





Peru is a major regional producer that has significant uplift potential due to high R&R need in areas affected by La Roya

Quick facts: Peru is the 4th biggest Latin American producer

Production share

Global & region

Production '000 tons, 2014

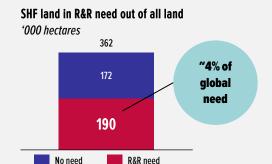
9th in world 4th in LA Coffee land¹ '000 hectares, 2014

362

Varieties *Arabica-Robusta*

~100% A 0% R

R&R need: ~70% of land is in need of R&R



Drivers of R&R need:

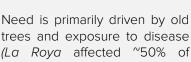
coffee growing areas), and to a

lesser extent by climate change

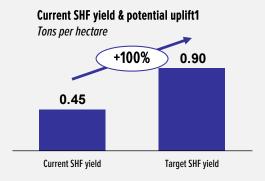








Uplift potential: Significant uplift potential given low current SHF yields

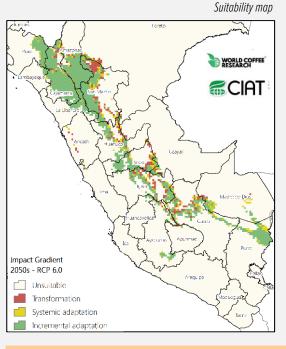


Potential increase in supply

~10-40%

Total national supply could increase ~10-40% if R&R and GAP is implemented on all SHF land in need of R&R2

Viability: climate change could affect lowest altitudes areas



- Overall, Peru is forecast to be relatively mildly affected by climate change for coffee production
- Coffee growing area in low altitudes are exposed to climate change risk
- Coffee crowing areas in the North East look to be hardest affected

Other viability considerations

- Peru is the world's leading exporter of organic coffee. SHFs, who are mostly unable to pay for fertilizers, are the main producers of organic coffee
- A growing number of SHFs seek out specialized certification schemes to access foreign specialty markets and earn premiums
- The coffee sector generates more than 850,000 jobs in remote and impoverished areas of the country. The government promotes coffee production as an alternative crop to coca leaf cultivation

Notes: (1) The current yield is calculated on the basis of SHF production divided by SHF land area, the potential yield uplift comes from the GCP, Peru: GCP, Peru: GCP: Economic Viability of Coffee farming, 2017; (2) Rounded to the nearest 5%, estimate assumes that R&R and GAP increase yields with 100%, and the range reflects a 25-100% R&R success rate. Sources: FAO Statistics database; ICO statistics; GCP and Technoserve, Economic Viability of Coffee Farming, 2017; USDA, Annual Coffee Report, 2017; Federacion Internacional de Productores Agropecuarios, Las cooperativas de Café en Peru: experiencias y perspectivas, 2009; Ministerio de Agricultura y Riego; Plan Nacional de Renovacion de cafetales, 2014; Dalberg interviews







About 60% of farmers in Peru are SHFs, some of which have benefitted from renovation programs following the *La Roya* outbreak

Farmer segmentation: Production is split



National production is split between SHFs and large and medium farmers

About 59% of farmers are SHFs (30% in tight value chains and a majority in loose value chains). 39% are medium farmers (between 5 and 50 hectares) and 2% hold land larger than 50 hectares

SHFs 0000

132 ~1% of global SHFs¹

hectares

SHF land '000 hectares

260 ($^{\circ}$ 70% of national land) – farm size typically $^{\circ}$ 2

SHF production '000 tons

110 (~70% of national production)

Assessment of SHF orgs.

Coops obtain better prices, improve post-harvest processing and marketing strategies of SHFs -~30% of SHFs are linked to coops

Links to market

Non organized farmers are linked to markets by traders

Enabling environment for R&R: Government support, but capacity for R&R is low

Political environment



- Coffee share of GDP: N/A [Coffee share of exports: 2.6%] (2011)
- · The government of Peru has recently defined the coffee sector as a national priority.
- 2013: Implementation of a national renovation program with a USD 70 million budget
- · The national renovation plan supports development of nurseries
 - Seeds produced in private seedling nurseries are controlled and certified by the National Institute of Agricultural Innovation (INIA)



Availability of

inputs





SHFs in loose value chains have limited access to finance

 Many SHFs complain about credit terms (8 year tenor, 10% interest rate) from AgroBanco, though these are more favorable compared to local financial institutions



- Cooperatives have little capacity and experience in providing high quality TA
- The Junta Nacional del Café acts as a service provider. but has limited field presence

Examples of R&R programs: Past R&R programs have focused on renovating areas affected by La Roya

- Root Capital Coffee Farmer Resilience Initiative (since 2013): Root Capital lent USD 2.7 million to farmer organizations in Peru and trained them to deliver loans to their members
- Government of Peru Coffee renovation program (2012-2017): The Peruvian government channeled concessional loans to SHFs to encourage the renovation of 80,000 hectares

Notes: (1) Assuming a global SHF population of 20 million. Sources: FAO Statistics database; ICO statistics database; ICO statistics decapé en Peru: experiencias y perspectivas, 2009; Ministerio de Agricultura y Riego; Plan Nacional de Renovacion de cafetales, 2014; Dalberg interviews