

The cocoa market lacks:

- an industry definition of specialty/craft/fine chocolate,
- standards for defining cacao quality, or specialty or fine cacao,
- differentiation from or within the so-called premium chocolate sector,
- data collection and verifiability on most of the above,
- transparency into cacao and chocolate production size and specialty pricing at the level of individual companies, and
- institutional resources to support collecting and publishing most of these statistics.



Key questions

- What would a producer-centric approach to cacao quality look like?
- What benefits might full cacao producer engagement in discussions on quality bring to overall global cocoa sector sustainability?



Major finding

 A differentiated education and communication strategy with full cacao producer engagement (as opposed to solely involvement or non-engagement) is essential, but attention to this is still lacking in most discourse on cacao quality.



Ixtutz cacao



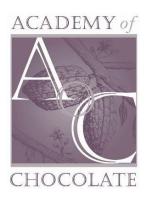
ho' kab' "five honeys", the name for Ixtutz



Awards systems





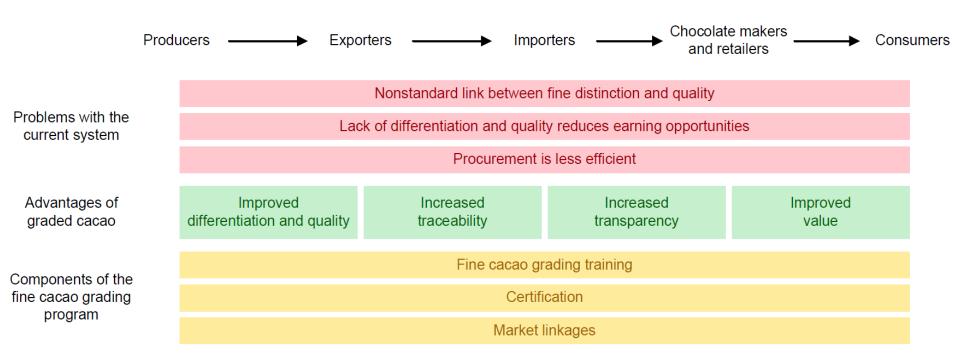








Vision for cacao quality grading





FCCI cacao grading goals

- A cross-culturally relevant communication tool for cacao quality that engages supply chain stakeholders in providing objective feedback to enable informed decision making and mitigate rejections and misunderstandings about quality
- Rigorous training, calibration, and (eventually) certification of cacao graders worldwide
- Instructors teach in their own countries
- Offer cacao quality grading services worldwide
- Justify price premiums
- Contribute data to research on efficacy and relevance of cacao grading standards



FCCI evaluation of cacao

Physical evaluation

- External evaluation
- Cut test

Sensory evaluation

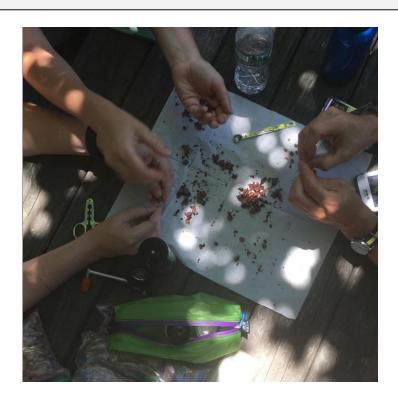
Organoleptic testing following fixed sampling protocols





FCCI cacao sampling protocol

- Winnow 30-50 raw beans from a sample
- Grind in coffee blade grinder to ~500 microns
- Taste 1 teaspoon and evaluate







	Sample	Name	Date threshold extreme
External evaluation, whole beans		Organoleptic evaluation, shelled ground beans	
External attributes		Taste	
Basic attributes (100g beans)	External defects (100 beans, count)	Acidity	
Bean count	Black	Bitterness	
Moisture content %	Severely moldy	Astringency	
Size (qualitative)	Germinated	Aroma	
Detritus % by weight	Insect damaged	Positive/Neutral	Defeative
	Clumped		Defective
	Cut	Cocoa	Hammy
Raw bean aroma		Fresh fruit Dried fruit	Smoky
	Defeative		Musty/Moldy
Positive/Neutral	Defective	Vegetal	Ammonia
Vinegar	Hammy	Herbal	Putrid/Garbage
Cocoa	Smoky	Floral	Rancid/Cheesy
Nutty	Musty/Moldy	Nutty	Medicinal/Phenolic
Fruity	Putrid/Garbage	Spicy Caramel/Malty/Candied	Sulfurous/Rubbery
Spicy	Rancid/Cheesy	Provide the contraction of the parties of the Chicago and Contraction	Pungent
Floral	Meaty	Buttery	Sweaty
	Animal		Metallic
Cut test (100 beans, count	:)		Meaty
Fermentation level	Defective		Woody
Fully brown	Slaty		Animal
Partially brown	Moldy		Heated fat
Violet	Germinated	Overall impression	
Violet unfissured	Insect damaged	Overall	version 1.0
Other attributes	Overfermented		Fine Cacao and Chocolate Institute © 2016

FCC

FCCI cacao sampling protocol 2015-2017

- In use in 27 countries
- Adopted by >250 stakeholders, Cacao Quality Consortium
- Classes in United States (x2), Peru,
 Brazil, France; upcoming in Southeast
 Asia, Latin America
- Research studies in Brazil, and upcoming in Colombia, Ecuador, Papua New Guinea, and the United States
- Partnerships



What works?

- Advantages over evaluation of liquor or chocolate
 - Simple
 - Repeatable: few variables
 - Inexpensive: equipment costs under \$50 USD
 - Highly scalable
- Grassroots social networks, modeling of use cases
- Differentiated education program
- Multi-stakeholder engagement
- Growing partnerships through policy and research



 Is the specialty market fundamentally transformative of the cacao-chocolate supply chain?



Thank you!

Please keep in touch:

- carla@chocolateinstitute.org
- https://chocolateinstitute.org
- @carladmartin, @chocoinstitute

