

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	M	USA	M	167	73.6%
2	M	USA	F	60	26.4%
3	М	India			
4	F	India	Nationality	Count	Pct of total
5	М	USA	Austria	1	0.4%
6	F	USA	Brazil	2	0.9%
7	M	USA	Canada	1	0.4%
8	M	USA	China	14	6.2%
9	M	USA	Croatia	1	0.4%
10	M	India	Dominican Republic	1	0.4%
11	M	India	Ecuador	1	0.4%
12	M	USA	India	46	20.3%
13	M	USA	Italy	1	0.4%
14	F	USA	Japan	4	1.8%
15	M	India	Kazakhstan	1	0.4%
16	F	Thailand	Mexico	2	0.9%
17	M	USA	Nigeria	2	0.9%
18	M	USA	Pakistan	1	0.4%
19	F	USA	Peru	1	0.4%
20	M	USA	South Korea	13	5.7%
21	M	USA	Taiwan	5	2.2%
22	M	USA	Thailand	2	0.9%
23	M	USA	USA	128	56.4%
24	M	USA South Konso	Nietienelite.	C	Dat aftered
25 26	M F	South Korea China	Nationality China	Count 14	Pct of total 6.2%
26 27	r F	China	India	46	20.3%
28	r M	China		40	1.8%
29	M	USA	Japan 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	M	Brazil	o the	-,	7.370
34	M	USA			
35	M	Brazil			
36	F	USA			
37	М	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			

47	М	USA
48	F	USA
49	F	USA
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57	М	USA
58	F	USA
59	М	USA
60	М	Italy
61	М	Austria
62	F	USA
63	F	India
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65	F	USA
66	M	India
67	F	China
68	F	India
69	M	USA
70	М	USA
71	М	USA
72	F	USA
73	M	USA
74	F	Mexico
75	F	USA
76	М	India
77	М	USA
78	М	China
79	М	Taiwan
80	F	USA
81	М	USA
82	М	Nigeria
83	М	USA
84	М	India
85	F	Croatia
86	M	India
87	F	USA
88	M	South Korea
89	M	USA
90	F.	USA
91	M	Japan
92	F.	USA

93 M India

54 IVI IIIUIA	94	M	India
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- 97 Μ India
- 98 Μ India
- 99 India Μ
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- 102 Μ USA
- 103 South Korea Μ
- 104 South Korea Μ
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- 125 USA Μ
- 126 India Μ
- 127 Kazakhstan Μ
- 128 Μ India
- 129 USA Μ
- 130 USA Μ
- 131 Μ USA
- 132 USA Μ
- 133 USA Μ

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134

- 135 F Taiwan
- 136 F India
- 137 Μ USA
- 138 South Korea Μ

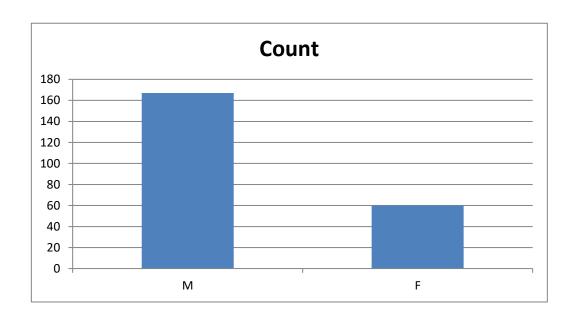
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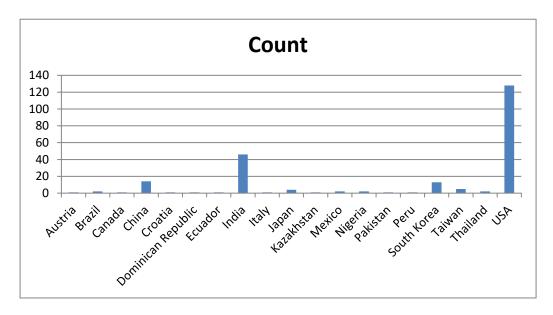
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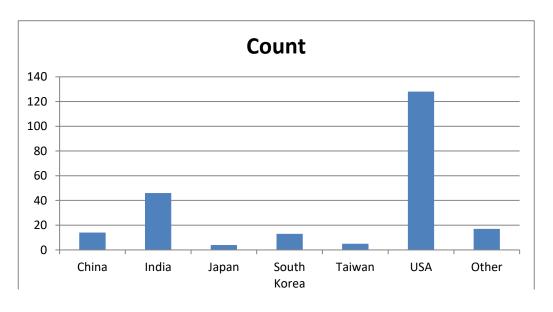
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141
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- 149 Pakistan Μ
- 150 USA Μ
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- 152 Μ India
- 153 Μ USA
- 154 Μ India
- 155 India Μ
- 156 Μ USA
- 157 India
- Μ 158 Μ USA
- 159 USA Μ
- 160 Μ USA
- 161 USA Μ
- 162 Μ USA
- 163 Ecuador Μ
- 164 F Japan
- 165 F USA
- 166 F USA
- 167 Μ USA
- 168 Μ USA
- 169 South Korea Μ
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- 171 Μ Japan
- 172 Μ India
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- 174 USA Μ
- 175 Μ USA
- 176 USA Μ
- 177 USA Μ
- 178 USA Μ
- 179 Μ India
- 180 F USA
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- 182 India Μ
- 183 Μ South Korea
- 184 Μ India
- 185 India Μ
- India 186 Μ
- 187 India Μ

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







Student	Gender	Nationality
1	M	USA
2	M	India
3	M	USA
4	F	USA
5	M	USA
6	F	USA
7	F	USA
8	M	USA
9	M	USA
10	M	USA
11	M	Brazil
12	M	India
13	M	India
14	F	USA
15	M	India
16	M	USA
17	M	USA
18	M	USA
19	F	USA
20	M	USA
21	M	USA
22	F	USA
23	M	USA
24	M	USA
25	M	India
26	M	USA
27	M	USA
28 29	F	China USA
	M M	
30 31	M	USA China
32	F	Taiwan
33	r M	USA
33 34	M	South Korea
35	F	USA
36	M	South Korea
37	F	USA
38	M	USA
39	M	USA
40	M	USA
41	M	USA
42	F	India
43	M	USA
44	M	USA
45	M	USA
46	F	USA
.5	-	

Gender	Count	Pct of total
M	150	66.4%
F	76	33.6%
Nationality	Count	Pct of total
Barbados	1	0.4%
Brazil	3	1.3%
China	10	4.4%
Colombia	1	0.4%
India	29	12.8%
Japan	3	1.3%
Mexico	2	0.9%
Peru	2	0.9%
Philippines	1	0.4%
Puerto Rico	1	0.4%
South Korea	12	5.3%
Taiwan	5	2.2%
Thailand	1	0.4%
USA	155	68.6%
Nationality	Count	Pct of total
Brazil	3	1.3%
China	10	4.4%
India	29	12.8%
Japan	3	1.3%
South Korea	12	5.3%
Taiwan	5	2.2%

Probably 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).

155

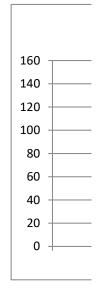
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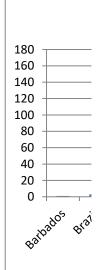
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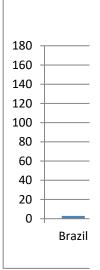
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USA

Other







47	M	India
48	M	India
49	F	USA
50	F	USA
51	F	USA
52	M	USA
53	M	Peru
54	F	USA
55	M	USA
56	M	USA
57	F	USA
58	M	USA
59	F	USA
60	M	USA
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62	M	USA
63	F -	India
64	F	USA
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81	F	USA
82	M	USA
83	M	USA
84	M	USA
85	F	USA
86	F	Taiwan
87	F	Taiwan
88	M	USA
89	M	Barbados
90	M	USA
91	M	India
92	F	USA
93	M	USA

94	M	South Korea

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- 109 M South Korea
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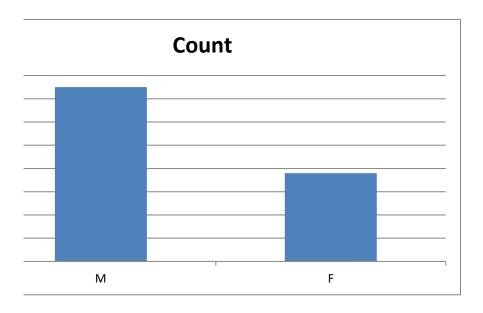
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- 175 Μ Japan
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- 178 Μ **USA**
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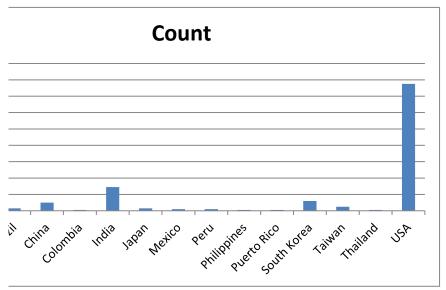
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196	M	USA
197	M	USA
198	F	USA
199	M	USA
200	F	South Korea
201	M	India
202	M	Japan
203	M	USA
204	M	USA
205	M	USA
206	M	USA
207	M	USA
208	F	Taiwan
209	M	India
210	F	USA
211	F	USA
212	F	USA
213	M	India
214	F	USA
215	M	India
216	F	USA
217	F	USA
218	M	USA
219	F	USA
220	F	USA
221	M	USA
222	F	China
223	M	USA
224	F	USA
225	M	China

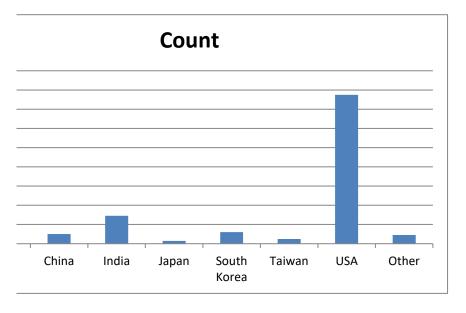
USA

226

М







The Numbers

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

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Index	Movie The Toyas Chainsaw Massacre: The Reginni	Distributor New Line
1	The Texas Chainsaw Massacre: The Beginnin	<u></u>
2	Year of the Dog	Paramount Vantage
3 4	War Stamp the Yord	Lionsgate
5	Stomp the Yard The Illusionist	Sony Pictures
6	Pirates of the Caribbean: At World's End	Freestyle Releasing Buena Vista
7	Sicko	Weinstein Co.
8	Babel	Paramount Vantage
9	Ghost Rider	Sony Pictures
10	Saw III	Lionsgate
11	World Trade Center	Lionsgate
12	Beerfest	I did the recoding manually, by sorting on
13	Ocean's Thirteen	Distributor, say, and finding values with co
14	Amazing Grace	than 20.
15	Shrek the Third	
16	The Holiday	See the tables of counts and charts to the
17	Deck the Halls	
18	The Namesake	Fox Searchlight
19	<u>Déjà Vu</u>	Buena Vista
20	Running With Scissors	Sony Pictures
21	Ratatouille	, Buena Vista
22	The Hills Have Eyes II	Fox Searchlight
23	Fast Food Nation	Fox Searchlight
24	Nancy Drew	Warner Bros.
25	28 Weeks Later	20th Century Fox
26	The Condemned	Lionsgate
27	Employee of the Month	Lionsgate
28	Man of the Year	Universal
29	The Bourne Ultimatum	Universal
30	All the King's Men	Sony Pictures
31	<u>Turistas</u>	20th Century Fox
32	I Now Pronounce You Chuck and Larry	Universal
33	Fantastic Four: Rise of the Silver Surfer	20th Century Fox
34	The Nativity Story	New Line
35	Thank You For Smoking	Fox Searchlight
36	<u>Casino Royale</u>	MGM
37	Miami Vice	Universal
38	The Transformers	Paramount Pictures
39	<u>Unaccompanied Minors</u>	Warner Bros.
40	<u>Hannibal Rising</u>	Weinstein Co.
41	<u>Pride</u>	Lionsgate
42	The Ant Bully	Warner Bros.
43	Surf's Up	Sony Pictures
44	Material Girls	MGM
45	Daddy Day Camp	Sony Pictures
46	<u>Pulse</u>	Weinstein/Dimension

47	Vacancy	Sony/Screen Gems
48	<u>TMNT</u>	Weinstein Co.
49	<u>Invincible</u>	Buena Vista
50	<u>Flyboys</u>	MGM
51	Mr. Brooks	MGM
52	<u>Sunshine</u>	Fox Searchlight
53	The Fountain	Warner Bros.
54	<u>Clerks II</u>	MGM
55	Pan's Labyrinth	PictureHouse
56	John Tucker Must Die	20th Century Fox
57	<u>Little Man</u>	Sony Pictures
58	Hot Fuzz	Focus Features
59	<u>Norbit</u>	Paramount Pictures
60	<u>Superbad</u>	Sony Pictures
61	Spider-Man 3	Sony Pictures
62	Next	Sony Pictures
63	Superman Returns	, Warner Bros.
64	X-Men: The Last Stand	20th Century Fox
65	The Queen	Miramax
66	The Descent	Lionsgate
67	Perfect Stranger	Sony Pictures
68	Freedom Writers	Paramount Pictures
69	The Ex	Weinstein Co.
70	Are We Done Yet?	Sony Pictures
71	Waitress	Fox Searchlight
71 72	Georgia Rule	Universal
72 73		
	Iraq in Fragments	Typecast Releasing Warner Bros.
74 75	Lady in the Water	
75 76	Once Bit of the	Fox Searchlight
76	<u>Disturbia</u>	Paramount Pictures
77 - 2	Balls of Fury	Focus Features
78	Idiocracy	20th Century Fox
79	Hot Rod	Paramount Pictures
80	Ice Age: The Meltdown	20th Century Fox
81	The Covenant	Sony/Screen Gems
82	Barnyard: The Original Party Animals	Paramount Pictures
83	Day Watch	Fox Searchlight
84	<u>How to Eat Fried Worms</u>	New Line
85	Everyone's Hero	20th Century Fox
86	The Marine	20th Century Fox
87	<u>School for Scoundrels</u>	Weinstein Co.
88	Black Christmas	Miramax/Dimension
89	The Devil Wears Prada	20th Century Fox
90	The Nanny Diaries	Weinstein Co.
91	Blood Diamond	Warner Bros.
92	Reign Over Me	Sony Pictures
93	The Black Dahlia	Universal

94	Pana 011 la Miami	20th Contumy Fox
94 95	Reno 911!: Miami Live Free or Die Hard	20th Century Fox 20th Century Fox
96	Trust the Man	Fox Searchlight
97	The Wicker Man	Warner Bros.
98	The Astronaut Farmer	Warner Bros.
99	Tenacious D in: The Pick of Destiny	New Line
100	Pirates of the Caribbean: Dead Man's Chest	Buena Vista
101	Smokin' Aces	Universal
102	License to Wed	Warner Bros.
103	Grindhouse	Weinstein/Dimension
104	Pathfinder	20th Century Fox
105	The Simpsons Movie	20th Century Fox
106	Operation Homecoming	The Documentary Group
107	The Omen	20th Century Fox
108	Catch and Release	Sony Pictures
109	Away From Her	Lionsgate
110	Knocked Up	Universal
111	Jet Li's Fearless	Focus/Rogue Pictures
112	The Guardian	Buena Vista
113	Water	Fox Searchlight
114	Accepted	Universal
115	Music and Lyrics	Warner Bros.
116	You, Me and Dupree	Universal
117	Eragon	20th Century Fox
118	<u>Primeval</u>	Buena Vista
119	Night at the Museum	20th Century Fox
120	Evan Almighty	Universal
121	Black Snake Moan	Paramount Vantage
122	No Reservations	Warner Bros.
123	Meet the Robinsons	Buena Vista
124	A Good Year	20th Century Fox
125	One Night with the King	Rocky Mountain Pictures
126	Hostel: Part II	Lionsgate
127	Stranger Than Fiction	Sony Pictures
128	We Are Marshall	Warner Bros.
129	Rush Hour 3	New Line
130	<u>Flicka</u>	20th Century Fox
131	<u>Dreamgirls</u>	Paramount Pictures
132	<u>Children of Men</u>	Universal
133	Bobby	Weinstein Co.
134	Underdog	Buena Vista
135	Flushed Away	Dreamworks SKG
136	Jackass: Number Two	Paramount Pictures
137	Confetti	Fox Searchlight
138	The Invisible	Buena Vista
139	Borat	20th Century Fox
140	Wild Hogs	Buena Vista

141	The Grudge 2	Sony Pictures
142	Evening Evening	Focus Features
143	The Invasion	Warner Bros.
144	The Good Shepherd	Universal
145	La Vie en Rose	PictureHouse
146	Fracture	New Line
147	Monster House	Sony Pictures
148	Zoom	Sony Pictures
149	Lucky You	Warner Bros.
150	1408	Miramax/Dimension
151	Bridge to Terabithia	Buena Vista
152	Apocalypto	Buena Vista
153	Bratz	Lionsgate
154		20th Century Fox
155	My Super Ex-Girlfriend	•
156	Bug The Prosting	Lionsgate Buena Vista
	The Prestige	
157	Stardust Lieuw Foot	Paramount Pictures
158	Happy Feet	Warner Bros.
159	Alpha Dog	Universal
160	Epic Movie	20th Century Fox
161	Blades of Glory	Paramount Pictures
162	<u>Dead Silence</u>	Universal
163	<u>Delta Farce</u>	Lionsgate
164	The Messengers	Sony Pictures
165	I Know Who Killed Me	Sony/TriStar
166	Who's Your Caddy?	MGM
167	Notes on a Scandal	Fox Searchlight
168	I Think I Love My Wife	Fox Searchlight
169	Charlotte's Web	Paramount Pictures
170	The Last Kiss	Paramount Pictures
171	Because I Said So	Universal
172	Unconscious	Regent Releasing
173	Shooter	Paramount Pictures
174	Gridiron Gang	Sony Pictures
175	<u>Hairspray</u>	New Line
176	<u>Zodiac</u>	Paramount Pictures
177	<u>In the Land of Women</u>	Warner Independent Pictures
178	<u>Premonition</u>	Sony Pictures
179	Becoming Jane	Miramax
180	<u>The Protector</u>	Weinstein Co.
181	<u>Crank</u>	Lionsgate
182	<u>The Hitcher</u>	Focus Features
183	<u>The History Boys</u>	Fox Searchlight
184	Gracie	PictureHouse
185	Firehouse Dog	20th Century Fox
186	The Santa Clause 3: The Escape Clause	Buena Vista
187	Step Up	Buena Vista

188	Open Season	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	Mr. Bean's Holiday	Universal
196	<u>Joshua</u>	Fox Searchlight
197	Flags of Our Fathers	Dreamworks SKG
198	<u>Little Miss Sunshine</u>	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	Snakes on a Plane	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 Distributor	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 Pictures	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 Pictures	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	
ctures	Adventure	Adventure	\$150,338,458	\$227,906,792
right.	Romantic Comedy	Other	\$17,110,339	\$30,092,962
Fox	Comedy	Comedy		
Fox Searchlight	Drama	Drama	\$361,518	\$1,333,480
Buena Vista	Thriller/Suspense	Thriller/Suspense	, ,	, , ,
Sony Pictures	Comedy	Comedy		\$3,660,628
, Buena Vista	Comedy	Comedy	\$80,517,305	\$124,984,886
Fox Searchlight	Horror	Horror	\$11,883,609	\$17,579,582
Fox Searchlight	Drama	Drama	\$580,363	\$853,713
Warner Bros.	Thriller/Suspense	Thriller/Suspense	\$11,687,594	\$19,334,739
20th Century 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 Pictures	Drama	Drama	\$4,686,955	, , ,
20th Century Fox	Thriller/Suspense	Thriller/Suspense	\$4,540,030	\$6,437,413
Universal	Comedy	Comedy	\$52,547,115	\$81,169,105
20th Century Fox	Action	Action	\$77,453,559	\$105,800,808
New Line	Drama	Drama	\$10,239,000	\$18,373,000
Fox Searchlight	Black Comedy	Other	. , ,	, , ,
Other	Action	Action	\$63,267,784	\$100,763,154
Universal	Action	Action	\$36,056,785	\$50,564,950
Paramount Pictures	Action	Action	, , ,	\$228,950,080
Warner Bros.	Comedy	Comedy	\$6,547,915	, -,,
Other	Thriller/Suspense	Thriller/Suspense	\$16,662,340	\$24,157,310
Lionsgate	Drama	Drama	\$4,295,317	<i>+,,</i>
Warner Bros.	Adventure	Adventure	\$14,260,551	\$20,610,757
Sony Pictures	Adventure	Adventure	\$25,370,697	\$40,612,980
Other	Comedy	Comedy	\$6,190,228	+ .5,512,550
Sony Pictures	Comedy	Comedy	¥3,130,220	
Other	Horror	Horror	\$11,176,099	\$16,228,598
30.0.			Ψ±1,±1, 0,000	¥±0,220,000

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		
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	
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		\$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		\$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		
Other	Drama	Drama	\$5,418,140	\$7,757,609
Universal	Comedy	Comedy	\$13,000,430	
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			
\$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	
\$13,235,267	\$4,962,131	\$5,394,066	\$76,000,000
\$20,264,436	\$9,507,049		\$7,500,000

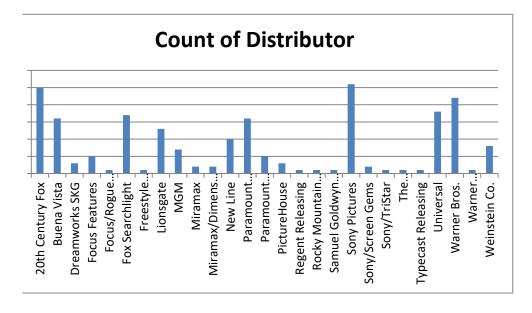
\$19,063,007	\$5,300,000	\$15,476,934	
\$54,149,098	\$40,860,790	\$30,361,634	\$35,000,000
\$57,806,952	\$673,876	\$48,056,452	
\$13,090,630	\$1,725,749	\$23,600,109	\$60,000,000
\$28,476,219	\$17,512,793	\$29,822,828	
\$3,688,560	\$28,342,050	\$6,319,960	\$40,000,000
\$10,144,010	\$5,317,628	\$8,742,316	\$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	
\$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	
\$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	
\$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	
\$36,605,602	\$6,485,139	\$20,489,423	\$21,000,000
\$3,091,922	\$646,700	\$1,827,435	
\$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			
\$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
\$459,095	\$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

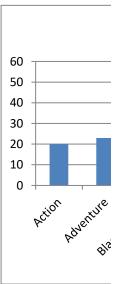
¢20 242 161			
\$20,342,161 \$134,529,403	\$249,002,061	\$100,735,780	\$110,000,000
\$1,530,535	\$1,017,843	7100,733,760	\$9,000,000
\$24,413,467	\$13,308,360		73,000,000
\$11,003,643	713,300,300		\$13,000,000
	¢E 100 000	¢6 025 460	\$13,000,000
\$8,334,575	\$5,100,000	\$6,035,460	¢225 000 000
\$423,315,812	\$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	¢72 500 000
\$183,135,014	\$343,936,008	\$96,337,909	\$72,500,000
\$6,795	45= 000 000	440 450 540	40= 000 000
\$54,607,383	\$65,000,000	\$10,459,743	\$25,000,000
\$15,432,542			
\$4,548,331	1		
\$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	. ,===,===
, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , ,	. , , , , , , , , , , , , , , , , , , ,	

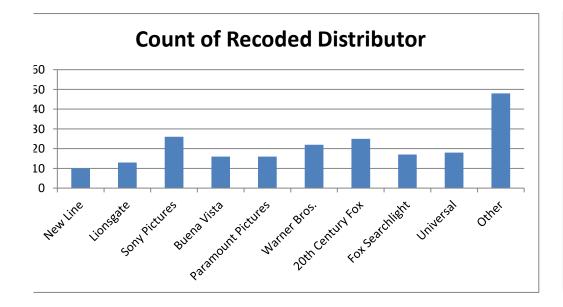
\$39,143,839	\$29,500,000	\$8,293,678	\$20,000,000
\$12,406,646	\$478,928		
\$15,074,191	\$25,072,851	\$4,845,361	\$80,000,000
\$59,908,565	\$35,468,177	\$33,880,479	
\$10,299,782	\$73,200,000		\$15,500,000
\$38,989,507	\$50,200,000	\$22,208,165	
\$73,661,010	\$66,500,000	\$71,541,095	\$75,000,000
\$11,989,328	\$516,860	\$6,679,409	\$35,000,000
\$5,755,286	\$766,543	\$853,973	\$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	340,000,000
		\$39,102,632	
\$22,530,295	\$38,000,000		¢4 000 000
\$7,006,708	¢54.006.445	Ć4F 240 200	\$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	\$645,640	\$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	Ψ=0,=00,000	Ψ=0,0=1,1.01	
\$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	446 = 00 000
\$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

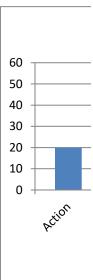
\$85,105,259	\$104,796,444	\$96,372,487	\$85,000,000
\$21,471,047	\$5,149,714	\$21,227,639	
\$25,126,214	\$37,100,000	\$19,733,449	\$40,000,000
\$148,213,377	\$14,800,000	\$84,806,563	\$73,000,000
\$14,426,251			
\$70,269,899	\$85,450,189	\$34,655,821	\$24,000,000
\$9,176,787	\$9,755,330	\$5,434,934	\$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
\$833,532	\$194,090		

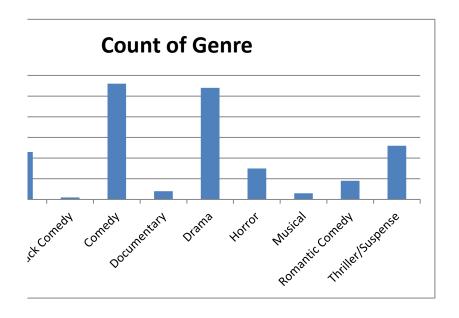
Distributor	Count	Genre	Count	
20th Century Fox	25	Action	20	
Buena Vista	16	Adventure	23	
Dreamworks SKG	3	Black Comedy	1	30
Focus Features	5	Comedy	56	25
Focus/Rogue Pictures	1	Documentary	4	20
Fox Searchlight	17	Drama	54	15
Freestyle Releasing	1	Horror	15	10
Lionsgate	13	Musical	3	5
MGM	7	Romantic Comedy	9	0
Miramax	2	Thriller/Suspense	26	
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	Recoded Genre	Count	(
New Line	10	Action	20	5
Lionsgate	13	Adventure	23	4
Sony Pictures	26	Comedy	56	1
Buena Vista	16	Drama	54	2
Paramount Pictures	16	Horror	15	1
Warner Bros.	22	Thriller/Suspense	26	
20th Century Fox	25	Other	17	
Fox Searchlight	17			
Universal	18			
Other	48			

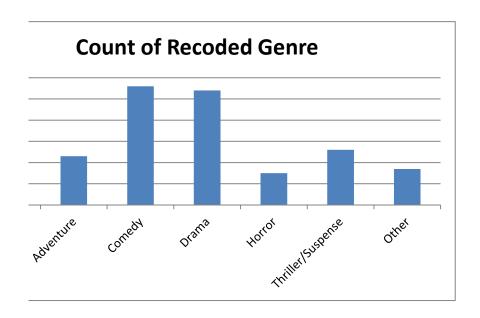












Numbers of six-packs purchased

Customer	Beer A	Beer B	nased 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 ni

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 nullarge 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 behavnumber formulas.

n case	٥

Any 7.333333

numbers of purchases, and Columns G-I use the AVERAGEIF ages in the case, whereas the Any average of column E. Press the F9 umbers and averages change.

rage tends to be the lowest. This is rerages all the numbers in column only over the numbers in column n B (or C or D) is positive.

mbers in column E tend to be the

rantees this behavior. Look at the mn O is positive, columns P and Q and loyalty to brand A), whereas if Q can be larger. In this case, the le lowest. In fact, it is usually larger course, we could build in many vior, depending on the random

Numbers of six-packs purchased

	Nullibers of s	іх-раска р	urchaseu	
Customer	Beer A	Beer B	Beer C	All three
1	2	1	0	3
2	0	3	2	5
3	1	1	1	3
4	4	1	1	6
5	0	3	4	7
6	1	1	1	3
7	4	1	1	6
8	5	0	0	5
9	6	0	1	7
10	6	0	0	6
11	0	5	4	9
12	0	4	0	4
13	5	1	1	7
14	5	1	1	7
15	4	0	0	4
16	4	0	1	5
17	5	0	1	6
18	5	0	0	5
19	3	0	1	4
20	6	0	0	6
21	6	1	0	7
22	5	0	0	5
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

Averages quoted in case

 Beer A
 Beer B
 Beer C
 Any

 5.043478
 5.4375
 5.666667
 5.266667