

Locations of harvestable bamboo in the Jama - Coaque Reserve

- \* Information was collected along the major trails within the reserve from 8/20/12 - 9/20/12
- \* Not all locations of bamboo were recorded, only those along the major trails (did not have time to do the connecting trails, such as Achiote, Naranja, Transversal, etc.), and not those locations that were far away from a trail (for accessibility and harvesting purposes).
- \* All characteristics are recorded as one is ascending UP the trail away from the bamboo house
- \* I collected data on slope steepness, orientation, and any other noticeable characteristics, and these can be used in the future to determine under what circumstances bamboo (G. angustifolia) grows best and where to start growing it in the reserve.
- \* Next steps needed: GPS locations of the harvestable bamboo, determine harvest locations for the immediate future, determine location to plant and grow bamboo seedlings (see notes from Carlos the bamboo farmer and other notes in G. angustifolia folder)
- \* "White" = mature bamboo with white spots, ready to be harvested. "Green" = fully grown height-wise, but not mature or harvestable yet. "Brown" = very young bamboo with culm sheaths still intact (hasn't reached its full height yet)

**Sendero Ronquillo (8/20/12 - 8/21/12)**

- 1.05 Km up trail: left side, opposite the stream. Somewhat south facing, but in a relatively flat valley floor. About 30 bamboo: 1/2 white, 1/6 dead, 1/6 green, 1/6 brown. Right next to where stream crosses the trail. Dense forest.
- 200 m further: about 30 more bamboo, part of same stand as above probably. Slope facing S/SW. 1/2 white, 1/6 dead, 1/6 brown, 1/6 green. Dense forest.
- 1.5 Km up trail: Patch that has been previously harvested - both sides of trail are in an open clearing. Some growing off in the distance to the left. A few young ones still standing (green and brown), but no mature white ones (not a sustainable way to harvest!). S/SW facing. Bigger stand to the right of clearing - at least 30 bamboo - 2/3 are white. Spread out to the right of trail as hiking through and past the clearing.
- 1.6 Km just past the clearing: about 10 white bamboo in the dense forest, and a few younger ones near/in the open areas right before the first switchback. some to the right of the trail just past that, mostly mature white (connected to the stands mentioned before?)
- After two switchbacks - more on the left, but connected to those already mentioned. Maybe 1/2 white, 1/3 dead, 1/6 green & brown. At least 20 mature white. W/SW facing.
- 1.7 Km - 1.75 Km: some to the right of those mentioned above, further up the trail - 1/2 white, 1/6 dead, 1/3 green & brown. Dense forest, W/SW facing.
- A little bit of bamboo at the junction of Ronquillo and El Dorado - about 10 or so trees total.

**Aguas Frias (8/22/12)**

- By Cafetal (also Sendero Sagrado: see Kate's notes in folder): NW facing, maybe 20 white bamboo. 2/3 green, 1/3 white in whole stand.
- About 100m: R side of trail: about 3 green bamboo, 5 white, 4 brown, next to creek, just before trail crosses creek. NW facing.
- 800 - 900 Km: After two trail junctions. About 20-30 white. 1/2 white, 1/3 green, 1/6 dead & brown in whole stand. S/SW facing. On one side of ridge - more further downslope away from trail.
- About 950 Km: Left side of trail, then more on right side: 2/3 white, 1/3 green & brown & dead. Probably 80-100 white bamboo in the whole stand. N/NW facing.
- 1 - 1.1 Km: 2/3 white. Whole stand on the ridge and on either side of the ridge!

**Sendero Escondido (8/30/12)**

- 215m: L side of trail, NW facing. 3 white bamboo, 6 green, 3 brown. Stream on right side of trail, some opposite the river, but too far away from trail to analyze. A few more a little ways up the trail about 50m: mostly green/brown, about 20 trees total.
- 400 - 500m: Some on other side of stream
- 700m: about 5 white, 4 green, 1 brown, a few dead - small stand.
- 820m: 8 green, 20 white, 5 brown, a few dead. N facing.
- 1.3 Km: Mostly white, left side of trail. About 20-30 white, 8 green, 8 brown, a few dead. NE facing. Steep slope.
- 1.45-1.5 Km: Both sides of trail, NE & NW facing (most are on NE, left side). At least 40 white, 50 green, and 50 dead/brown. Isolated smaller clumps, but part of one large stand. Nearer to the cloud forest - more mossy vegetation!

**Cerro Sagrado (8/31/12) \*\*\*Can't harvest from!\*\*\***

- 700m-1.25Km: W/SW facing, right side of trail initially, then both sides. At least probably 100 white bamboo, many are away from the trail. 1/5 white, 1/2 dead, 1/5 green, 1/10 brown in whole stand. Maybe not a good place to harvest from anyway because lots are dead!
- Farther up the trail less are dead: at 1 Km (junction with Transversal) to 1.25 Km (where ridge starts): 1/3 white, 1/3 dead, 1/3 green & brown in whole stand. NE - N facing. Most bamboo are within the NW/N/NE facing areas.

**Armadillo (9/4/12)**

- 25m: Right side: 7 green, 2 white. N/NW facing. More in back, mostly green. L side - mostly dead/green.
- 100m: L side: About 10 white: 1/3 white, 1/3 green, 1/3 brown & dead. More further beyond the trail. NE facing.
- 215m: small clump, mostly (90%) dead, no white bamboo. A little further up trail - healthier ones: about 20 white bamboo. 1/3 white, 1/3 green, 1/3 mostly dead in whole stand. L side of trail. About 15 m further up the trail: small clump on the left: about 10 white bamboo, same ratios. All NE facing. After this the ridge and slope gets steeper

from 400m on, maybe bamboo don't grow well on slopes that steep (40-45 degrees)? There is a very small clump of bamboo at about 700m, 2 green and about 10 dead. On edge of the ridge before it drops off steeply. NE facing.

### **Coati (9/10/12)**

- 50m: R side, N facing. At least 20 white bamboo. 2/3 white, 2/3 green & brown in whole stand (a few, if none, dead).
- 150-200m: L side, N facing. Large stand, 2/3 white, 1/3 green & brown in whole stand. Some was cut in the past, old stumps. Easy to go off-trail here and go to the left into this stand! It crosses over to the left side from about 300-390m up the trail. Lots of white bamboo from 100-380 m near the trail!
- 190-230m: R side - Large stand (bamboo was harvested from here later in the month!)
- After 400m: there is a little bamboo on the left side, but it is far away from the trail.
- About 900m: about 20 white bamboo, 2/3 white, 1/3 green & brown in whole stand. N facing. But harvesting the ones closer to the bamboo house makes the most sense.

### **Punta Vista (9/12/12)**

- 1.15 Km: L side. Large stand. 2/3 white, 1/3 green & brown in whole stand. Probably at least 100 white bamboo. N/NW facing. A little further up there are some on the R side too, but harder to see. not as many as on the left side.
- 1.4 Km: Smaller stand on the left, about 50 white bamboo. 2/3 white, 1/3 green & brown & dead in whole stand.
- There is some interspersed bamboo after that when the trail(s) get really faint, but can't see well from the trail.
- Trail meets up with Ronquillo at 1.6 Km (the easiest way is to stay to the left going through the faint trail part) For the rest of the bamboo, see the Ronquillo notes.

### **El Dorado (9/12/12)**

- Right at the start of the trail (junction of Ronquillo and El Dorado) there is some bamboo up on the ridge, only a few nearby though, the rest drop off the left side of the ridge (E/NE facing).
- 150-200m: Along the ridge crest, not a lot though. 1/3 white, 1/2 dead, 1/6 green in whole stand.
- 200-400m: along the ridge and then as the trail drops down to the SW there is more, same ratios as above. Very mossy bamboo! One descent-sized patch right at the junction of El Dorado and Emergentes, about 15 or so white bamboo.
- 420-800m: There is some off to the left of the trail dropping down to the NE, and also some still along the ridgecrest. None to the SW sloping side!

### **Emergentes (9/12/12)**

- One small patch about 2/3 way down from the junction of El Dorado. Hard to follow this trail at times, splits off along the creekbed. meets back up with Ronquillo at about 1.4 Km by the small log bridge. (Also junction of Achioté?)

**Matapalo** (9/15/12)

- 300m: Left side - small clump, about 8 white, 4 green. NE facing. closer to the creek drainage.
- 400m: NE facing: both sides of trail on ridge - maybe 50-60 white bamboo. 3/4 white, 1/4 green & brown & dead.
- About 600m: 8 white bamboo. NW facing. Same ratios as above.

**Gavilan:** NO BAMBOO!

**Montanita** (9/20/12)

- 800m: small stand on right side of trail, if you hike the "triangle" counter-clockwise. SW facing. About 20 white bamboo. 1/3 white, 1/3 green, 1/3 brown. Continues down the hill further.