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**Table 2.** Data on bill length for 26 hummingbird species in the Brazilian Atlantic Forest.

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**Table 1**. Data on nectar volume and concentration, corolla length, average visitor bill length and sources for 152 hummingbird-pollinated plant species in the Brazilian Atlantic Forest. Ref = sources of data: [Buzato *et al.* (2000)](#_ENREF_1) (a), [Sazima and Sazima (1999)](#_ENREF_16) (b), [Rocca-de-Andrade (2006)](#_ENREF_13) (c), [Lopes (2002)](#_ENREF_9) (d), [Lenzi *et al.* (2006)](#_ENREF_8) (e), [Filho and Machado (2001)](#_ENREF_5) (f), [Coelho (2013)](#_ENREF_4) (g), [Canela (2006)](#_ENREF_2) (h), [Fonseca (2007)](#_ENREF_6) (i), [Galetto *et al.* (2000)](#_ENREF_7) (j), [Machado and Semir (2006)](#_ENREF_10) (k), [Mendonça and Anjos (2006)](#_ENREF_11) (l), [Sigrist and Sazima (2002)](#_ENREF_17) (m), [Sanmartin-Gajardo and Sazima (2005)](#_ENREF_15) (n), [Rocca and Sazima (2008)](#_ENREF_14) (o) and [Canela and Sazima (2003)](#_ENREF_3) (p).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Families** | **Species** | **Vol. (µl)** | **Sugar conc. (%)** | **Corolla length (mm)** | **Average bill length (mm)** | **Ref** |
| Malvaceae | *Abutilon regnellii* | 16.6 | *18.3* | 32.7 | 22.0 | a |
| Malvaceae | *Abutilon rufinerve* | 17.9 | *13* | 16 | 22.0 | a |
| Bromeliaceae | *Acanthostachys strobilacea* | 9.4 | *25.3* | 18.8 | - | b |
| Bignoniaceae | *Adenocalyma sp.* | 25.8 | 25 | 35.7 | - | c |
| Bromeliaceae | *Aechmea bromeliifolia* | 16.1 | *28.1* | 15.1 | - | b |
| Bromeliaceae | *Aechmea coelestis* | 9 | 27.3 | 23 | 26.0 | c |
| Bromeliaceae | *Aechmea distichantha* | 18.8 | *25.4* | 12.9 | 26.0 | a, b |
| Bromeliaceae | *Aechmea fulgens* | 10.6 | *10.6* | 20 | 22.5 | d |
| Bromeliaceae | *Aechmea gamosepala* | 20.2 | 35 | 17.9 | - | c |
| Bromeliaceae | *Aechmea lindenii* | 16.7 | *26* | 10.5 | 35.0 | e |
| Bromeliaceae | *Aechmea lingulata* | 3.4 | *45* | 12 | - | f |
| Bromeliaceae | *Aechmea miniata* | 20.2 | *26.5* | 16.8 | 21.5 | g |
| Bromeliaceae | *Aechmea muricata* | 31 | *41* | 31.7 | 27.8 | d |
| Bromeliaceae | *Aechmea nudicaulis* | 16.6 | 26.4 | 12.2 | 23.6 | a, c, i, k |
| Bromeliaceae | *Aechmea ornata* | 45.8 | 28.1 | 17.7 | 29.5 | c, k |
| Bromeliaceae | *Aechmea pectinata* | 38.5 | 28 | 25.5 | 25.0 | a, c, p |
| Bromeliaceae | *Aechmea tormentosa* | 65 | *65* | 30.9 | - | d |
| Bromeliaceae | *Aechmea vanhoutteana* | 21.5 | 26.8 | 10 | 17.5 | h |
| Ericaceae | *Agarista oleifolia* | 2.9 | *11.5* | 10.1 | - | a |
| Alstroemeriaceae | *Alstroemeria inodora* | 10.3 | *18.1* | 30.7 | 33.0 | a |
| Bromeliaceae | *Billbergia amoena* | 57.5 | 25.4 | 40.5 | 33.0 | c, k |
| Bromeliaceae | *Billbergia distachia* | 20.1 | *26.5* | 40.5 | 27.5 | a |
| Bromeliaceae | *Billbergia morelii* | 16 | *16* | 5.1 | 27.8 | d |
| Bromeliaceae | *Billbergia pyramidalis* | 41.8 | *33.3* | 38.3 | 35.0 | a |
| Alstroemeriaceae | *Bomarea salsilloides* | 25.3 | *11.6* | 31 | 17.6 | a, d |
| Bromeliaceae | *Bromelia plumieri* | 28 | *44* | 30.5 | 28.4 | f, d |
| Scrophulariaceae | *Buddleja brasiliensis* | 1.8 | *18.9* | 9.3 | 14.0 | a |
| Marantaceae | *Calathea crocata* | 9.5 | *18.5* | 23.3 | 23.9 | g |
| Fabaceae | *Camptosema scarlatinum* | 10.3 | *25.1* | 29.7 | 23.0 | a |
| Bromeliaceae | *Canistropsis billbergioides* | 13.6 | 20.1 | 21.7 | - | c |
| Bromeliaceae | *Canistrum aurantiacum* | 29.1 | *30* | 4 | 26.4 | f |
| Bromeliaceae | *Canistrum terminalis* | 15.2 | *30.3* | 29.6 | 35.0 | a |
| Brassicaceae | *Capparis flexuosa* | 59 | *27.4* | 10 | 21.0 | i |
| Lobeliaceae | *Centropogon cornutus* | 28.9 | *22.7* | 43.4 | 32.8 | a, d, g |
| Solanaceae | *Cestrum corymbosum* | 5.5 | *14* | 14.8 | 14.0 | a |
| Verbenaceae | *Citharexylum myrianthum* | 21.3 | 13.3 | 20.1 | - | c |
| Fabaceae | *Collaea speciosa* | 20.3 | *24.6* | 28.6 | 23.0 | a |
| Combretaceae | *Combretum fruticosum* | 36.5 | *36.5* | 13.8 | 18.9 | d |
| Costaceae | *Costus spiralis* | 52.1 | 21 | 48.6 | 32.0 | a, d, g |
| Bromeliaceae | *Cryptanthus zonatus* | 10 | *28* | 35 | - | f |
| Fabaceae | *Dahlstedtia pinnata* | 33.7 | 20.1 | 46.5 | 35.0 | a, c |
| Bromeliaceae | *Edmundoa lindenii* | 8.4 | 16.6 | 19.9 | - | c |
| Orchidaceae | *Elleanthus brasiliensis* | 1.6 | 20.6 | 9.9 | 19.0 | c |
| Fabaceae | *Erythrina crista-galli* | 158 | 22 | 48 | - | j |
| Fabaceae | *Erythrina speciosa* | 15.2 | *37.7* | 59.9 | 30.0 | a |
| Fabaceae | *Erythrina velutina* | 103 | *12* | 45 | 20.3 | d |
| Rutaceae | *Erythrochiton brasiliensis* | 67.7 | *67.7* | 41.3 | - | d |
| Scrophulariaceae | *Esterhazya campestris* | 11.2 | *14.3* | 29.6 | 27.5 | a |
| Onagraceae | *Fuchsia regia* | 28.1 | 14.4 | 28 | 20.8 | a, c, h |
| Cactaceae | *Gaylussacia brasiliensis* | 1.3 | *9.3* | 8.8 | 21.0 | i |
| Cucurbitaceae | *Gurania acuminata* | 13.8 | *6.3* | 11.6 | 20.5 | g |
| Rubiaceae | *Hamelia patens* | 2.5 | *2.5* | 11.5 | 24.0 | d |
| Heliconiaceae | *Heliconia angusta* | 36.1 | *22.3* | 29.6 | 35.0 | a |
| Heliconiaceae | *Heliconia psittacorum* | 67.3 | *67.3* | 52.1 | - | d |
| Heliconiaceae | *Heliconia richardiana* | 24.5 | *22.3* | 25.4 | 28.4 | g |
| Heliconiaceae | *Heliconia sp.* | 37.3 | 16.4 | 39.5 | 24.0 | c |
| Heliconiaceae | *Heliconia spathocircinata* | 40.6 | *24.1* | 31.8 | 27.0 | a |
| Heliconiaceae | *Heliconia velloziana* | 45.3 | *25.2* | 35.5 | 35.0 | a |
| Malvaceae | *Helicteres macropetala* | 7.7 | *7.7* | 10.7 | 22.7 | d |
| Rubiaceae | *Hillia illustris* | 27.6 | 12.3 | 54.7 | - | c |
| Amaryllidaceae | *Hippeastrum aviflorum* | 96.8 | *14.4* | 79.3 | - | a |
| Amaryllidaceae | *Hippeastrum stylosum* | 97.4 | *97.4* | 49 | - | d |
| Bromeliaceae | *Hohenbergia ridleyi* | 10 | *41.5* | 15 | - | f |
| Convolvulaceae | *Ipomoea hederifolia* | 13.7 | *13.7* | 28.7 | 22.0 | d |
| Convolvulaceae | *Ipomoea quamoclit* | 12.8 | *12.8* | 25.6 | 21.0 | d |
| Bignoniaceae | *Jacaranda puberula* | 5.4 | 26.7 | 32.8 | - | c |
| Caricaceae | *Jacaratia spinosa* | 12 | 12.9 | 12 | - | c |
| Acanthaceae | *Justicia carnea* | 14.2 | 21 | 34 | 29.0 | a, c |
| Acanthaceae | *Justicia sebastianopolitanae* | *11.5* | *22* | 30 | 33.0 | h |
| Crassulaceae | *Kalanchoe sp.* | 10.9 | 18.8 | 35.5 | - | c |
| Lobeliaceae | *Lobelia fistulosa* | 28.2 | *16.2* | 32.1 | 27.5 | a |
| Bignoniaceae | *Lundia cordata* | 55.8 | *55.9* | 45.6 | - | d |
| Bromeliaceae | *Lymania brachycaulis* | 59 | *23* | 26 | 24.0 | g |
| Apocynaceae | *Mandevilla guanabarica* | 56.6 | *31.9* | 34.7 | 22.0 | i |
| Rubiaceae | *Manettia cordifolia* | 6.7 | *9.9* | 42.5 | 32.3 | a, d |
| Rubiaceae | *Manettia mirtis* | 25.5 | 17.2 | 30 | - | h |
| Rubiaceae | *Manettia pubescens* | 26.2 | *25.2* | 42.9 | 33.0 | a |
| Acanthaceae | *Mendoncia velloziana* | 29.8 | 19.1 | 34.5 | 21.5 | c |
| Fabaceae | *Mucuna sloanei* | 200 | *10* | 40 | - | d |
| Musaceae | *Musa ornata* | 62.4 | 18.6 | 42.1 | 23.0 | c |
| Asteraceae | *Mutisia coccinea* | 8.5 | *22.9* | 42.9 | 27.5 | a |
| Gesneriaceae | *Nematanthus corticola* | 8.5 | *21.6* | 63.3 | 32.3 | g |
| Gesneriaceae | *Nematanthus crassifolius* | 12.5 | 26.5 | 40 | 33.0 | h |
| Gesneriaceae | *Nematanthus fissus* | 9.6 | *27.5* | 29.6 | 21.5 | a |
| Gesneriaceae | *Nematanthus fluminensis* | 3 | *20.6* | 52.3 | 35.0 | a |
| Gesneriaceae | *Nematanthus fornix* | 3 | *21.9* | 29.6 | 23.0 | a |
| Gesneriaceae | *Nematanthus gregarius* | 15.2 | 24.6 | 25 | 18.5 | c |
| Gesneriaceae | *Nematanthus striatus* | 20.4 | 23.7 | 22.6 | 24.8 | c |
| Bromeliaceae | *Neoregelia cruenta* | 66.8 | *30.1* | 30.3 | 21.0 | i |
| Bromeliaceae | *Neoregelia johannis* | 54.1 | *44.2* | 25.7 | 35.0 | a |
| Bromeliaceae | *Nidularium angustibracteatum* | 16.5 | *30.2* | 43.2 | 33.0 | a |
| Bromeliaceae | *Nidularium innocentii* | 60.9 | 30 | 44.3 | 35.0 | a, c, k |
| Bromeliaceae | *Nidularium krisgreeniae* | 16.9 | 24.1 | 33.3 | 26.0 | c |
| Bromeliaceae | *Nidularium marigoi* | 16 | *29.5* | 43.7 | 33.0 | a |
| Bromeliaceae | *Nidularium procerum* | 23.3 | 39.9 | 43.4 | 35.0 | a, c |
| Bromeliaceae | *Nidularium rubens* | 188.8 | *30.7* | 36.4 | 33.0 | k |
| Marcgraviaceae | *Norantea brasiliensis* | 150 | *12.6* | 23.8 | 19.2 | a |
| Acanthaceae | *Odontonema barlerioides* | *15* | *17.4* | 40 | 28.5 | h |
| Rubiaceae | Palicourea crocea | 14.6 | *24.4* | 18.3 | 21.0 | l |
| Passifloraceae | *Passiflora alliacea* | 89.2 | *31.3* | 25 | - | i |
| Bromeliaceae | *Pitcairnia flammea* | 34 | 13.8 | 30 | - | h |
| Bromeliaceae | *Portea leptantha* | 23.9 | *23.9* | 24.5 | 22.5 | d |
| Cucurbitaceae | *Psiguria triphylla* | 58.5 | *58.5* | 15 | - | d |
| Rubiaceae | *Psychotria nuda* | 2.1 | *18* | 19 | 26.0 | a |
| Rubiaceae | *Psychotria pubigera* | 4.2 | *25.5* | 11.9 | 21.5 | a |
| Fabaceae | *Pueraria phaseoloides* | 48 | *30.8* | 20.3 | 20.4 | g |
| Bignoniaceae | *Pyrostegia venusta* | 12.8 | *25.3* | 50.4 | 24.7 | a |
| Bromeliaceae | *Quesnelia arvensis* | 6.5 | *22.2* | 20.6 | 27.0 | a |
| Bromeliaceae | *Quesnelia augustocoburgii* | 35 | 24 | 30 | 33.0 | h |
| Bromeliaceae | *Quesnelia marmorata* | 9.5 | *28.5* | 25.1 | 23.8 | a |
| Acanthaceae | *Ruellia brevifolia* | 5.2 | *28* | 26 | 20.5 | m |
| Acanthaceae | *Ruellia cearensis* | 15 | *15* | 41.8 | 27.8 | d |
| Lamiaceae | *Salvia arenaria* | 4.8 | *26* | 15.7 | 18.0 | a |
| Lamiaceae | *Salvia balaustina* | 4.4 | *22.5* | 36.6 | 33.0 | a |
| Lamiaceae | *Salvia sellowiana* | 20.5 | 27.5 | 40 | 28.5 | h |
| Acanthaceae | *Saurogyne itatiaiae* | *2* | *15* | 10 | 28.5 | h |
| Cactaceae | *Schlumbergera opuntioides* | 56 | *38.5* | 36.3 | 33.0 | a |
| Marcgraviaceae | *Schwartzia brasiliensis* | 34.3 | 4.6 | 29 | 21.2 | c, o |
| Gesneriaceae | *Sinningia cochlearis* | 7 | *22.5* | 26.4 | - | n |
| Gesneriaceae | *Sinningia douglasii* | 6.3 | *26.9* | 32.8 | 23.0 | a |
| Gesneriaceae | *Sinningia sp.* | 13.6 | 25.9 | 31 | 24.0 | c |
| Gesneriaceae | *Sinningia tuberosa* | 2.6 | *25.7* | 28.1 | - | n |
| Campanulaceae | *Siphocampylus sulfureus* | 11.5 | *14.2* | 25.1 | 22.0 | a |
| Campanulaceae | *Siphocampylus westinianus* | 17.1 | *20* | 31.4 | 27.5 | a |
| Malvaceae | *Spirotheca passifloroides* | 141.9 | 6 | 48.4 | 22.6 | c |
| Malvaceae | *Spirotheca rivieri* | 141.9 | *6* | 48.4 | 23.5 | o |
| Orchidaceae | *Stenorrhynchos lanceolatus* | 9.9 | *10.3* | 19.3 | 22.5 | d |
| Bignoniaceae | *Tabebuia serratifolia* | 4.2 | 28 | 59.7 | 24.0 | c |
| Bromeliaceae | *Tillandsia gardneri* | 3.5 | *3.5* | 17.1 | 24.0 | d |
| Bromeliaceae | *Tillandsia geminiflora* | 48.8 | *21.1* | 17.9 | 28.5 | k |
| Bromeliaceae | *Tillandsia stricta* | 16.6 | 18.5 | 17.2 | 21.4 | a, c, d, i |
| Bromeliaceae | *Tillandsia tenuifolia* | 30.7 | *20.5* | 17 | 22.0 | k |
| Gesneriaceae | *Vanhouttea brueggeri* | 21.2 | *26.9* | 35.9 | - | n |
| Gesneriaceae | *Vanhouttea calcarata* | 24.1 | *23.1* | 28.6 | - | n |
| Gesneriaceae | *Vanhouttea gigantifolia* | 10.1 | *22.4* | 38.9 | 28.5 | n |
| Gesneriaceae | *Vanhouttea hilariana* | 19.5 | *28.1* | 36.6 | - | n |
| Scrophulariaceae | *Velloziella dracocephaloides* | 32.5 | *11.8* | 45.8 | 33.0 | a |
| Bromeliaceae | *Vriesea carinata* | 110.9 | 25.5 | 40 | 24.0 | c, k |
| Bromeliaceae | *Vriesea drepanocarpa* | 25 | 30.4 | 40.4 | - | c |
| Bromeliaceae | *Vriesea ensiformis* | 28.3 | 21.3 | 46.5 | 34.0 | c, g |
| Bromeliaceae | *Vriesea erythrodactylon* | 12.4 | 7.3 | 31.5 | - | c |
| Bromeliaceae | *Vriesea flammea* | 134.5 | *21.5* | 37 | 28.0 | k |
| Bromeliaceae | *Vriesea incurvata* | 182.8 | 20 | 42.5 | 35.0 | c, k |
| Bromeliaceae | *Vriesea neoglutinosa* | 84.1 | *19.2* | 34 | - | i |
| Bromeliaceae | *Vriesea philippocoburgii* | 39.3 | 23.5 | 28.6 | 24.6 | c, k |
| Bromeliaceae | *Vriesea platynema* | 220.6 | 20.9 | 27.8 | 29.5 | c |
| Bromeliaceae | *Vriesea rodigasiana* | 15.2 | 25.3 | 27.8 | 21.5 | a, c |
| Bromeliaceae | *Vriesea unilateralis* | 24 | 5.7 | 28 | - | c |
| Bromeliaceae | *Vriesea vagans* | 21.4 | 26.3 | 28.6 | 23.8 | c |
| Bromeliaceae | *Vrisea procera* | 43.5 | *20.2* | 44 | **22.0** | g |
| Bromeliaceae | *Wittrockia cyathiformis* | 23.5 | *32.4* | 39.7 | 27.5 | a |

**Table 2**. Data on bill length for 26 hummingbird species in the Brazilian Atlantic Forest.

|  |  |  |
| --- | --- | --- |
| **Species** | **Exposed culmen (mm)** | **Source** |
| *Amazilia fimbriata* | 21 | [Lopes (2002)](#_ENREF_9) |
| *Amazilia leucogaster* | 23.3 | [Paton and Collins (1989)](#_ENREF_12) |
| *Amazilia versicolor* | 18 | [Rocca-de-Andrade (2006)](#_ENREF_13) |
| *Anthracothorax nigricollis* | 26 | [Rocca-de-Andrade (2006)](#_ENREF_13) |
| *Aphantochroa amethystina* | 21 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Aphantochroa cirrhochloris* | 21 | [Rocca-de-Andrade (2006)](#_ENREF_13) |
| *Caliphlox amethystina* | 13 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Chlorestes notatus* | 18.5 | [Lopes (2002)](#_ENREF_9) |
| *Chlorostilbon aureoventris* | 20 | [Rocca-de-Andrade (2006)](#_ENREF_13) |
| *Clytomena rubricauda* | 19 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Eupetomena macroura* | 23 | [Lopes (2002)](#_ENREF_9) |
| *Glaucis hirsuta* | 31.5 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Heliothryx auritus* | 20 | [Paton and Collins (1989)](#_ENREF_12) |
| *Hylocharis cyanus* | 17.5 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Leucochloris albicollis* | 22 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Lophornis chalybea* | 14 | [Rocca-de-Andrade (2006)](#_ENREF_13) |
| *Melanotrochilus fuscus* | 21 | [Rocca-de-Andrade (2006)](#_ENREF_13) |
| *Phaethornis margarettae* | 38 | [Paton and Collins (1989)](#_ENREF_12) |
| *Phaetornis eruynome* | 33 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Phaetornis pretrei* | 35 | [Lopes (2002)](#_ENREF_9) |
| *Phaetornis ruber* | 24 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Phaetornis squalidus* | 24 | [Rocca-de-Andrade (2006)](#_ENREF_13) |
| *Ramphodon naevius* | 35 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Stephanoxis lalandi* | 14 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Thalurania furcata* | 20 | [Buzato *et al.* (2000)](#_ENREF_1) |
| *Thalurania glaucopis* | 19 | [Buzato *et al.* (2000)](#_ENREF_1) |

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