   5   2.2%     20   M   USA   Nationality   Count   Pct of total     21   M   USA   Brazil   3   1.3%     22   F   USA   India   29   12.8%     24   M   USA   Japan   3   1.3%     25   M   India   South Korea   12   5.3%     26   M   USA   Japan   3   1.3%	8	М	USA		Colombia	1	0.4%
10   M   USA   Japan   3   1.3%     11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Peru   2   0.9%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   Taiwan   5   2.2%     18   M   USA   Taiwan   5   2.2%     20   M   USA   Nationality   Count   Pct of total     21   M   USA   Brazil   3   1.3%     22   F   USA   India   29   12.8%     24   M   USA   Japan   3   1.3%     25   M   India   South Korea   12   5.3%     26   M   USA   Japan   3   1.3%	9	М	USA		India	29	12.8%
11   M   Brazil   Mexico   2   0.9%     12   M   India   Peru   2   0.9%     13   M   India   Philippines   1   0.4%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   USA   155   68.6%     19   F   USA   USA   155   68.6%     19   F   USA   Brazil   3   1.3%     22   F   USA   Brazil   3   1.3%     23   M   USA   Brazil   3   1.3%     24   M   USA   Japan   3   1.3%     25   M   India   South Korea   12   5.3%     26   M   USA   Japan   3   1.3%     27   M   USA   USA   155   68.6%     28 <td></td> <td>М</td> <td>USA</td> <td></td> <td>Japan</td> <td>3</td> <td>1.3%</td>		М	USA		Japan	3	1.3%
13   M   India   Philippines   1   0.4%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   Thailand   1   0.4%     18   M   USA   USA   15   68.6%     19   F   USA   USA   Brazil   3   1.3%     20   M   USA   Brazil   3   1.3%     21   M   USA   Brazil   3   1.3%     22   F   USA   India   29   12.8%     24   M   USA   Japan   3   1.3%     25   M   India   South Korea   12   5.3%     26   M   USA   Japan   3   1.3%     27   M   USA   USA   155   68.6%     28   F   China   Other   9   4.0% <t< td=""><td></td><td>М</td><td></td><td></td><td>•</td><td></td><td></td></t<>		М			•		
13   M   India   Philippines   1   0.4%     14   F   USA   Puerto Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   USA   15   68.6%     19   F   USA   USA   155   68.6%     20   M   USA   Brazil   3   1.3%     21   M   USA   Brazil   3   1.3%     22   F   USA   India   29   12.8%     24   M   USA   Japan   3   1.3%     25   M   India   South Korea   12   5.3%     26   M   USA   Japan   3   1.3%     27   M   USA   USA   155   68.6%     28   F   China   Other   9   4.0%     33   M   USA   155   68.6%     36   M	12	М	India		Peru	2	0.9%
14   F   USA   Puero Rico   1   0.4%     15   M   India   South Korea   12   5.3%     16   M   USA   Taiwan   5   2.2%     17   M   USA   Thailand   1   0.4%     18   M   USA   Taiwan   5   2.2%     17   M   USA   Thailand   1   0.4%     18   M   USA   Taiwan   5   2.2%     17   M   USA   Thailand   1   0.4%     20   M   USA   USA   105   68.6%     21   M   USA   Brazil   3   1.3%     22   F   USA   India   29   12.8%     24   M   USA   Japan   3   1.3%     25   M   India   South Korea   12   5.3%     26   M   USA   USA   155   68.6%     28   F   China   Other   9   4.0%     30	13	М	India		Philippines	1	
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16MUSATaiwan52.2%17MUSAThailand10.4%18MUSAUSA15568.6%19FUSAUSA15568.6%20MUSABrazil31.3%21MUSABrazil31.3%22FUSAChina104.4%23MUSAIndia2912.8%24MUSAJapan31.3%25MIndiaSouth Korea125.3%26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSA15568.6%28FChinaOther94.0%29MUSA15568.6%30MUSA15568.6%33MUSA15510009 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 Korea1010009 than in 2008 (and a corresponding decrease in the percentage of Asian students).37FUSA15515538MUSA15515541MUSA15515542FIndia15515543MUSA <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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18MUSAUSA15568.6%19FUSA							
19FUSA20MUSANationalityCountPct of total21MUSABrazil31.3%22FUSAChina104.4%23MUSAIndia2912.8%24MUSAJapan31.3%25MIndiaSouth Korea125.3%26MUSAUSA15568.6%28FChinaOther94.0%29MUSAUSA15568.6%28FChinaOther94.0%29MUSAUSA1209 than in 2008, and (2) 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).36MUSAUSA39MUSAUSA39MUSAUSA41MUSAUSA42FIndia43MUSA44MUSA45MUSA							
20MUSANationalityCountPct of total21MUSABrazil31.3%22FUSAChina104.4%23MUSAIndia2912.8%24MUSAJapan31.3%25MIndiaSouth Korea125.3%26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSAUSA15568.6%29MUSAOther94.0%30MUSAOther94.0%31MChinaOther94.0%33MUSAInter 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).36MUSAUSAUSA39MUSAUSAUSA40MUSAUSAUSA41MUSAUSAUSA42FIndiaUSA43MUSAUSA44MUSAUSA45MUSA							
21MUSABrazil31.3%22FUSAChina104.4%23MUSAIndia2912.8%24MUSAJapan31.3%25MIndiaSouth Korea125.3%26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSAUSA15568.6%28FChinaOther94.0%29MUSAUSA15568.6%30MUSAOther94.0%31MChinaOther94.0%33MUSAIndia1009 than in 2008, and (2) there is a higher percentage of females in 2009 than in 2008 (and a corresponding decrease in the percentage of Asian students).36MSouth Korea1008 (and a corresponding decrease in the percentage of Asian students).38MUSA141MUSA40MUSA141MUSA41MUSA141MUSA43MUSA141MUSA44MUSA141MUSA45MUSA141USA45MUSA141USA45MUSA141USA45MUSA141<					Nationality	Count	Pct of total
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>					-		
23MUSAIndia2912.8%24MUSAJapan31.3%25MIndiaSouth Korea125.3%26MUSATaiwan52.2%27MUSAUSA15568.6%28FChinaOther94.0%29MUSA15568.6%28FChinaOther94.0%29MUSA15568.6%30MUSAFTaiwan31MChinaProbably 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 Korea337FUSAS38MUSAS40MUSAS41MUSA42FIndia43MUSA44MUSA45MUSA							
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							
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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							
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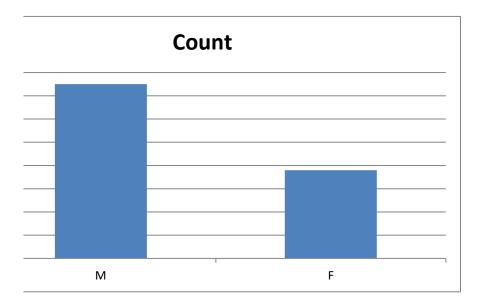


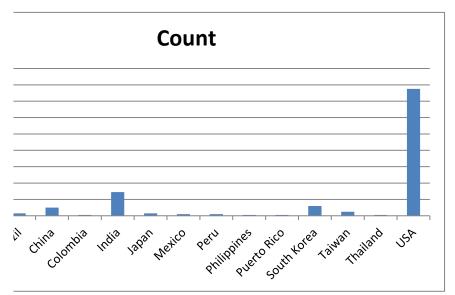
47	Μ	India	
48	М	India	
49	F	USA	
50	F	USA	
51	F	USA	
52	М	USA	
53	Μ	Peru	
54	F	USA	
55	М	USA	
56	М	USA	
57	F	USA	
58	М	USA	
59	F	USA	
60	М	USA	
61	F	USA	
62	М	USA	
63	F	India	
64	F	USA	
65	М	USA	
66	F	USA	
67	М	USA	
68	М	USA	
69	М	China	
70	М	USA	
71	М	Brazil	
72	F	Brazil	
73	F	USA	
74	М	USA	
75	М	USA	
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	

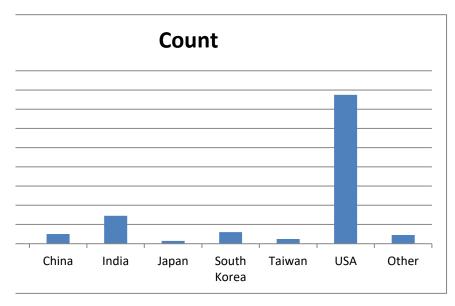
94	М	South Korea
95	М	USA
96	М	USA
97	М	USA
98	М	USA
99	F	USA
100	F	USA
101	М	India
102	Μ	India
103	F	USA
104	Μ	USA
105	Μ	India
106	Μ	South Korea
107	Μ	USA
108	Μ	USA
109	Μ	South Korea
110	Μ	USA
111	Μ	USA
112	F	India
113	Μ	USA
114	Μ	India
115	F	South Korea
116	Μ	South Korea
117	Μ	South Korea
118	Μ	South 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

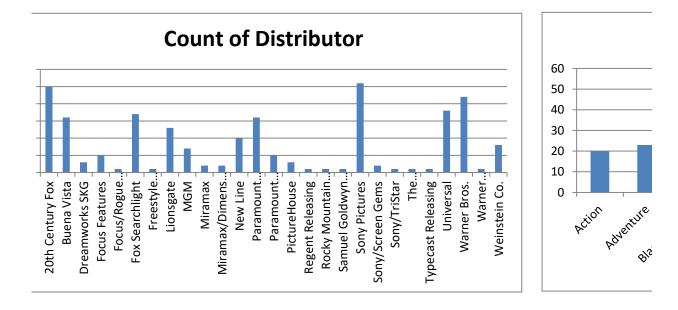
\$85,105,259	\$104,796,444	\$96,372,487	\$85,000,000
\$21,471,047	\$5,149,714	\$21,227,639	
\$25,126,214	\$37,100,000	\$19,733,449	\$40,000,000
\$148,213,377	\$14,800,000	\$84,806,563	\$73,000,000
\$14,426,251			
\$70,269,899	\$85,450,189	\$34,655,821	\$24,000,000
\$9,176,787	\$9,755,330	\$5,434,934	\$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		

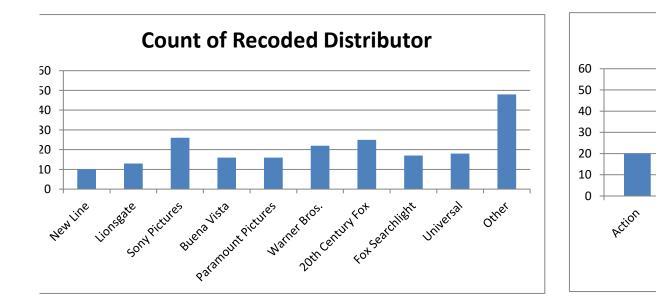
Distributor	Count
20th Century Fox	25
Buena Vista	16
Dreamworks SKG	3
Focus Features	5
Focus/Rogue Pictures	1
Fox Searchlight	17
Freestyle Releasing	1
Lionsgate	13
MGM	7
Miramax	2
Miramax/Dimension	2
New Line	10
Paramount Pictures	16
Paramount Vantage	5
PictureHouse	3
Regent Releasing	1
Rocky Mountain 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

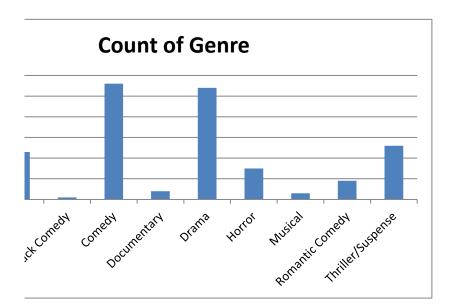
Recoded Distributor	Count
New Line	10
Lionsgate	13
Sony Pictures	26
Buena Vista	16
Paramount Pictures	16
Warner Bros.	22
20th Century Fox	25
Fox Searchlight	17
Universal	18
Other	48

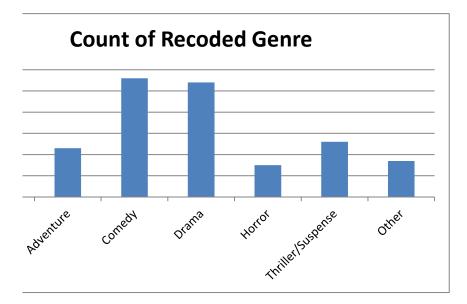
Genre	Count	
Action	20	
Adventure	23	
Black Comedy	1	30
Comedy	56	25
Documentary	4	20
Drama	54	15
Horror	15	10
Musical	3	5
Romantic Comedy	9	0
Thriller/Suspense	26	

<b>Recoded Genre</b>	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