

April 19, 2023

Airbnb Investment Analysis Report

Regression Results

Regression A)

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.76440433							
R Square	0.58431397							
Adjusted R Square	0.58325893							
Standard Error	64.4603171							
Observations	396							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	1	2301240.16	2301240.16	553.830754	4.1362E-77			
Residual	394	1637122.2	4155.13248					
Total	395	3938362.35						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	22.4404166	5.70308192	3.9347877	9.8414E-05	11.2281393	33.6526939	11.2281393	33.6526939
accommodate	34.7447141	1.47638699	23.533609	4.1362E-77	31.8421325	37.6472956	31.8421325	37.6472956

$$\text{Price} = 22.440 + (34.745 * \text{accommodates})$$

$$(3.935) \quad (23.533)$$

i. The coefficient on accommodates, 34.755, means that each additional accommodate increases the price of the Airbnb by \$34.76. The coefficient is statistically significant because the corresponding $|t\text{-stat}| = 23.577 > 3$.

ii. The variation in accommodates somewhat explains the price variation but does not explain it well since the Adjusted R-Squared value is 0.583, and the closer this value is to 1, the better it explains the variation due to the model.

Regression B)

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.80658689							
R Square	0.65058241							
Adjusted R Square	0.6488042							
Standard Error	59.1744107							
Observations	396							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	2	2562229.28	1281114.64	365.864364	1.8503E-90			
Residual	393	1376133.08	3501.61088					
Total	395	3938362.35						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	3.05727822	5.69651675	0.53669257	0.59178367	-8.1421798	14.2567362	-8.1421798	14.2567362
accommodate	17.5619026	2.40793615	7.2933423	1.6806E-12	12.8278553	22.2959498	12.8278553	22.2959498
bedrooms	50.8834766	5.89385594	8.6333085	1.5046E-16	39.2960461	62.4709071	39.2960461	62.4709071

$$\text{Price} = 3.057 + (17.562 * \text{accommodates}) + (50.883 * \text{bedrooms})$$

$$(0.537) \quad (7.293) \quad (8.633)$$

If a rental accommodates 6 people instead of 5, the price increases by **\$20.24** on average, holding the number of bedrooms constant.

- Price (5 accommodates) = $-18.939 + (32.988 * 5) - (1.159 * 5^2) + (44.174 * 1)$
 $= -18.939 + 164.94 - 28.975 + 44.174 = \161.20
- Price (6 accommodates) = $-18.939 + (32.988 * 6) - (1.159 * 6^2) + (44.174 * 1)$
 $= -18.939 + 197.928 - 41.724 + 44.174 = \181.44
- Price(6 accommodates - 5 accommodates) = $181.44 - 161.20 = \$20.24$

Regression D)

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.82498243							
R Square	0.68059601							
Adjusted R Square	0.67483357							
Standard Error	56.9393024							
Observations	396							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	7	2680433.7	382919.1	118.108933	4.3106E-92			
Residual	388	1257928.65	3242.08416					
Total	395	3938362.35						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	30.3987715	10.8093913	2.81225563	0.00516943	9.14646106	51.651082	9.14646106	51.651082
accommodate	13.3182867	2.45741078	5.41964198	1.0511E-07	8.48677898	18.1497943	8.48677898	18.1497943
bedrooms	41.5790204	6.1364066	6.77579291	4.6088E-11	29.5142505	53.6437902	29.5142505	53.6437902
bathrooms	21.0922513	7.27809937	2.89804388	0.00396807	6.78280287	35.4016998	6.78280287	35.4016998
Entire House	-10.631432	10.1185391	-1.0506884	0.29405568	-30.52546	9.26259642	-30.52546	9.26259642
Private room	-43.390954	8.41469871	-5.1565666	4.0179E-07	-59.935067	-26.846841	-59.935067	-26.846841
Private room	-45.046813	9.27459409	-4.8570118	1.7317E-06	-63.281563	-26.812062	-63.281563	-26.812062
Shared room	-28.842959	26.3758757	-1.0935356	0.27483715	-80.700486	23.0145677	-80.700486	23.0145677

Price = 30.399 + (13.318 * accommodates) + (41.579 * bedrooms) + (21.092 * bathrooms) + ...
 (2.812) (5.420) (6.776) (2.898)

...(-10.631 * entire house) + (-43.391 * private room in apt) + (-45.047 * private room in house)...
 (-1.051) (-5.157) (-4.857)

... + (-28.843 * Shared room)
 (-1.094)

i. **Accommodates** - For each additional accommodate, the price increases by \$13.32 on average, holding constant the number of bedrooms, number of bathrooms, and property/house type. This makes sense because we would expect the price to increase with the number of guests.

Bedrooms - For each additional bedroom, the price increases by \$41.57 on average, holding constant the number of accommodates, number of bathrooms, and property type/house type. This makes sense because we would expect the price to increase with the number of bedrooms.

Bathrooms - For each additional bathroom, the price increases by \$21.09 on average, holding constant the number of accommodates, number of bedrooms, and property type/house type. This makes sense because we would expect the price to increase with the number of bathrooms

Entire House - For an entire house, the price is on average \$10.63 less than an entire apartment, holding constant the number of accommodates, number of bedrooms, and number of bathrooms. We do not think this makes sense since we would expect a house to be more expensive than an apartment because there is more space

Private Room in Apartment - For a private room in an apartment, the price on average is \$43.39 less than an entire apartment, holding constant the number of accommodates, number of bedrooms, and number of bathrooms. This makes sense because we would expect a private room in an apartment to be cheaper than the entire apartment because there is less space.

Private Room in House - For a private room in house, the price is on average \$45.05 less than an entire apartment, holding constant the number of accommodates, number of bedrooms, and number of bathrooms. This makes sense because we would expect a private room in a house to be less expensive than an entire apartment.

Shared Room - For the shared room, the price is on average \$28.84 less than an entire apartment, holding constant the number of accommodates, number of bedrooms, and number of bathrooms. This makes sense because we would expect a shared room to be cheaper than an entire apartment since it is not private.

ii. Holding constant accommodates, bedrooms, and bathrooms, the category with the highest prices is an entire apartment. This is because the other coefficients are negative, meaning all other property/house types cause a decrease in the price as compared to an entire apartment the omitted variable.

Regression E)

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.81206639							
R Square	0.65945183							
Adjusted R Square	0.65508583							
Standard Error	58.6428149							
Observations	396							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	5	2597160.25	519432.051	151.042486	6.6204E-89			
Residual	390	1341202.1	3438.97974					
Total	395	3938362.35						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-96.417825	40.4628114	-2.3828751	0.01765621	-175.97036	-16.865294	-175.97036	-16.865294
accommodates	17.4871667	2.39721047	7.29479821	1.685E-12	12.7740943	22.2002391	12.7740943	22.2002391
bedrooms	47.4894682	6.26936494	7.57484509	2.6355E-13	35.1634871	59.8154492	35.1634871	59.8154492
bathrooms	14.2431491	7.06100262	2.01715674	0.04436384	0.3607566	28.1255415	0.3607566	28.1255415
review_scores_location	9.13181307	4.19522156	2.17671771	0.03010088	0.88373341	17.3798927	0.88373341	17.3798927
Missing Reviews	94.7610591	40.4193952	2.34444525	0.01955638	15.2938874	174.228231	15.2938874	174.228231

$$\text{Price} = -96.418 + (17.487 * \text{accommodates}) + (47.489 * \text{bedrooms}) + (14.243 * \text{bathrooms}) + \dots$$

$$(-2.383) \quad (7.295) \quad (7.575) \quad (2.017)$$

$$\dots (9.132 * \text{review_scores_location}) + (94.761 * \text{Missing Reviews})$$

(2.177)

(2.344)

i. Review_scores_location is significant since the t-stat is greater 2. The lack of a review is also significant as it has a very high coefficient and the t-stat is also greater than 2

ii. The price difference between an Airbnb with the lowest location review and the highest location review was $(9.132 * 10) - (9.132 * 2) = 91.32 - 18.264 = \underline{\$73.06}$

Regression F)

Variables:

1. **Bedrooms** - The number of bedrooms each rental property has. This is important because it dictates how many guests the property can accommodate and indicates how large or small it is.
2. **Bathrooms** - The number of bathrooms on the property. This is important because it indicates how large the property is.
3. **Entire house** - Indicates that renters have the entire house, it indicates how much privacy guests have.
4. **Private room in Apartment** - Indicates renters do not have access to the entire property.
5. **Private room in House** - Indicates renters do not have access to the entire property.
6. **Shared room** - Indicates guests do not have access to the entire property, or a private room.
7. **Accommodates** - The owners recommendation of how many guests the property can sleep. This directly affects how large of a party can stay at each property.
8. **Location** - Where the property is located. Desirable locations near local attractions can increase the rental price, and make it more appealing.
9. **Missing Location Score** - If a property is new it may not have reviews, been given scores by guests yet, or on the contrary have biased reviews since most people who give reviews are biased towards loving or hating the property. Which means it is important to consider that bias when looking at a property's ratings.
10. **Review Score Rating** - How guests have rated their stay at the property. Higher scores indicate a more desirable rental property.
11. **Air Conditioning** - Does the property have air conditioning? Especially in the hotter months this amenity can make properties more desirable.
12. **Wireless Internet** - Does the property have wireless internet? A necessity in the 21st century that makes properties less desirable if they do not have it.
13. **Parking** - Does the property have free parking? A bonus that makes a property more desirable in alleviating parking headaches for guests.
14. **Pets Allowed** - Does the property allow guests to bring their pets? Since allowing pets is a risk the owner takes on it can boost the nightly rate.
15. **Family/kid friendly** - Is the property family and kids friendly? Generally these types of properties need more bedrooms to accommodate families which means these types of properties should have a higher nightly rate.
16. **Superhost** - Is the host a superhost, or verified host? This makes hosts more trustworthy meaning guests may not mind paying higher rates on their rentals.

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.83926996							
R Square	0.70437406							
Adjusted R Square	0.69189381							
Standard Error	55.4254849							
Observations	396							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	16	2774080.27	173380.017	56.4390946	8.9381E-90			
Residual	379	1164282.08	3071.98438					
Total	395	3938362.35						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-76.10746	48.432333	-1.5714184	0.11691992	-171.33719	19.1222745	-171.33719	19.1222745
accommodate	12.4018985	2.43409218	5.09508171	5.5101E-07	7.61588189	17.1879152	7.61588189	17.1879152
bedrooms	45.0876328	6.06779958	7.43063976	7.2416E-13	33.1568645	57.0184011	33.1568645	57.0184011
bathrooms	19.9205578	7.15763768	2.78311905	0.00565346	5.84690299	33.9942126	5.84690299	33.9942126
Entire House	-10.834782	9.9178017	-1.0924581	0.27532574	-30.33559	8.66602541	-30.33559	8.66602541
Private room	-41.82628	8.38976511	-4.9853935	9.4277E-07	-58.322597	-25.329964	-58.322597	-25.329964
Private room	-38.710804	9.25840993	-4.1811504	3.6058E-05	-56.915088	-20.506521	-56.915088	-20.506521
Shared room	-16.698468	26.2025816	-0.6372833	0.52432509	-68.21911	34.8221741	-68.21911	34.8221741
review_scores	9.1426461	4.85473573	1.8832428	0.060433	-0.4029439	18.6882361	-0.4029439	18.6882361
Missing Review	90.58592	45.0220829	2.01203308	0.04492361	2.06156594	179.110274	2.06156594	179.110274
review_scores	0.03988555	0.5140827	0.07758587	0.93819843	-0.970926	1.05069706	-0.970926	1.05069706
Air Conditioni	17.2330835	6.13531878	2.80883262	0.00522963	5.16955608	29.296611	5.16955608	29.296611
Wireless Inter	8.12779034	16.6695448	0.48758322	0.626127	-24.648585	40.9041657	-24.648585	40.9041657
Parking	-6.4428678	5.86585436	-1.0983682	0.27274103	-17.976563	5.09082715	-17.976563	5.09082715
Pets Allowed	29.0141878	7.63673348	3.79929297	0.00016898	13.9985143	44.0298614	13.9985143	44.0298614
Family/kid Fri	-9.3389313	6.19396623	-1.5077466	0.13245249	-21.517774	2.83991129	-21.517774	2.83991129
superhost	-7.1082436	6.85427439	-1.0370527	0.3003725	-20.585412	6.36892521	-20.585412	6.36892521

i. Adjusted R-squared is 0.692, and SEE is 55.425.

ii. Compared to question E, the adjusted R-squared in regression F is 0.037 more than regression E. This regression does a slightly better job of explaining variation in price, yet it is still not very good.

Regression G)

SUMMARY OUTPUT								
Regression Statistics								
Multiple R	0.83897218							
R Square	0.70387432							
Adjusted R Square	0.69379675							
Standard Error	55.2540589							
Observations	396							
ANOVA								
	df	SS	MS	F	Significance F			
Regression	13	2772112.14	213239.395	69.8456028	2.2136E-92			
Residual	382	1166250.21	3053.01103					
Total	395	3938362.35						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-71.131401	40.2890132	-1.7655285	0.07827383	-150.3474	8.08459563	-150.3474	8.08459563
accommodate	12.5555677	2.41511932	5.19873597	3.2762E-07	7.80697575	17.3041596	7.80697575	17.3041596
bedrooms	45.2209048	6.04159712	7.48492558	4.9862E-13	33.3419558	57.0998539	33.3419558	57.0998539
bathrooms	19.9834598	7.10465346	2.81272829	0.00516597	6.01433625	33.9525833	6.01433625	33.9525833
Entire House	-10.115275	9.84504485	-1.0274108	0.30487719	-29.473246	9.24269597	-29.473246	9.24269597
Private room	-40.333629	8.13060518	-4.9607167	1.0592E-06	-56.319972	-24.347286	-56.319972	-24.347286
Private room	-37.524354	9.03180905	-4.1546886	4.0224E-05	-55.282638	-19.76607	-55.282638	-19.76607
review_scores	9.58730316	4.01963733	2.38511646	0.01756061	1.68391835	17.490688	1.68391835	17.490688
Missing Review	90.6299331	38.5693998	2.34978853	0.01929235	14.7950296	166.464837	14.7950296	166.464837
Air Conditioni	17.9287561	5.99844514	2.98890057	0.00298087	6.13465224	29.72286	6.13465224	29.72286
Parking	-6.2923522	5.78708635	-1.0873092	0.27758576	-17.670884	5.08617944	-17.670884	5.08617944
Pets Allowed	28.9246497	7.60789755	3.80192419	0.00016707	13.966051	43.8832485	13.966051	43.8832485
Family/kid Fri	-9.1138951	6.15654329	-1.4803591	0.13960169	-21.218851	2.99106031	-21.218851	2.99106031
superhost	-6.8973389	6.66908114	-1.0342263	0.30168468	-20.010043	6.21536508	-20.010043	6.21536508

i. Adjusted R-squared is 0.694 and SEE is 55.254.

ii. Dropping the variables of shared room, review score rating, and wireless internet has made model G more precise, as the adjusted R-squared increased and the SEE decreased from models E and F.

H)

1. **Accommodates** - For each additional accommodate, the price increases by \$12.56 on average, holding constant number of bedrooms, number of bathrooms, property/house type, review_scores_location, missing_reviews, amenities, and superhost.
2. **Bedrooms** - For each additional bedroom, the price increases by \$45.22 on average, holding constant number of accommodates, number of bathrooms, property/house type, review_scores_location, missing_reviews, amenities, and superhost.
3. **Bathrooms** - For each additional bathroom, the price increases by \$19.98 on average, holding constant number of accommodates, number of bedrooms, property/house type, review_scores_location, missing_reviews, amenities, and superhost.
4. **Entire House** - If the property is an entire house, the price will be on average \$10.12 less than an entire apartment or shared room, holding constant number of accommodates, number of bedrooms, number of bathrooms, review_scores_location, missing_reviews, amenities, and superhost.
5. **Private room in apartment** - If the property is a private room in an apartment, the price will be on average \$40.33 less than an entire apartment or shared room, holding constant number of accommodates, number of bedrooms, number of bathrooms, review_scores_location, missing_reviews, amenities, and superhost.
6. **Private room in house** - If the property is a private room in a house, the price will be on average \$37.52 less than an entire apartment or shared room, holding constant number of accommodates, number of bedrooms, number of bathrooms, review_scores_location, missing_reviews, amenities, and superhost.
7. **Review_scores_location** - For each 1 point increase in the review score location, the price increases by \$9.59 on average, holding constant number of accommodates, number of bedrooms, number of bathrooms, property/house type, missing_reviews, amenities, and superhost.
8. **Missing_reviews** - If the property is missing review score location, the price increases by \$90.63 on average, holding constant number of accommodates, number of bedrooms, number of bathrooms, property/house type, amenities, and superhost.
9. **Air conditioning** - If the property has air conditioning, the price increases by \$17.93 on average, holding constant number of accommodates, number of bedrooms, number of bathrooms, property/house type, review scores location, missing review scores, amenities, and superhost.
10. **Parking** - If the property has free parking on the premises, the price decreases by \$6.29 on average, holding constant number of accommodates, number of bedrooms, number of bathrooms, property/house type, review scores location, missing review scores, amenities, and superhost.
11. **Pets allowed** - If the property allows pets, the price increases by \$28.29 on average, holding constant number of accommodates, number of bedrooms, number of bathrooms,

property/house type, review scores location, missing review scores, amenities, and superhost.

12. **Family/kid friendly** - If the property is family/kid friendly, the price decreases by \$9.11 on average, holding constant number of accommodates, number of bedrooms, number of bathrooms, property/house type, review scores location, missing review scores, amenities, and superhost.
13. **Superhost** - If the property is listed by a superhost, the price decreases by \$6.90 on average, holding constant number of accommodates, number of bedrooms, number of bathrooms, property/house type, review scores location, missing review scores, and amenities.

Investment Analysis

A) <https://www.redfin.com/MA/Boston/4-Anawan-Ave-02132/unit-7/home/185151507>

4 Anawan Ave #7, Boston, MA 02132

\$645,000
Est. \$4,538/mo [Get pre-approved](#)

2 Beds
2 Baths
973 Sq Ft

Go tour this home

WEDNESDAY 19 APR
THURSDAY 20 APR
FRIDAY 21 APR

Tour in person
Tour via video chat

“Est. Monthly Payment” = $4538 * 0.65 = \underline{\$2949.70}$

B)

Price = $-71.131 + (12.556 * \text{accommodates}) + (45.221 * \text{bedrooms}) + (19.983 * \text{bathrooms}) + \dots$
 $\dots (-10.115 * \text{entire house}) + (-40.334 * \text{private room in apt}) + (-37.524 * \text{private room in house}) \dots$
 $\dots + (9.587 * \text{review_scores_location}) + (90.630 * \text{Missing Review scores}) + (17.929 * \text{Air} \dots$
 $\dots \text{conditioning}) + (-6.292 * \text{parking}) + (28.925 * \text{pets allowed}) + (-9.114 * \text{family/kid friendly}) \dots$
 $\dots + (-6.897 * \text{superhost})$

Price = $-71.131 + (12.556 * 5) + (45.221 * 2) + (19.983 * 2) + (-10.115 * 0) + (-40.334 * 0) +$
 $(-37.524 * 0) + (9.587 * 8.167) + (90.630 * 0) + (17.929 * 1) + (-6.292 * 0) + (28.925 * 1) +$
 $(-9.114 * 0) + (-6.897 * 0) = \underline{\$247.21}$

Values for each variable:

- **Accommodates:** 5. We used the value of 5 accommodates as given in the assignment.
- **Bedrooms:** 2. The listing stated there were 2 bedrooms.
- **Bathrooms:** 2. The listing stated there were 2 bathrooms.
- **Entire house:** 0. Since it is not a house the value used is 0.
- **Private room in apt:** 0. Since it is not an apt or private room the value used is 0.
- **Private room in house:** 0. Since it is not a house or private room the value used is 0.
- **Review scores location:** 8.167. The average review score location from the data is 8.167.
- **Missing location review scores:** 0. The listing has information on the location.
- **Air conditioning:** 1. The listing states that it has cooling.
- **Parking:** 0. The listing does not say there is free parking on the premises.

- **Pets allowed:** 1. The listing states that pets are allowed.
- **Family/kid friendly:** 0. The listing does not mention anything about children or families
- **Superhost:** 0. Assuming I am not a superhost.

$$95\% \text{ Confidence Interval} = [247.21 - (2 * 55.25), 247 + (2 * 55.25)] = \underline{\underline{[136.71, 357.71]}}$$

C)

i. Expected monthly profit for 20 days rented = $(20 * 247.21) - 2949.70 - 400 = \underline{\underline{\$1594.50}}$

ii. In order to break even on the investment, the property would need to be rented on Airbnb for **14 days per month.**

$$0 = 247.21x - 2949.70 - 400$$

$$3349.7 = 247.21x \rightarrow \underline{\underline{x = 13.55}}$$

D) In conclusion, it is profitable to purchase this condo and rent it out on Airbnb, as we can see a decent expected monthly profit. We are somewhat confident that we would see a profit with our estimated price. However, the 95% confidence interval from our model is quite an extensive range of about \$200, which makes us less confident about the selected nightly rental price. Furthermore, a few risks are associated with an investment like this, such as possible low demand and difficulty renting the property for enough days each month to break even. Some other risks and considerations go along with purchasing property, such as damage or destruction to property and maintenance or upkeep of the property. Some limitations to our analysis are a small sample size to base our model on, possible variation in the cleaning fee as we used a fixed value of \$400 for our analysis, and not factoring in other potential costs like property tax or insurance.

E) While converting a condo or apartment to an Airbnb rental can be profitable in the long run, there are some ethical implications to consider. As Airbnb and other short-term rental sites become more popular, each property purchased can have more significant societal and economic implications. These investments could contribute to a housing shortage in certain areas, affecting homelessness rates as more and more people purchase properties that no one lives in. Additionally, this can contribute to gentrification and urban sprawl as more land is used to build houses, replacing other buildings, local businesses, and parks, ultimately leading to the destruction of the environment.

Table of Regression Output (t-statistic in parentheses)

Regression:	A	B	C	D	E	F	G
Accommodates	34.745*** (23.53)	17.562*** (7.293)	32.988*** (6.895)	13.318*** (5.420)	17.487*** (7.295)	12.402*** (5.095)	12.556*** (5.199)
Bedrooms		50.883*** (8.633)	44.174*** (7.271)	41.579*** (6.776)	47.489*** (7.575)	45.088*** (7.431)	45.221*** (7.485)
Bathrooms				21.092** (2.898)	14.243** (2.017)	19.921** (2.783)	19.983** (2.813)
Accommodates squared			-1.159*** (-3.711)				
Entire house				-10.631* (-1.05)		-10.835* (-1.092)	-10.115* (-1.027)
Private room in apartment				-43.391* ** (-5.157)		-41.826*** (-4.985)	-49.337*** (-4.961)
Private room in house				-45.047* ** (-4.857)		-38.711*** (-4.181)	-37.524*** (-4.155)
Shared room				-28.843* (-1.09)		-16.698 (-0.637)	
Review_scores_location					9.132** (2.177)	9.142* (1.883)	9.587** (2.385)
Missing Reviews dummy					94.761** (2.344)	90.596** (2.012)	90.630** (2.350)
Review_scores_rating						0.040 (0.078)	
Air Conditioning						17.233** (2.809)	17.929** (2.989)
Wireless Internet						8.128 (0.488)	

