

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for NITROGEN

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--|--------|---------|----------|----------------------|--|
| <i>Abies spectabilis</i> | Leaf | | 14400.0 | -1.4680751053401264 | Wealth of India. |
| <i>Acacia farnesiana</i> | Leaf | 12800.0 | 68800.0 | 1.2507839376624452 | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| <i>Acrocomia totai</i> | Seed | | 20200.0 | -0.3210015285942189 | -- |
| <i>Acrocomia totai</i> | Fruit | | 6700.0 | -0.5554937177119953 | -- |
| <i>Allium cepa</i> | Bulb | 1700.0 | 17690.0 | | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Amphicarpaea bracteata</i> | Shoot | | 26500.0 | 0.25001993223044827 | -- |
| <i>Ananas comosus</i> | Fruit | 450.0 | 1150.0 | -0.9446478386927912 | -- |
| <i>Anethum graveolens</i> | Plant | 6800.0 | 55300.0 | 2.123792178566495 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Annona muricata</i> | Fruit | | 2700.0 | -0.8359651562567131 | -- |
| <i>Annona cherimola</i> | Fruit | | 2270.0 | -0.8661158359002702 | -- |
| <i>Annona squamosa</i> | Leaf | | 36000.0 | -0.3885281323832231 | -- |
| <i>Apium graveolens</i> | Root | 2000.0 | 19090.0 | -1.1232374468782391 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Arachis hypogaea</i> | Seed | | 40000.0 | 1.3202716195440727 | -- |
| <i>Armoracia rusticana</i> | Root | 8600.0 | 38461.0 | 1.3020990395574676 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Averrhoa carambola</i> | Fruit | 10200.0 | 12800.0 | -0.12777477393130068 | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |
| <i>Beta vulgaris</i> | Root | 2600.0 | 35830.0 | 0.9726859841750741 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Bixa orellana</i> | Seed | 24000.0 | 25200.0 | 0.09346138760231938 | -- |
| <i>Brassica oleracea</i> var. <i>botrytis</i> l. | Flower | 3100.0 | 47500.0 | 1.0 | -- |
| <i>Brassica oleracea</i> var. <i>capitata</i> l. | Leaf | 2100.0 | 37500.0 | -0.31355959259454924 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Brassica oleracea</i> var. <i>italica</i> | Leaf | 7000.0 | 71800.0 | 1.400721017239793 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Brassica oleracea</i> var. <i>botrytis</i> l. | Leaf | 7000.0 | 71800.0 | 1.400721017239793 | -- |
| <i>Brassica rapa</i> | Root | 1800.0 | 18000.0 | -1.2597103584581741 | -- |
| <i>Brassica napus</i> var. <i>napobrassica</i> | Root | 1500.0 | 25000.0 | -0.38327881620171095 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| <i>Bromelia pinguin</i> | Shoot | 1410.0 | 35800.0 | 1.0804432785672944 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|------------------------|-------------------|---------|----------|-----------------------|--|
| Capsicum annuum | Fruit | 1900.0 | 23330.0 | 0.6105662880376689 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Citrus reticulata | Fruit | 1600.0 | 13075.0 | -0.10849236253135133 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Citrus paradisi | Fruit | 990.0 | 16360.0 | 0.12184480637349815 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Citrus sinensis | Fruit | 500.0 | 13845.0 | -0.054501610611493154 | -- |
| Cocos nucifera | Hull Husk | | 1100.0 | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Coffea arabica | Seed | 16000.0 | 23000.0 | -0.08890229552415746 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Corylus avellana | Seed | 23000.0 | 28000.0 | 0.3255606206723808 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Crocus sativus | Silk Stigma Style | 22200.0 | 24300.0 | | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Cucumis sativus | Fruit | 1400.0 | 80000.0 | 4.584145393619958 | -- |
| Cyphomandra betacea | Fruit | 2230.0 | 4450.0 | -0.713258901893399 | -- |
| Daucus carota | Root | 1400.0 | 20000.0 | -1.009301346384899 | -- |
| Eriobotrya japonica | Seed | | 26000.0 | 0.1597754541937655 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Fragaria spp | Fruit | 880.0 | 10000.0 | -0.32410478091260314 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Genipa americana | Seed | | 11100.0 | -1.0753240360719185 | -- |
| Genipa americana | Fruit | | 13900.0 | -0.05064512833150329 | -- |
| Hibiscus sabdariffa | Seed | | 32900.0 | 0.7317342785449883 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Hibiscus rosa-sinensis | Flower | 640.0 | 6275.0 | -1.0 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Ilex paraguariensis | Leaf | | 30000.0 | -0.6884022915379184 | -- |
| Indigofera tinctoria | Leaf | | 51100.0 | 0.366155168156094 | -- |
| Lactuca sativa | Leaf | 2200.0 | 54000.0 | 0.5110943450808634 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------|-------|---------|----------|----------------------|---|
| Lantana camara | Shoot | | 8800.0 | -1.3304632107977425 | -- |
| Lycopersicon esculentum | Leaf | | 26000.0 | -0.8883183976410487 | -- |
| Lycopersicon esculentum | Fruit | 1300.0 | 23330.0 | 0.6105662880376689 | -- |
| Maclura pomifera | Fruit | | 25600.0 | 0.7697338294117962 | Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41 |
| Malus domestica | Fruit | 280.0 | 4000.0 | -0.7448119387296798 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Malva parviflora | Plant | | 9400.0 | -0.6022162385532511 | -- |
| Malva neglecta | Plant | 4100.0 | 4200.0 | -0.9110450788369697 | -- |
| Malva sylvestris | Leaf | | 3300.0 | -2.022842299776313 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Melilotus indica | Plant | | 33600.0 | 0.8350256719979006 | -- |
| Melilotus alba | Plant | | 8300.0 | -0.6675454163055763 | -- |
| Momordica charantia | Fruit | | 33800.0 | 1.3447002784284676 | =ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp |
| Musa x paradisiaca | Fruit | 1600.0 | 15000.0 | 0.0264845172682941 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Nicotiana tabacum | Leaf | 20000.0 | 40000.0 | -0.18861202628009283 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Panax quinquefolius | Plant | 15000.0 | 20000.0 | 0.027319474332790486 | -- |
| Passiflora edulis | Plant | 960.0 | 1920.0 | -1.0464546472690617 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Pastinaca sativa | Root | 3000.0 | 33160.0 | 0.6383899530572518 | -- |
| Persea schiedeana | Fruit | 1910.0 | 8680.0 | -0.41666035563236 | Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981. |
| Petroselinum crispum | Leaf | 4900.0 | 40700.0 | -0.15362670771204504 | ACTA AGRIC SCAND SUPPL 22: 1980 |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|-------|---------|----------|----------------------|--|
| Phaseolus vulgaris | Fruit | 3600.0 | 41000.0 | 1.8495488678089596 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Phyllanthus emblica | Fruit | 1100.0 | 5445.0 | -0.6434916315554005 | -- |
| Pisum sativum | Seed | 11000.0 | 50000.0 | 2.149197451937149 | -- |
| Prunus domestica | Fruit | 960.0 | 10000.0 | -0.32410478091260314 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Prunus persica | Fruit | 1400.0 | 13075.0 | -0.10849236253135133 | -- |
| Prunus dulcis | Seed | 3700.0 | 4315.0 | -1.637750213350621 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Pterocarpus marsupium | Leaf | | 25000.0 | -0.9382974241668313 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Pyrus communis | Fruit | 480.0 | 3000.0 | -0.8149297983658592 | -- |
| Raphanus sativus | Root | 2000.0 | 38570.0 | 1.315746330715461 | -- |
| Rauvolfia serpentina | Seed | 5500.0 | 16000.0 | -0.669150378199311 | -- |
| Rheum rhabarbarum | Pt | 1100.0 | 22000.0 | | -- |
| Ribes nigrum | Fruit | 1800.0 | 12775.0 | -0.12952772042220517 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Ribes uva-crispa | Fruit | 1100.0 | 15000.0 | 0.0264845172682941 | -- |
| Ribes rubrum | Fruit | 1600.0 | 20000.0 | 0.37707381544919133 | -- |
| Rosa canina | Fruit | 3600.0 | 9000.0 | -0.39422264054878253 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Rubus chamaemorus | Fruit | 2400.0 | 18125.0 | 0.24560282863135485 | -- |
| Senna obtusifolia | Seed | 22200.0 | 31300.0 | 0.599106145362096 | -- |
| Solanum melongena | Fruit | 5400.0 | 10250.0 | -0.30657531600355825 | -- |
| Solanum tuberosum | Tuber | 2200.0 | 17000.0 | | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Sorbus aucubaria | Fruit | 2100.0 | 11900.0 | -0.19088084760386217 | -- |
| Spinacia oleracea | Leaf | 3200.0 | 45700.0 | 0.09626842491686814 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Spondias dulcis | Fruit | 16900.0 | 17900.0 | 0.22982631021321448 | -- |
| Spondias tuberosa | Fruit | | 1100.0 | -0.9481537316746002 | -- |
| Spondias dulcis | Seed | | 6200.0 | -1.4814976939445261 | -- |
| Tephrosia candida | Plant | | 23600.0 | 0.24112405606767257 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|---------|---------|----------|----------------------|--|
| Tephrosia purpurea | Leaf | | 72500.0 | 1.4357063358078408 | -- |
| Theobroma cacao | Seed | | 22800.0 | -0.10548081217201899 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Urtica dioica | Leaf | 10000.0 | 55555.0 | 0.5888117313284553 | -- |
| Vaccinium macrocarpon | Fruit | 650.0 | 5000.0 | -0.6746940790935003 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Vitis vinifera | Fruit | 1100.0 | 7220.0 | -0.519032430701182 | ACTA AGRIC SCAND SUPPL 22: 1980 |
| Zingiber officinale | Root | 16000.0 | 24440.0 | -0.453393339582228 | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Zingiber officinale | Rhizome | 16000.0 | 24440.0 | | -- |