

Coffee Study

Ochiwar

7/10/2020

Contents

Load Weekly Data	1
Glimpse Data	2
Personal Notes	3
List of African Countries	4
Tidy and Get Average Scores	4
Avg Category Scores	5
Make Overall Score Plot	6

Load Weekly Data

Glimpse Data

```
## Rows: 1,339
## Columns: 43
## $ total_cup_points <dbl> 90.58, 89.92, 89.75, 89.00, 88.83, 88.83, 88....
## $ species <chr> "Arabica", "Arabica", "Arabica", "Arabica", "...
## $ owner <chr> "metad plc", "metad plc", "grounds for health...
## $ country_of_origin <chr> "Ethiopia", "Ethiopia", "Guatemala", "Ethiopi...
## $ farm_name <chr> "metad plc", "metad plc", "san marcos barranc...
## $ lot_number <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N...
## $ mill <chr> "metad plc", "metad plc", NA, "wolensu", "met...
## $ ico_number <chr> "2014/2015", "2014/2015", NA, NA, "2014/2015"...
## $ company <chr> "metad agricultural developmet plc", "metad a...
## $ altitude <chr> "1950-2200", "1950-2200", "1600 - 1800 m", "1...
## $ region <chr> "guji-hambela", "guji-hambela", NA, "oromia",...
## $ producer <chr> "METAD PLC", "METAD PLC", NA, "Yidnekachew Da...
## $ number_of_bags <dbl> 300, 300, 5, 320, 300, 100, 100, 300, 300, 50...
## $ bag_weight <chr> "60 kg", "60 kg", "1", "60 kg", "60 kg", "30 ...
## $ in_country_partner <chr> "METAD Agricultural Development plc", "METAD ...
## $ harvest_year <chr> "2014", "2014", NA, "2014", "2014", "2013", "...
## $ grading_date <chr> "April 4th, 2015", "April 4th, 2015", "May 31...
## $ owner_1 <chr> "metad plc", "metad plc", "Grounds for Health...
## $ variety <chr> NA, "Other", "Bourbon", NA, "Other", NA, "Oth...
## $ processing_method <chr> "Washed / Wet", "Washed / Wet", NA, "Natural ...
## $ aroma <dbl> 8.67, 8.75, 8.42, 8.17, 8.25, 8.58, 8.42, 8.2...
## $ flavor <dbl> 8.83, 8.67, 8.50, 8.58, 8.50, 8.42, 8.50, 8.3...
## $ aftertaste <dbl> 8.67, 8.50, 8.42, 8.42, 8.25, 8.42, 8.33, 8.5...
## $ acidity <dbl> 8.75, 8.58, 8.42, 8.42, 8.50, 8.50, 8.50, 8.4...
## $ body <dbl> 8.50, 8.42, 8.33, 8.50, 8.42, 8.25, 8.25, 8.3...
## $ balance <dbl> 8.42, 8.42, 8.42, 8.25, 8.33, 8.33, 8.25, 8.5...
## $ uniformity <dbl> 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 10....
## $ clean_cup <dbl> 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1...
## $ sweetness <dbl> 10.00, 10.00, 10.00, 10.00, 10.00, 10.00, 10....
## $ cupper_points <dbl> 8.75, 8.58, 9.25, 8.67, 8.58, 8.33, 8.50, 9.0...
## $ moisture <dbl> 0.12, 0.12, 0.00, 0.11, 0.12, 0.11, 0.11, 0.0...
## $ category_one_defects <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ quakers <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ color <chr> "Green", "Green", NA, "Green", "Green", "Blui...
## $ category_two_defects <dbl> 0, 1, 0, 2, 2, 1, 0, 0, 0, 4, 1, 0, 0, 2, 2, ...
## $ expiration <chr> "April 3rd, 2016", "April 3rd, 2016", "May 31...
## $ certification_body <chr> "METAD Agricultural Development plc", "METAD ...
## $ certification_address <chr> "309fcbf77415a3661ae83e027f7e5f05dad786e44", "...
## $ certification_contact <chr> "19fef5a731de2db57d16da10287413f5f99bc2dd", "...
## $ unit_of_measurement <chr> "m", "m", "m", "m", "m", "m", "m", "m", "m", ...
## $ altitude_low_meters <dbl> 1950.0, 1950.0, 1600.0, 1800.0, 1950.0, NA, N...
## $ altitude_high_meters <dbl> 2200.0, 2200.0, 1800.0, 2200.0, 2200.0, NA, N...
## $ altitude_mean_meters <dbl> 2075.0, 2075.0, 1700.0, 2000.0, 2075.0, NA, N...
```

Personal Notes

- How does the processing method affect overall evaluation
- Does the part of the country where coffee is grown affect evaluation
- Does the difference in harvest year and grading date impact evaluation
- Does altitude have an impact on evaluation. The higher you go the cooler it becomes
- Relationship between color of grain and country of bean/mill origin
- total cup points...whats that?

List of African Countries

x

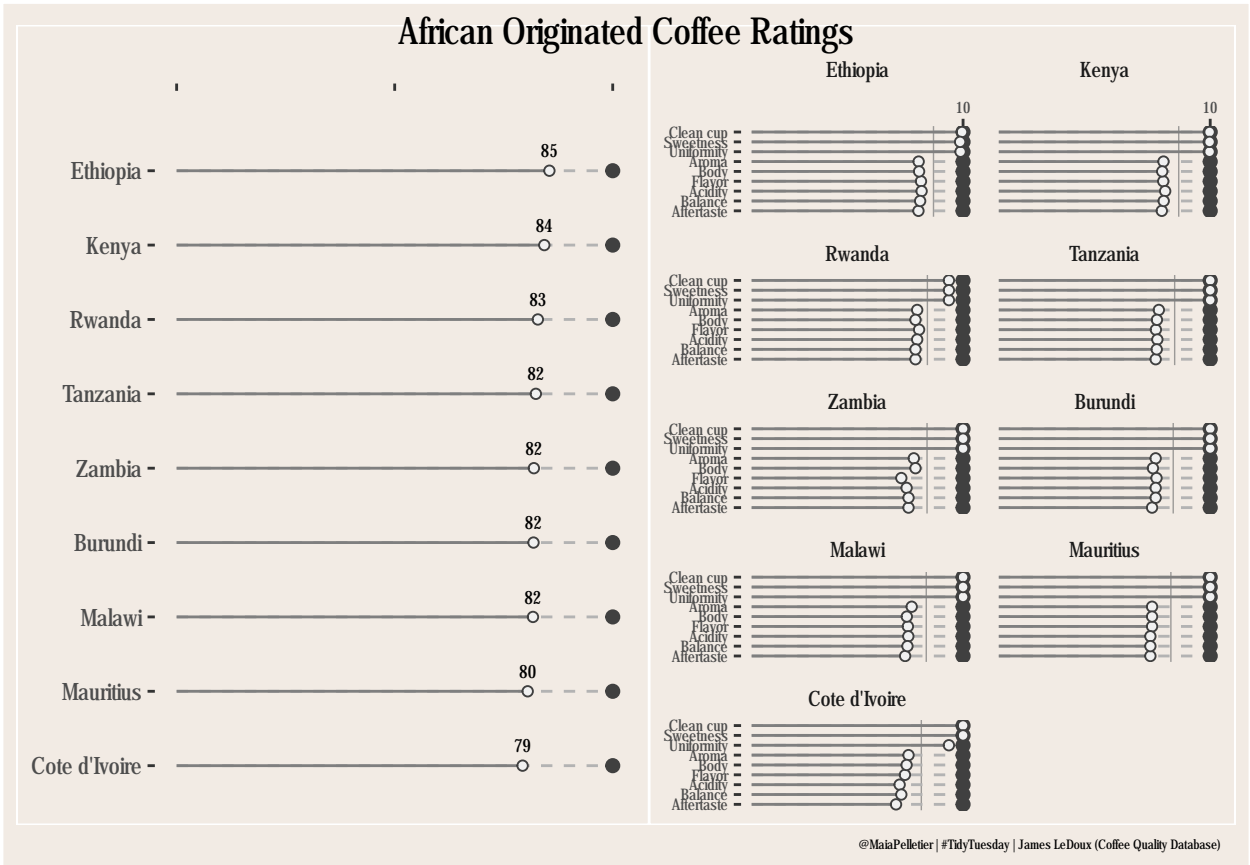
Ethiopia
Kenya
Burundi
Rwanda
Malawi
Zambia
Mauritius
Cote d'Ivoire
Tanzania

Tidy and Get Average Scores

country_of_origin	total_cup_points	aroma	flavor	aftertaste	acidity	body	balance	uniformity	clean_cup	sweetness	cupper_points	moisture
Ethiopia	85.48	7.90	8.01	7.89	8.04	7.92	7.97	9.88	9.95	9.86	8.05	0.08
Kenya	84.31	7.79	7.78	7.71	7.87	7.73	7.80	9.97	9.97	9.97	7.71	0.08
Rwanda	82.83	7.83	7.92	7.75	7.83	7.75	7.75	9.33	9.33	9.33	8.00	0.11
Tanzania	82.37	7.57	7.43	7.42	7.50	7.48	7.47	10.00	10.00	10.00	7.49	0.12
Zambia	81.92	7.67	7.08	7.42	7.33	7.75	7.42	10.00	10.00	10.00	7.25	0.00
Burundi	81.83	7.42	7.46	7.25	7.42	7.29	7.42	10.00	10.00	10.00	7.58	0.06
Malawi	81.71	7.57	7.39	7.26	7.41	7.34	7.37	10.00	10.00	10.00	7.38	0.12
Mauritius	80.50	7.25	7.25	7.17	7.17	7.25	7.17	10.00	10.00	10.00	7.25	0.12
Cote d'Ivoire	79.33	7.42	7.25	6.83	7.00	7.33	7.08	9.33	10.00	10.00	7.08	0.13

Avg Category Scores

Make Overall Score Plot



country_of_origin	total_cup_points	category	score	avg_score
Ethiopia	85.48	Aroma	7.90	8.602222
Ethiopia	85.48	Flavor	8.01	8.602222
Ethiopia	85.48	Aftertaste	7.89	8.602222
Ethiopia	85.48	Acidity	8.04	8.602222
Ethiopia	85.48	Body	7.92	8.602222
Ethiopia	85.48	Balance	7.97	8.602222
Ethiopia	85.48	Uniformity	9.88	8.602222
Ethiopia	85.48	Clean cup	9.95	8.602222
Ethiopia	85.48	Sweetness	9.86	8.602222
Kenya	84.31	Aroma	7.79	8.510000
Kenya	84.31	Flavor	7.78	8.510000
Kenya	84.31	Aftertaste	7.71	8.510000
Kenya	84.31	Acidity	7.87	8.510000
Kenya	84.31	Body	7.73	8.510000
Kenya	84.31	Balance	7.80	8.510000
Kenya	84.31	Uniformity	9.97	8.510000
Kenya	84.31	Clean cup	9.97	8.510000
Kenya	84.31	Sweetness	9.97	8.510000
Rwanda	82.83	Aroma	7.83	8.313333
Rwanda	82.83	Flavor	7.92	8.313333
Rwanda	82.83	Aftertaste	7.75	8.313333
Rwanda	82.83	Acidity	7.83	8.313333
Rwanda	82.83	Body	7.75	8.313333
Rwanda	82.83	Balance	7.75	8.313333
Rwanda	82.83	Uniformity	9.33	8.313333
Rwanda	82.83	Clean cup	9.33	8.313333
Rwanda	82.83	Sweetness	9.33	8.313333
Tanzania	82.37	Aroma	7.57	8.318889
Tanzania	82.37	Flavor	7.43	8.318889
Tanzania	82.37	Aftertaste	7.42	8.318889
Tanzania	82.37	Acidity	7.50	8.318889
Tanzania	82.37	Body	7.48	8.318889
Tanzania	82.37	Balance	7.47	8.318889
Tanzania	82.37	Uniformity	10.00	8.318889
Tanzania	82.37	Clean cup	10.00	8.318889
Tanzania	82.37	Sweetness	10.00	8.318889
Zambia	81.92	Aroma	7.67	8.296667
Zambia	81.92	Flavor	7.08	8.296667
Zambia	81.92	Aftertaste	7.42	8.296667