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# World Literature on *Leucaena* (*Leucaena leucocephala* (Lam.) de Wit)

E. Olvera, M. D. Bengé, and S. H. West



Agricultural Experiment Stations  
Institute of Food and Agricultural Sciences  
University of Florida, Gainesville

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WORLD LITERATURE ON LEUCAENA

[Leucaena leucocephala (Lam.) de Wit]

By

E. Olvera

M. D. Bengé

and

S. H. West

Institute of Food and Agricultural Sciences

University of Florida

## PREFACE

The fast-growing, tropical leguminous tree, Leucaena leucocephala (Lam.) de Wit, was originated in Mexico and Guatemala. Its protein-rich foliage (28% dry basis) is eaten by livestock throughout the tropics. Biomass yields of 200 cu m per ha per year have been reported (Brewbaker and Hutton, 1979). This biomass can be used as a source of fuel, charcoal, poles, lumber, etc. Leucaena has many favorable features, such as nitrogen fixation and resistance to drought, fire, and pests, which makes it an excellent selection for controlling erosion, reforestation, and soil improvement.

Leucaena has value as a nurse (or shade) crop for tree plantations, and its use for paper pulp, chips for wood products, fence posts, green manure, and fertilizer is increasing.

This compilation is intended to keep scientists abreast of the research being conducted on leucaena, to guide further research, and to avoid work duplication.

To simplify updates of this literature, the information has been stored on magnetic cards, and the references are listed by the authors' name, in alphabetical order. Since not all the publications listed were available, many were indexed according to the title of the work. This issue includes leucaena publications of 1980.

An addendum containing works published from 1981 to August 1985 appears at the end of this publication. The sources are the Commonwealth Agricultural Bureau (CAB) and the Bibliography of Agriculture (AGRICOLA). These references are listed by year.

The author sent part of this bibliography to the University of Yucatan, where it was published in 1978 in Tropical Animal Production, Vol. 3, and in Secretaria de Recursos Hidraulicos, Instituto Nacional Investigaciones Agrícolas (CIAPY), Publication Especial No. 8.

We would appreciate notification of corrections and additions at the address below:

Dr. Eduardo Olvera  
c/o Dr. Sherlie West  
Agronomy Seed Lab  
Bldg. 661  
University of Florida  
Gainesville, Florida 32611

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Eduardo Olvera

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- Leucaena esculenta (Moc. & Sesse) Benth. 1975. Transactions of the Linnean Society 30:442. Highland Mexico (2n=52). Highlands; trees to 15 m.; large leaves, tiny leaflets, large pods and seeds; fluted stems, corky-appearing bark.
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- Leucaena pulverulenta (Schlecht) Benth., Hook. 1842. Journal Botany 4:417. N. E. Mexico (2n=56). Lowlands, north to heavy frost; trees to 20 m; very hard wood; small leaves and tiny leaflets.
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 Section Headings: ANIMAL NUTRITION (L500)
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 Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600)
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 Determination of mimosine and 3-hydroxy-4(1H)-pyridone in Leucaena, avian excreta and serum using reversed-phase ion-pair high-performance liquid chromatography (Legume, Leucaena leucocephala)  
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 Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600)
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heteropogon contortus; chloris; aristida; peanuts; oilmeals; body weight  
Section Headings: ANIMAL NUTRITION (L500)

Addison, K.B.; Cooksley, D.G.; Robbins, G.B.; Bushell, J.J.; McKeon, G.M.;  
Rickert, K.G.

Models of feed systems for growing cattle in sub-coastal southern  
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11-23.

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Israel, Institute of Field and Garden Crops, Division of Plant Introduction  
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No. 189, 33 pp.

Descriptors: Israel; plant introductions; Brachiaria humidicola; Cenchrus  
ciliaris; Lathyrus spp.; Leucaena spp.; Lolium spp.; Medicago truncatula;  
Vicia sativa; introductions oats; buckwheat; cotton; barley; Lens culinaris;  
cassava; tobacco; rice; Vigna radiata; rye; sorghum; wheat; maize

Ahmad, I.; Chen, C.P.; Abdullah, H.M.  
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sandy soil in Peninsular Malaysia  
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Taipei: The Center.

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130); FORESTRY  
RELATED (K001); FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Ahmed, S.S.  
Jammu & Kashmir. I. (Introduction and silviculture of Leucaena Leucocephala  
in India, planting techniques)

Leucaena leucocephala in India: proceedings of National Seminar,  
Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K.  
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Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Akbar, M.A.; Gupta, P.C.  
Note on the comparative amino acid and beta-carotene composition of subabul  
and lucerne leaf meals.

Dep. Animal Nutrition, Haryana Agricultural Univ., Hissar - 125004, India.  
Indian Journal of Animal Nutrition, 1984, 1, 1, pp. 51-52.

Descriptors: Leucaena leucocephala; leaf meal; amino acid; beta-carotene;  
Lucerne

Alcantara, P.B. ZTCNA; Alcantara, V.B.G.; Abramides, P.G.  
Preliminary studies on Leucaena leucocephala (Lam.) de Wit. propagation  
by cuttings (Forage crops, Brazil).



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Zootecnia. v. 20 (1), Jan./Mar. 1982. pp. 5-15. ill.

Sao Paulo: Departamento da Producao Animal.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Alferez, A.C.

Leucaena: a renewable source of high-protein animal feed and nitrogen-rich organic matter.

University of the Philippines, Los Banos, Laguna, Philippines.

Scientia Filipinas, 1981, 1, 1, pp. 24-29.

Descriptors: Leucaena leucocephala; Philippines; maize; rice green manures; specific

Alli, I.; Fairbairn, R.; Noroozi, E.; Baker, B.E.

The effects of molasses on the fermentation of chopped whole-plant Leucaena (Ensiled forage crops)

Journal of the Science of Food and Agriculture. v. 35 (3), Mar. 1984. pp. 285-289.

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Section Headings: MICROBIOLOGY OF FEED PROCESSING (R110); FEED PROCESSING AND STORAGE (R100)

Almeida, J.E. de; Valarini, M.J.; Lopes, E.S.

Performance of Rhizobium sp. strains on Leucaena leucocephala (Lam.) de Wit. in soil under two liming levels (Brazil).

Comportamento de estirpes de Rhizobium sp., em Leucaena leucocephala (Lam.) De Wit. cultivada em solo com dois niveis de calagem

Boletim de industria animal. v. 39 (2), July/Dec. 1982. pp. 167-171.

Sao Paulo, Brazil: Departamento da Producao Animal.

Section Headings: PLANT NUTRITION (F500); SOIL FERTILITY AND FERTILIZERS (J500)

Almeida, J.E.; Valarini, M.J.; Lopez, E.S.

Response of Leucaena leucocephala to inoculation in a soil of pH 5.5.

Biological nitrogen fixation technology for tropical agriculture (edited by Graham, P.H.; Harris, S.C.).

Instituto de Zootecnia, N. Odessa, Sao Paulo, Brazil.

Publ: Cali, Colombia; Centro Internacional de Agricultura Tropical (CIAT) 1982, pp. 455-457

Descriptors: Conferences; Biological Nitrogen Fixation Technology for Tropical Agriculture; Inoculation; Leucaena leucocephala

Alvarez F.F.; Gallo, T.M.

Milking dual-purpose cows in the presence of their calves, and Leucaena as nitrogenous forage. I. Performance.

Ordeno de vacas doble proposito en presencia o ausencia del becerro y Leucaena como forraje proteico. I. Comportamiento.

FIRA, Banco de Mexico SA, Mexico.

Memoria, Asociacion Latinoamericana de Produccion Animal, 1981, publ. 1983, 16, p. 111.

Descriptors: Cows; conferences; Asociacion Latinoamericana de Produccion Animal; Milk yield; feeding; Leucaena leucocephala; Feeds; legumes

Amba, T.O.

Relating man-made forests of fast growing species to low-cost housing in Nigeria.

Coll. For Resour., Univ. Washington, Seattle, WA 98195, USA.

Forest Products Abstracts, 1984, 7, 6, pp. 157-158

Descriptors: Theses; forestry; Nigeria; Silviculture; intensive silviculture; Eucalyptus grandis; increment; Gmelina arborea; Leucaena leucocephala; volume; Gmelina; Leucaena

Anderson, D.M.W.; Bridgeman, M.M.E.; Brown, E.I.G.; Anderson, J.A.M.

Studies of uronic acid materials. 59. The gum exudate from a cultivar of Leucaena leucocephala (Lam.) de Wit

The International tree crops journal. v. 2 (3/4), 1983. pp. 291-295.

Berkhamsted: A B Academic.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); FORESTRY RELATED (K001)

Arigayo, S.; Sakata, K.; Fujisawa, S.; Sakurai, A.; Adisewojo, S.S.; Takahashi, N.

Characterization of gibberellins in immature seeds of Leucaena leucocephala (Lam) De Wit (Leguminosae)

Agricultural and biological chemistry. v. 47 (12), Dec. 1983. pp. 2939-2940.

Tokyo: Agricultural Chemical Society of Japan.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Arigayo, S.; Fujisawa, S.; Sakurai, A.; Kamiya, Y.; Adisewojo, S.S.; Takahashi, N.

Fluctuation of endogenous levels of free and conjugated gibberellins throughout seed maturation in Leucaena leucocephala (Lam) De Wit

Plant and cell physiology. Dec. 1984. v. 25 (8) pp. 1395-1402. ill.

Kyoto: Japanese Society of Plant Physiologists.

Descriptors: Leucaena leucocephala; gibberellins; seeds; maturation;

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Arora, S.S.

Genetic studies on kubabul (Leucaena leucocephala, cultivars, traits)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 152-159.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: PLANT BREEDING (F200); FORESTRY RELATED (K001)

Aulokh, K.S.

Punjab (Leucaena leucocephala, trials with giant varieties of trees, India, nursery and planting techniques)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 97-98. plates.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
Section Headings: FORESTRY PRODUCTION--ARTIFICIAL REGENERATION (K120)

Azmi, M.I.

Effect of Pratylenchus zeae on seedling growth of su-babool (Leucaena leucocephala) and its control with phorate.

Indian Grassland & Fodder Res. Inst., Jhanzi, India.

Nematologica, 1984, 30, 1 pp. 105-107

Descriptors: Legumes; Vegetables; Pratylenchus zeae; Leucaena leucocephala; pathogenicity; phorate; control; pests; Nematodes; woody plants; Insecticides

Azmi, M.I.

Rate of multiplication and pathogenic effects of Helicotylenchus dihystra on koobabool (Leucaena latisiliqua) (Fodder tree, India)

Indian journal of nematology. v. 11 (1), Mar. 1981. pp. 69-71. ill.

New Delhi, Nematological Society of India.

Section Headings: PESTS OF PLANTS--NEMATODES (F822)

Baconguis, S.R.; Pameron, F.P.; Navarro, R.V.

Grassland overgrazing degrades environment and rural life II.

Forest Res. Inst., Laguna, Philippines.

Canopy International, 1982, 8, 5, pp. 13-15

Descriptors: grassland improvement; Philippines; Stylosanthes guianensis; Centrosema pubescens; Macroptilium atropurpureum; Lablab purpureus; Pueraria phaseoloides; Leucaena leucocephala

Baez, L.; Pound, B.; Pena, G.

A note on the performance of calves fed cut or grazed Leucaena leucocephala (Lam.) De Wit

Tropical animal production. v. 8 (1), 1983. pp. 56-58.

Santo Domingo: Consejo Estatal del Azucar, Division de Ganaderia y Boyada.

Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600)

Bahri, S.; Adi, H.; Minawati, D.

Effect of Leucaena leucocephala on the thyroid gland of rabbits: a histopathological study.

Pengaruh pemberian lamtoro (Leucaena leucocephala) terhadap kelenjar thyroid kelinci: suatu pengamatan histopatologis.

Balai Penelitian Penyakit Hewan, P.O. Box 52, Bogor, Indonesia.

Penyakit Hewan, 1982, 14, 23 pp. 14-16.

Descriptors: Thyroid; histology; Leucaena leucocephala; rabbits; Leucaena; Thyroid antagonists

Bahri, S.

Evaluation of the goitrogenic effect of lamtoro (Leucaena leucocephala) in guineapigs.

Evalusai efek goitrogenik dari lamtoro (Leucaena leucocephala) pada marmut.

Balai Penelitian Penyakit Hewan, Bogor, Indonesia.

Penyakit Hewan, 1984, 16, 27, pp. 145-147

Descriptors: Thyroid; Leucaena leucocephala; guineapigs

Bamualim, A.; Weston, R.H.; Hogan, J.P.; Murray, R.M.  
The contributions of Leucaena leucocephala to post ruminal digestible protein for sheep fed tropical pasture hay supplemented with urea and minerals.

Graduate School of Tropical Veterinary Science, James Cook Univ.,  
Townsville, Queensland 4811, Australia.

Proceedings of the Australian Society of Animal Production, 1984, 15, pp. 255-258.

Descriptors: Leucaena leucocephala; supplements; roughage; sheep feeding

Bamualim, A.; Stachiw, S.; Jones, R.J.; Murray, R.M.

The effect of fresh Leucaena leucocephala as a supplement on the utilization of pasture hay by goats.

Graduate School of Tropical Vet. Science, James Cook Univ., Townsville,  
Queensland 4811, Australia.

Proceedings of the Australian Society of Animal Production, 1984, 15, pp. 259-262.

Descriptors: Leucaena leucocephala; supplements; roughage; goat feeding

Basappa, B.

Afforestation of degraded grassland.

Karnataka For. Dep., Mercara, India.

Myforest, 1983, 19, 1, pp. 57-61

Descriptors: grasslands; alkaline sites; choice of species

Basappa, B.

Problems encountered in the cultivation of Leucaena leucocephala (India)

Myforest. v. 19 (2), June 1983. pp. 84-88.

Bangalore: Forest Department, Karnataka.

Section Headings: PESTS OF PLANTS--INSECTS (F821); FOREST INJURIES AND PROTECTION (K800)

Bawagan, P.V.

Research on Leucaena wood at the Forest Products Research and Development Institute (FPRDI), Philippines

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre.  
pp. 119-122.

Ottawa: The Centre, 1983.

Section Headings: FOREST PRODUCTS -- WOOD (K510)

Bawagan, P.V.

Utilization of ipil-ipil for wood.

DPRDI, NSTA, College, Laguna 3720, Philippines.

Forpride Digest, 1982, 11, 1/2, pp. 57-67.

Descriptors: Leucaena leucocephala; Wood chemistry; Wood properties; Pulping materials; Wood anatomy; Wood preservation

Becker, R.; Sayre, R.N.; Saunders, R.M.

Semiarid legume crops as protein resources (Prosopis, Leucaena, Acacia, Geoffroea, Olneya)

Journal of the American Oil Chemists' Society. v. 61 (5), May 1984.  
pp. 931-938.

Champaign, Ill.: The Society.

Section Headings: PLANT PRODUCTION -- HORTICULTURAL CROPS (F110)

Bell, E.A.

Botany: the science of survival (Plant proteins, Lathyrus sativus,  
Phaseolus lunatus, butter beans, Manihot esculenta, Acadia albida, Leucaena  
leucocephala, Hevea spp., natural resources)

Science and public policy. v. 9 (4), Aug. 1982. pp. 170-178. ill.

London: Butterworth Scientific Limited.

Section Headings: PLANT PRODUCTION -- GENERAL (F100)

Benge, M.D.

Leucaena. 1. An excellent feed for livestock

Livestock international. v. 9 (1), Feb. 1981. pp. 4-6. ill.

Surrey, England, Agraria Press.

Section Headings: ANIMAL NUTRITION (L500); PLANT PRODUCTION -- PASTURES AND RANGE (F130)

Benge, M.D.

Leucaena. 3. The field (Forage crops, pastures).

Livestock international. v. 9 (3), June/July 1981. pp. 16-17.

Surrey, England, Agraria Press.

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130)

Benge, M.D.

The miracle tree: reality or myth? (Leucaena, forest trees, silviculture)

Leucaena research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre. pp. 95-98.

Ottawa: The Centre, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Benge, M.D.

Leucaena. 2. Selecting the seed for pasture

Livestock international. v. 9 (2), April 1981. pp. 17-18. ill.

Surrey, England, Agraria Press.

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130)

Benge, M.D.

Leucaena (leucocephala, Mimosaceae). 1. A (shade) tree for all purposes  
(Tropical, erosion control).

World Crops. v. 33 (2), March 1981. pp. 38-40. (continued). ill.

London, World crops Publications.

Section Headings: PLANT PRODUCTION -- HORTICULTURAL CROPS (F110)

Benge, M.D.

Leucaena (leucocephala). 2. The shade tree that defies the woodcutter.

World crops. v. 33 (4), July 1981. pp. 87-88 (continued). ill.

London, World Crops Publications.

Section Headings: PLANT PRODUCTION -- HORTICULTURAL CROPS (F110).

Benge, M.D.

Leucaena. 3. The tree that is called saviour (Philippines)  
World crops. v. 33 (6), Nov./Dec. 1981. pp. 132-133. ill.  
Horley, Surrey, England, Agraria Press.

Section Headings: PLANT PRODUCTION -- HORTICULTURAL CROPS (F110)

Berry, S.; D'Mello, J.P.F.

A comparison of Leucaena leucocephala and grass meals as sources of yolk pigments in diets for laying hens

Tropical animal production. v. 6 (2), 1981. pp. 167-173. ill.

Santo Domingo, Dominican Republic, Consejo Estatal del Azucar, Division de Ganaderia y Boyada.

Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300); FOOD COMPOSITION--POULTRY (Q503)

Bhaskar, V.

Effect of forest soils on the germination of koobabul and agase seeds.

Dep. Farm For., Univ. Agric. Sci., GKVK Campus, Bangalore-560 065, India.  
Myforest, 1983, 19, 2, pp. 72-73.

Descriptors: Leucaena leucocephala; Sesbania grandiflora; Seed; germination; Leucaena; Sesbania; Natural regeneration; seedbeds; Allelopathy

Bhatnagar, H.P.

Growth regulator and nutritional aspects of growth on Leucaena leucocephala in India

Van vigyan. v. 19 (1), March 1981. pp. 29-35.

Dehra Dun, Society of Indian Foresters.

Section Headings: PLANT NUTRITION (F500); FORESTRY RELATED (K001)

Bhola, P.P.; Sharma, Y.K.

Kraft pulping of Leucaena leucocephala (India)

The Indian forester. v. 108 (3), March 1982. pp. 202-211.

Dehra Dun, N.K. Mathur.

Section Headings: FOREST PRODUCTS -- PULP AND PAPER (K530)

Blom, P.S.

Leucaena, a promising versatile leguminous tree for the tropics.

Dep. Agric. Res., Royal Tropical Inst., Mauritskade 63, Amsterdam, Netherlands.

International Tree Crops Journal, 1981, 1, 4, pp. 221-236.

Descriptors: Leucaena leucocephala; Choice of species; Tropics; agroforestry; fuel plantations; Fodder; foliage

Bodle, W.W.; Wright, K.A.

Hydrolysis of biomass and related materials for the production of liquids (Eucalyptus wood, leucaena wood, and peat)

Energy from biomass and wastes VI: symposium, January 25-29, 1982, Lake Buena Vista, Florida/symposium chairman D.L. Klass; sponsored by the Institute of Gas Technology. pp. 1031-1055. ill.

Chicago: The Institute, c1982.

Section Headings: BIOMASS ENERGY SOURCES (P120); ALTERNATIVE SOURCES OF ENERGY (P130)

Bottenberg, H.B.  
Growth and yield of IR-36 rice as affected by different levels of ipil-ipil (Leucaena) leaves.  
Don Mariano Marcos Memorial State Univ., Bacnotan, La Union, Philippines.  
Leucaena Research Reports, 1981, 2, 41.  
Descriptors: rice; green manures; Leucaena leucocephala

Bray, R.A.  
Evaluating hybrids between Leucaena leucocephala and L. pulverulenta as potential forage plants.  
CSIRO Division of Tropical Crops & Pastures, Davies Lab., PO Aitkenvale, Qld. 4814, Australia.  
Australian Journal of Experimental Agriculture and Animal Husbandry, 1984, 24, 126, pp. 379-385.  
Descriptors: Leucaena leucocephala; interspecific hybridization; Leucaena pulverulenta; plant composition; mimosine

Bray, R.A.  
Forage yield of Leucaena diversifolia  
Leucaena research reports. v. 3, July 1982. p. 1.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Bray, R.A.  
Sources of variation for mimosine content  
Proceedings, Australian plant breeding conference, Adelaide, South Australia, February 14-18, 1983 (edited by Driscoll, C.J.).  
CSIRO, Davies Lab., Townsville, Queensland, Australia.  
Publ: Adelaide, Australia; Organizing Committee, Standing Committee on Agriculture, 1983, pp. 278-279.  
Descriptors: Conferences; Australian plant breeding conference; Leucaena leucocephala; plant composition; mimosine; Leucaena pulverulenta; Leucaena; interspecific hybridization

Brewbaker, J.L.; Pan, F.J.; Sorensson, C.  
Leucaena improvement (American woody genus, forage and fuelwood species for the tropics, Hawaii)  
Progress report, clovers and special purpose legumes research - Univ. of Wisconsin, Dept. of Agronomy. v. 16, 1983. pp. 25-26.  
Madison: The Department.  
Section Headings: PLANT BREEDING (F200)

Brewbaker, J.L.; Kaye, S.  
Mimosine variations in species of the genus Leucaena  
Dep. of Hort., Hawaii Univ., Honolulu, HI 96734, USA.  
Leucaena Research Reports, 1981, 2, pp. 66-68.  
Descriptors: Leucaena; chemical composition; mimosine

Brewbaker, J.L.  
Systematics, self-incompatibility, breeding systems, and genetic improvement of Leucaena species

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 17-22. ill.

Ottawa: The Centre, 1983.

Section Headings: PLANT BREEDING (F200)

Brewbaker, J.L.; MacDicken, K.; Beldt, R. Van den

Tropical nitrogen-fixing fuelwood trees.

Energy conservation and use of renewable energies in the bio-industries (edited by Vogt, F.).

Departments of Agronomy and Horticulture, College of Tropical Agriculture, University of Hawaii, 3190 Maile Way, Honolulu, Hawaii 96822, USA.

Publ: Oxford, UK; Pergamon Press Ltd., 1982, pp. 108-119

Descriptors: Trees; nitrogen fixation

Brewbaker, J.L. (et al.) Beldt, R. van den; MacDicken, K.; Budowski, G.; Kss, D.C.L.; Russo, R.O.; Escalante, G.; Herrera, R.; Aranguren, J.; Arkcoll, D.B.; Baggio, A.J.; Seiffert, N.F.

Utilization of nitrogen fixing trees

In Simposio sobre fixacao de nitrogenio em arvores tropicais (coordinated by Dobereiner, J.) pp. 19-24, Sept. 1983, Rio de Janeiro, Brazil.

Dept. Hort.. Univ. Hawaii, Honolulu, Hawaii 96822, USA.

Pesquisa Agropecuaria Brasileira, 1984, 19, Special issue, pp. 193-249.

Descriptors: Conferences; Nitrogen fixation in tropical trees;

Agroforestry; Brazil; cattle; Nitrogen fixatio; Erythrina; Fruit; edible species; uses; Leguminosae; Erythrina poeppigiana; Parkia platycephala; Pentaclethra macroloba; Swartzia; Cassia leiandra; Hymenaea courbari; Dipteryx odorata; Inga edulis; Inga macrophylla; Inga cinnamonea; Gliricidia sepium; Leucaena leucocephala; Chemical constituents of plants; nitrogen; proteins; Fuelwood; Shade trees; Browse; Venezuela; Brewbaker, J.L.; Conferences; Utilization of nitrogen fixing trees; Leguminosae; nutrition; nitrogen; Tropical fruits; fixation

Briones, A.A.

The nature, distribution and management of some problem soils in the Philippines

Dept. of Soil Sci., Philippines Univ., Los Banos, Laguna, Philippines.

Tropical Agriculture Research Series, 1982, No. 15, pp. 63-72.

Descriptors: conferences; International symposium on distribution, characteristics and utilization of problem soils; Leucaena leucocephala; soils, maize; types; Philippines

Bushby, H.V.A. AAAHA

Rhizosphere populations of Rhizobium strains and nodulation of Leucaena leucocephala (Soil biology, symbiosis, Queensland)

Australian journal of experimental agriculture and animal husbandry. v. 22 (117), August 1982. pp. 293-298. ill.

Melbourne Commonwealth Scientific and Industrial Research Organization.

Section Headings: SOIL BIOLOGY (J100); PLANT ECOLOGY (F300)

Cable, W.J.; Breen, J.A.; Cahusac, A.B.; Williams, D.B.; Taogaga, T.

Preliminary results of intercropping Leucaena with taro (Colocasia esculenta) in Western Samoa



Leucaena research reports. v. 3, July 1982. pp. 102-103.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Cacanindin, D.C.

Management of congonal areas for agroforestry: a boost to rural economy  
College of Forestry, Philippines Univ., Los Banos, Laguna, Philippines.  
Canopy International, 1982, 8, 7, pp. 3-4.

Descriptors: Imperata cylindrica; grassland improvement; Stylosanthes guianensis; soils; erosion; Leucaena

Centro Internacional de Agricultura Tropical. Tropical Pastures Program  
Annual Report 1981

Publ: Cali, Colombia; CIAT, 1982, 304 pp.

Descriptors: Stylosanthes; Desmodium; Leucaena; Zornia; Centrosema;  
Andropogon gayanus; diseases; Colombia; plant diseases; reports; CIAT

Chagas, J.M.; Pereira Filh, I.A.; Vieira, C.

Effect of Leucaena and NPK fertilizer on growth of beans in the cerrado  
Efeitos da leucena e da adubacao NPK sobre a cultura do feijao no cerrado  
EMBRAPA/EPAMIG, 36570 Vicosa, Minas Gerais, Brazil.

Revista Ceres, 1983, 30, 172, pp. 481-485.

Descriptors: Leucaena leucocephala; Green manures; Brazi; Phaseolus vulgaris; responses; NPK fertilizers; fertilizers; NPK

Chagas, J.M.; Kluthcouski, J.; Aquino, A.R.L. de.

Leucaena leucocephala as a green manure for bean growing in "cerrado" soil (Phaseolus vulgaris, kidney bean)

Leucaena leucocephala como verde para a cultura de feijao em cerraddo

Pesquisa agropecuaria brasileira. v. 16 (6), 1981. pp. 809-814.

Brasilia, Empresa Brasileira de Pesquisa Agropecuaria.

Section Headings: SOIL FETILITY AND FERTILIZERS (J500); PLANT PRODUCTION -- HORTICULTURAL CROPS (F110)

Chandrasekaran, N.R.

Studies on forage potential of Leucaena

Dept. of Forage Crops, Tamil Nadu Univ., Coimbatore 641 003, Tamil Nadu, India.

Leucaena Research Reports, 1981, 2, pp. 19-20.

Descriptors: Leucaena leucocephala; Rhizobium; digestibility; fertilizers; phosphorus; chemical composition; protein.

Chandrasekaran, N.R.

Studies on Leucaena tree growth (Seed orchard, wood yields)

Leucaena research reports. v. 3, July 1982. pp. 19-20.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: FOREST MENSURATION AND DESCRIPTION (K250)

Chandrasekharan, P.; Chandrasekharan, N.R.; Subramanian, S.

Velimasal -- a better intercrop with cumbu-Napier grass

Dept. of Forage Crops, Tamil Nadu Agric. Univ., Coimbatore 641 003, Tamil Nadu, India.

News Letter, Tamil Nadu Agricultural University, 1983, 131, 3, pp. 1  
Descriptors: Desmanthus virgatus; Leucaena leucocephala; mixtures; grasses;  
Pennisetum americanum, P. purpureum; Legumes.

Chandrashekhara Rao, T.; Lakshminarayana, G.; Prasad, N.B.L.; Mohan Rao, S.J.; Azeemoddin, R.; Ramayya, D.A.; thirumala Rao, S.D.  
Characteristics and compositions of Carissa spinarum, Leucaena leucocephala and Physalis minima seeds and oils  
Journal of the American Oil Chemists' Society. v. 61 (9), Sept. 1984. pp. 1472-1473.

Champaign, Ill.: The Society.  
Section Headings: FOOD COMPOSITION -- FIELD CROP PRODUCTION (Q504); PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Chang, Y.C.; Tao, C.C.C.; Wong, C.Y.  
Three species of scale insects injurious to "giant" Leucaena tree.  
Bulletin -- Taiwan Forestry Research Institute. July 1982. (369), July 1982. p. 8 ill.

Taipei: Taiwan sheng lin yeh shih yen so.  
Section Headings: PESTS OF PLANTS -- INSECTS (F821); FORESTRY RELATED (K001)

Chang, Y.C.; Tao, C.C.C.; Wong, C.Y.  
Three species of scale insects injurious to giant Leucaena (leucocephala trees, Coccus longulus, Asterolecanium pustulans, Hemiberlesia implicata)  
Leucaena research reports. v. 3, July 1982. pp. 55-56. ill.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PESTS OF PLANTS -- INSECTS (F821); FORESTRY RELATED (K001)

Chaturvedi, A.N. IFORA  
Growth of Leucaena leucocephala (India)  
The Indian forester. v. 109 (1), Jan. 1983. pp. 7-9.  
Dehra Dun: N.K. Mathur.  
Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Chaturvedi, A.N.  
Leucaena leucocephala trials in Uttar Pradesh (India)  
The Indian forester. v. 107 (10), Oct. 1981. pp. 611-616.  
Dehra Dun, S.K. Mitra.  
Section Headings: PLANT PRODUCTION -- GENERAL (F100); FORESTRY RELATED (K001)

Chaturvedi, A.N. IFORA8  
Performance of Leucaena leucocephala (India)  
The Indian forester. v. 109 (7), July 1983. pp. 423-426. ill.  
Dehra Dun: N.K. Mathur.  
Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Chel, G.L.; Romano Munoz, J.L.; Castellanos Ruelas, A.  
Limiting amino acids of Leucaena leaf meal for the growing rat  
Leucaena research reports. v. 3, July 1982. p. 51.

Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: ANIMAL NUTRITION (L500)

Chel, I.; Enriquez, A.; Torres, M.; Leon, J. de  
Leucaena leucocephala: evaluation of agronomic parameters and nutritive value

Centro Experimental Pecuario, INIP-SARH, Yucatan, Mexico.

Tropical Animal Production, 1981, 6, 4, pp. 363-364

Descriptors: Leucaena leucocephala; seed germination; seed treatments; cutting height; cutting frequency; chemical composition; proteins; digestibility; regrowth; leaves; proportion

Chen, C. Y.; Chen, M. Y.

Physiological and ecological characteristics of Leucaena

Dept. of Bot., National Chung-Hsing Univ., Taichung, Taiwan.

Leucaena Research Reports, 1981, 2, p. 45

Descriptors: Leucaena leucocephala; light intensity; photosynthesis; ecology; plant physiology; Leucaena.

Chomchalow, S.; Visutti Pitakul, S.; Piraman, P.; Tojun, P.; Juntarasami, M.; Boonmalisont, D.; Poonsawasdi, S.; Norman, B.; Tiansri, S.; Kachasene, P.  
Inoculum production for winged bean and other grain legumes in Thailand  
Winged Bean Flyer, 1982, 4, 1, p. 8

Descriptors: Leucaena leucocephala; Rhizobium; inoculants; groundnuts; inoculation; Psophocarpus tetragonolobus; Vigna radiata; storage; conferences; International Winged Bean Seminar

Chou, C. H.

Study of allelopathy with Hengchun vegetation (Leucaena leucocephala, Vitex negundo, Stachytarpheta jamaicensis, germination)

Leucaena research reports, v. 3, July 1982. p. 57.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Chouinard, A. (Editor)

Leucaena research in the Asian - Pacific region. Proceedings of a workshop held in Singapore, November 23-26, 1982

Publ: Ottawa, Canada; International Development Research Centre, 1983, 192 pp.

Descriptors: Conferences; Leucaena leucocephala; Asia

Chowdhury, A. R.; Banerji, R.; Misra, G.; Nigam, S. K.

Studies on leguminous seeds (Albizzia lebbek, Albizzia lucida, Albizzia richardiana, Entada phaseoloides, Leucaena leucocephala, Parkia biglandulosa, Pithecolobium bigemina, Pithecolobium dulce)

Journal of the American Oil Chemists' Society, v. 61 (6), June 1984. pp. 1023-1024.

Champaign, Ill.: The Society.

Section Headings: FOOD COMPOSITION--FIELD CROP PRODUCTS (Q504)

Cochran, R. C.; Del Carpio, A.; Parker, C. F.; Hallford, D. M.; Van Keuren, R. W.

Growth response of Peruvian Criollo goats consuming varying levels of Acacia macracantha, Leucaena leucocephala and corn stalks

Nutrition reports international. v. 29 (2), Feb. 1984. pp. 495-503.  
Los Altos, Calif.: Geron-X, Inc.  
Section Headings: ANIMAL NUTRITION (L500)

Common, I.F.B. AESJB; Beattie, W.M.

An introduced moth, *Ithome lassula* Hodges (Lepidoptera: Cosmopterigidae), attacking *Leucaena* in northern Queensland (*Leucaena leucocephala*, includes taxonomic morphology)

Journal of the Australian Entomological Society. v. 21 (pt.3), August 18, 1982. pp. 195-197. ill.

Brisbane: The Society.

Section Headings: PESTS OF PLANTS -- INSECTS (F821); ANIMAL TAXONOMY AND GEOGRAPHY (L700); ENTOMOLOGY RELATED (L001)

Conlan, L.L.

Identification of *Leucaena leucocephala* cultivars using polyacrylamide gel electrophoresis of seed embryos

Davies Lab., CSIRO Div. Trop. Crops & Pastures, Townsville, Qld., Australia.

*Leucaena* Research Reports, 1981, 2, pp. 12-13

Descriptors: *Leucaena*; variety classification; *Leucaena leucocephala*; seed; protein banding; varieties; identification

Conlan, L.L.

Identification of *Leucaena leucocephala* cultivars using polyacrylamide gel electrophoresis of seed embryos

Div. of Tropical Crops and Pastures, CSIRO, Townsvill, Qld., Australia 4814.

*Leucaena* Research Reports, 1981, 2, pp. 12-13.

Descriptors: *Leucaena leucocephala*; seeds; protein; varieties; identification

Contreras, G.; Capriles, M.; Ruan, R.; Pino, J.F.; Paredes, L.; Parra, R.; Marquez, N.; Castellanos, A.; Valencia, M.

Abstracts of the fourth annual conference of tropical animal production, July 16, 17 and 18, 1981

Mexico, Colegio Superior de Agricultura Tropical H. Cardenas; Mexico Universidad de Yucatan

Tropical Animal Production, 1981, 6, 4, pp. 357-379.

Descriptors: milk yield; dual-purpose cattle; cattle; dual-purpose; feeding; leucaena; feeds; legumes; calf; milk; restricted; wt. gain; suckling; milk composition; sheep

Cooksley, D.G.

Chemical control of weeds in seedling leucaena (*Leucaena leucocephala*) -- post-emergence applications (Queensland)

Queensland journal of agricultural and animal sciences v. 38 (2), Dec. 1981. pp. 109-115.

Brisbane: Queensland Dept. of Primary Industries.

Section Headings: WEEDS (F900)

Cooksley, D.G.

Effects of planting depth and sowing methods on emergence f leucaena

(Leucaena leucocephala cv. Peru) seed in a light medium clay (Forage plant, Queensland)

Queensland journal of agricultural and animal sciences v. 39 (1), June 1982. pp. 47-53.

Brisbane: Queensland Dept. of Primary Industries.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Cooksley, D.G.; Paton, C.J.; Whitehouse, M.J.

Response of Leucaena leucocephala to a range of fertilizers on 'Brian Pastures'

Publ: Brisbane, Australia; Queensland Department of Primary Industries, 1984, 12 pp.

Descriptors: Leucaena leucocephala; fertilizers; phosphorus; calcium; sulphur; liming materials; phosphorus fertilizers; sulphur fertilizers; responses

Cooksley, D.G.

Tolerance of Leucaena leucocephala to some herbicides applied post-emergence (Effects on weed population)

Australian weeds. v. 2 (3), Autumn 1983. pp. 87-89.

Victoria: Inkata Press.

Section Headings: WEEDS (F900)

Cooksley, D.G.

Weed control in Leucaena leucocephala (Lam.) de Wit and associated toxicity effects of some pre-emergence herbicides

Australian weeds. v. 2 (4), Winter 1983. pp. 137-140.

Victoria: Inkata Press.

Section Headings: WEEDS (F900)

Corley, R.H.V.

Potential productivity of tropical perennial crops

Bakasawit Clonal Oil Palm Res. Unit, Banting, Selangor, Malaysia.

Experimental Agriculture, 1983, 19, 3, pp. 217-237.

Descriptors: Cassava; Leucaena leucocephala

Costa, N.M.S.

Some observations on Leucaena sp. collection in Brasil

EPAMIG, 35, 700 Sete Lagoas, M.G., Brazil.

Leucaena Research Reports, 1981, 2, p. 17.

Descriptors: Leucaena; nodulation

Cubero, J.I.; Moreno, M.T.

Grain legumes

Leuminosas de grano

Departamento de Genetica, Escuela Tecnica Superior de Ingenieros Agronomos, Cordoba, Spain.

Publ: Madrid, Spain; Mundi-Prensa, 1983, 359 pp.

Descriptors: Legumes; Spain; books; Production; Diseases; Nutritive value

Cunningham, S.D.; Munns, D.N.

The correlation between extracellular polysaccharide production and acid tolerance in Rhizobium

Journal -- Soil Science Society of America. Nov./Dec. 1984. 48, 6, pp. 1273-1276.

Madison, Wis.: The Society.

Descriptors: rhizobium; polysaccharides; soil acidity; tolerances; trifolium; phaseolus; leucaena; lens; melilotus; cicer

Section Headings: SOIL BIOLOGY (J100)

D'Mello, J.P.F. Tagla; Acamovic, T.

Apparent metabolizable energy value of dried Leucaena leucocephala leaf meal for young chicks (Leucaena leucocephala, nutrition, feed composition)

Tropical agriculture. v. 59 (4), Oct. 1982. pp. 329-332.

Guildford: Butterworth Scientific.

Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600); FEED COMPOSITION (R300)

D'Mello, J.P.F.; Fraser, K.W.

The composition of leaf meal from Leucaena leucocephala (Digestibility of animal feeds)

Tropical science. v. 23 (1), 1981. pp. 75-78.

London, Her Majesty's Stationery Office.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

D'Mello, J.P.F.; Acamovic, T.

Growth performance of, and mimosine excretion by, young chicks fed on Leucaena leucocephala

Dept. Agricultural Biochemistry, Edinburgh School of Agriculture, West Mains Road, Edinburgh, EH9 3JG, UK.

Animal Feed Science and Technology, 1982, 7, 3, pp. 247-255.

Descriptors: Leucaena leucocephala; leaf meal; chicken feeding; mimosine; excretion; intake; chicken; Leucaena; fed to chick; amino acids; mimosine toxicity in chick

D'Mello, J.P.F.

Toxic factors in some tropical legumes

Dept. of Agric. Biochem., Edinburgh Univ., Edinburgh EH9 3JG, UK.

World Review of Animal Production, 1982, 18, 4, pp. 41-46

Descriptors: Leucaena leucocephala; toxicity; leguminosae; poisonous plants; Leucaena; legumes; Psophocarpus tretragonobalus; guar; toxins

Dairy Training and Research Institute, Philippines

Annual report 1983

Philippines, Dairy Training and Research Institute

Publ: Laguna, University of the Philippines, 1984, 78 pp.

Descriptors: Dairy research; Philippines; annual reports; Reports; Dairy Training and Research Institute; Dairy education

Damothiran, L.; Chandrasekaran, N.R.

Nutrition studies with Leucaena forage (Cattle)

Leucaena research reports. v. 3, July 1982. pp. 21-22.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: ANIMAL NUTRITION (L500)

Das, R.B.; Dalvi, G.S.  
Effect of interval and intensity of cutting of Leucaena leucocephala  
All-India Coordinated Res. Project for Dryland Agric., Hyderabad 500 013,  
A.P., India.  
Leucaena Research Reports, 1981, 2, p. 21.  
Descriptors: Leucaena leucocephala; spacing; cutting height cutting  
frequency

Das, R.B.; Venkat Reddy, N.  
Intercropping of Leucaena with grain crops  
Leucaena research reports. v. 3, July 1982. pp. 23-24.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Davis, P.E.  
Desmanthus virgatus as a test plant for dilution-frequency infection  
tests using Leucaena leucocephala rhizobia  
Soil biology and biochemistry. v. 14 (3), 1982. pp. 313-314.  
Oxford, England, Pergamon Press.  
Section Headings: SOIL BIOLOGY (J100); PLANT NUTRITION (F500)

Denton, F.H.  
Dendrothermal plantations in the Philippines  
Electrification Administration, Quezon, Philippines.  
Philippine Geographical Journal, 1981, 25, 4, pp. 150-154.  
Sec Jnl Source: Abstracts on Tropical Agriculture 9 (11) 49039. EMB.  
Descriptors: Leucaena leucocephala; electricity supplies; fuel plantations;  
Philippines; fuelwood; electricity;

Denton, F.  
Wood-energy developments in the Philippines (Tree farming, mainly  
Leucaena)  
Leucaena research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre.  
pp. 141-144. ill.  
Ottawa: The Centre, 1983.  
Section Headings: FORESTRY PRODUCTION -- GENERAL (K100); BIOMASS ENERGY  
SOURCES (P120)

Desai, S.N.; Bhoi, P.G.  
Assessment of production potential of food and forage under agro-forestry  
system  
Dept. of Agron., Mahatma Phule Agric. Univ., Rahuri 413 722, Maharashtra,  
India.  
Journal of Maharashtra Agricultural Universities, 1982, 71 (7), pp. 33-36.  
Descriptors: Desmanthus virgatus; Sesbania grandiflora; Leucaena  
leucocephala; Sesbania aegyptica; intercropping; cereals; Pennisetum  
americanum; wheat; trees

Desai, S.N.; Shoi, P.G.; Wani, A.G.  
Kubabul (Leucaena leucocephala) research in the Mahatma Phule Agricultural  
University, Rahuri (India, comparison with other species, performance in  
forage, fuel and food production)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 183-187.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Deshmukh, S.S.; Relwani, L.L.; Sutar, R.S.; Patil, B.P.  
Effect of stubble height and cutting frequency on the yield and quality of kubabul (Hawaiian common) (Leucaena leucocephala)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. p. 188.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Deshpande, V.V.

Leucaena leucocephala: a wonder tree (Multiple uses such as nitrogen fixation source, dye, forage, gums, cultivation programs, India)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 15-19.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FOREST PRODUCTS -- GENERAL (K500); AGRICULTURAL PRODUCTS -- PLANT (NONFOOD AND NONFEED) (S200); FORESTRY PRODUCTION -- GENERAL (K100)

Devendra, C.

New dietary protein sources for animal production in South East Asia  
Feed information and animal production. Proceedings of the Second Symposium of the International Network of Feed Information Centres.

Malaysian Agricultural Research and Development Inst. (MARDI), Serdang, Selangor, Malaysia.

Publ: Slough, UK; Commonwealth Agricultural Bureaux, 1983, pp. 479-483.

Descriptors: Protein sources; animal production; Asia; Tropics

Devendra, C.

The nutritive value of Leucaena leucocephala cv. Peru in balance and growth studies with goats and sheep

MARDI research bulletin. v. 10 (2), August 1982. pp. 138-150.

Serdang, Selangor: Malaysian Agricultural Research and Development Institute.

Section Headings: FEED COMPOSITION (R300); ANIMAL NUTRITION (L500)

Devendra, C.

Physical treatment of rice straw for goats and sheep and the response to substitution with variable levels of cassava (Manihot esculenta Crantz), leucaena (Leucaena leucocephala) and gliricidia (Gliricidia maculata) forages  
Malaysian Agricultural Research and Development Inst. (MARDI), PO Box 12301, GPO, Kuala Lumpur 01-02, Malaysia.

MARDI Research Bulletin, 1983, 11 (3), pp. 272-290.

Devendra, C.

The utilization of forages from cassava, pigeon pea, Leucaena and groundnut by goats and sheep in Malaysia



Morand-Fehr, P.; Bourbouze, A.; Simiane, M. de (Editors): Nutrition and systems of goat feeding. Volume 1: Nutrition et systemes d'alimentation de la chevre, Volume 1.

Agric. Res. and Development Inst., Serdang, Selangor, Malaysia.

Publ: Tours, France; ITOVIC-INRA, 1981, pp. 338-345.

Descriptors: Manihot esculenta; Cajanus cajan; Leucaena leucocephala; Arachis hypogaea; nutritive value; goats; intake digestibility; tropical fodder crops

Dias Filho, M.B.; Serrao, E.A.S.

Introduction and evaluation of forage legumes in the region of Paragominas, Para

Introducao e avaliacao de leguminosas forrageiras na regio de Paragominas, Para

Centro de Pesquisa Agropecuaria do Tropico Umido, 66.000 Belem, PA, Brazil.

Circular Tecnica, Centro de Pesquisa Agropecuaria do Tropico Umido, 1982, No. 29, 18 pp.

Descriptors: Stylosanthes guianensis; fertilizers; phosphorus; Stylosanthes hamata; Pueraria phaseoloides; Leucaena leucocephala; Centrosema pubescens; Calopogonium mucunoides; Neonotonia wightii; Macroptilium atropurpureum; Desmodium intortum; Galactia striata; chemical composition; calcium; Brazil

Dixon, R.M.; Priego, A.; Wyllie, D.; Preston, T.R.

Intake, rumen liquid flow rates and fermentation in bulls fed sisal pulp supplemented with Leucaena forage, pasture or rice polishings

Tropical animal production. v. 6 (1), 1981. pp. 37-43.

Santo Domingo, Dominican Republic, Consejo Estatal del Azucar, Division de Ganaderia y Boyada.

Section Headings: ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600); ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)

Djajanegara, A.; Rangkuti, M.

Residues of importance as potential animal feeds in Indonesia

The use of organic residues in rural communities [Shacklady, C.A. (Editor)]

Anim. Husbandry Res. Inst., Ministry of Agric., Ciawi, Bogor, Indonesia.

Publ: Tokyo, Japan; United Nations University 1983, pp. 3-10.

Descriptors: Indonesia; animal nutrition; crop residues; conferences; The use of organic residues in rural communities Ipomoea batatas; Manihot esculenta; straw; Leucaena leucocephala; Imperata cylindrica; agricultural byproducts; livestock feeding

Domingo, I.L.

Nitrogen fixation in southeast Asian forestry: research and practice

Biological nitrogen fixation in forest ecosystems: foundations and applications (edited by Gordon, J.C.; Wheeler, C.T.).

Paper Industries Corp. Philippines, Bislig, Surigao del sur, Philippines.

Publ.: The Hague, Netherlands; Nijhoff/Junk, 1983, pp. 295-315.

Descriptors: Albizia falcataria; Leucaena leucocephala; Fuel plantations; Leguminosae; Rhizobium; Philippines; Silviculture; South East Asia; Nitrogen fixation; Tree

Done, F.; Hughe-Jones, M.; Encarnacion, C.  
The ability of protein forages to stimulate intake and digestibility parameters of a whole chopped sugar cane diet  
CEDIPCA, CEAGANA, Santo Domingo, Dominican Republic.  
Tropical Animal Production, 1981, 6, 2, p. 194.  
Descriptors: Canavalia ensiformis; Leucaena leucocephala; Ipomoea batatas; Saccharum officinarum; intake; digestibility cattle; fodder mixtures

Doraisamy, K.A.  
Subabul leaf-meal as a feed ingredient in chick ration  
Dept. Animal Nutrition, Madras Veterinary College, Madras-600 007, India.  
Cheiron, 1984, 13, 5, pp. 262-264.  
Descriptors: Leucaena leucocephala; leaf meal; chicken fattening; body weight

Dovel, R.L.  
Germination of four warm-season legumes  
PR -- Texas Agricultural Experiment Station. Oct. 1984. (4253) pp. 154-159.  
College Station, Tex.: The Station.  
Descriptors: seed germination; temperatures; Alysicarpus rugosus; Desmanthus; Leucaena leucocephala; Rhynchosia minima  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Dreyfus, B.L.; Dommergues, Y.R.  
Nodulation of Acacia species by fast- and slow-growing tropical strains of rhizobium  
Laboratoire de Microbiologie des Sols, ORSTOM/Centre National de la Recherche Scientifique Dakar, Senegal.  
Applied and Environmental Microbiology, 1981, 41, 1, pp. 97-99.  
Descriptors: nodulation; Acacia spp.; bacteria (specified taxa); Rhizobium spp.

Dreyfus, B.; Dommergues, Y.  
Relationships between Rhizobia of Leucaena and Acacia spp.  
ORSTOM/CNRS, Dakar, Senegal.  
Leucaena Research Reports, 1981, 2, pp. 43-44.  
Descriptors: Leucaena leucocephala; Acacia; Rhizobium; nodulation

Duarte, F.; Elliott, R.; Preston, T.R.  
Fattening cattle with sugarcane juice: effect of the conservation of juice with ammonia and the use of Leucaena leucocephala as a source of protein and forage (Liveweight gain)  
Tropical animal production. v. 7 (3), 1982. pp. 169-173.  
Santo Domingo: Consejo Estatal del Azucar, Division de Ganaderia y Boyada.  
Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600); FEED COMPOSITION (R300)

Dubey, S.P.  
Kubabul (Leucaena leucocephala) -- a highly pampered species in India (Performance, comparison with native species)  
Leucaena leucocephala in India: proceedings of National Seminar,

Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 137-139.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION--GENERAL (K100)

Dubey, S.P.; Chaturvedi, J.K.

Madhya Pradesh (Leucaena leucocephala, silvicultural techniques, India, nursery, preseed treatment, sowing and transplanting)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 73-75.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Duguma, B.

Early response of four woody fallow species grown in acid ultisols to liming and phosphorus application

Dept. For. Resour. Mgt., univ. Ibadan, Nigeria.

Forestry Abstracts, 1983, 44, 10 p. 605.

Descriptors: Theses; fertilizers; Nigeria; Ca; P; Soil types; acid soils; Sesbania; Leucaena; Calliandra; Gliricidia; Seedlings; growth

Dutt, A.K.; Kaul, S.; Sumbria, S.D.

Effect of different rhizobial inoculant on seedling growth in Leucaena leucocephala var. K8

Leucaena research reports. v. 3, July 1982. p. 26.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: SOIL BIOLOGY (J100)

Dutt, A.K.; Pal, P.

Further observations on the growth of Leucaena in Jammu (India)

Leucaena research reports. v. 3, July 1982. pp. 27-28.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: SOIL BIOLOGY (J100)

Dutt, A.K.

Gummosis in Leucaena (Phytophthora drechsleri or Fusarium sp. as causal organism)

Leucaena research reports. v. 3, July 1982. p. 25.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT DISEASES -- FUNGAL (F831)

Ekpenyong, T.E.

Toxic effects of feeding leucaena leaves to growing rabbits

Nutrition reports international. Feb. 1985. v. 31 (2) pp. 345-350.

Los Altos, Calif.: Geron-X, Inc.

Descriptors: leucaena leucocephala; toxicity; mimosine; rabbits;

Geographic Location: Nigeria

Section Headings: FOOD COMPOSITION -- FIELD CROP PRODUCTS (Q504)

El-Harith, E.A. Zttfa; Hiller, A.; Ter Meulen, U.

The effect of administration of glycine and tyrosine on the growth depression caused by mimosine in rats (Leucaena leucocephala, alkaloid)

Zeitschrift für Tierphysiologie, Tierernährung und Futtermittelkunde  
Journal of animal physiology and animal nutrition. v. 50 (3), August 1983.  
pp. 132-137. ill.

Hamburg, W. Ger.: Paul Parey.

Section Headings: MISCELLANEOUS ANIMAL DISORDERS (L841)

El-Harith, E.A.; Mohme, H.; Meulen, U.ter.; Bartha, M.; Gunther, K.D.  
Effects of mimosine on some serum enzyme activities and amino acid  
metabolism in the rat (Toxicity mechanism, result of feeding on Leucaena  
leucocephala)

Zeitschrift für Tierphysiologie, Tierernährung und Futtermittelkunde  
Journal of animal physiology and animal nutrition. v. 46 (5), 1981. pp.  
255-263.

Hamburg, Parey.

Section Headings: ANIMAL DISEASES -- PHYSIOLOGICAL (L840)

Elliott, R.; Brandon, J.R.; Kenny, G.J.; Evans, T.R.  
Excretion patterns of 3-hydroxy-4 (1H) pyridone (DHP) by steers fed a high  
energy and a high-fibre diet supplemented with Leucaena leucocephala

The Journal of agricultural science. v. 103 (pt.1), August 1984. pp.  
239-243.

Cambridge: Cambridge University Press.

Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND  
BIOCHEMISTRY (L600)

Embrapa year 9. Notable research results in 1981

EMBRAPA ano 9. Destaques dos resultados de pesquisa de 1981

Brazil, Empresa Brasileira de Pesquisa Agropecuária.

Publ.: Brasilia, Brazil; EMBRAPA, 1982, 100 pp.

Descriptors: Brazil; annual reports; Leucaena leucocephala

Encarnacion, C.; Hughes-Jones, M.

The rate of degradability of feeds in rumen bags in animals receiving diets  
with and without molasses

CENIP y CEAGANA, Santo Domingo, Dominican Republic.

Tropical Animal Production, 1981, 6, 4 pp. 362-363.

Descriptors: Saccharum officinarum; Ipomoea batatas; Leucaena leucocephala;  
Pennisetum purpureum; digestibility; cattle; diet; molasses

Eriksen, F.I.; Whitney, A.S.

Growth and N fixation of some tropical forage legumes as influenced by solar  
radiation regimes

Dept. of Agron. and Soil Scie., Hawaii Univ., Honolulu, HI 96822, USA.

Agronomy Journal, 1982, 74, 4, pp. 703-709.

Descriptors: Leucaena leucocephala; Desmodium canum; Stylosanthes  
guianensis; Desmodium intortum; Centrosema pubescens; Macroptilium  
atropurpureum; light intensity; chemical composition; nitrogen; nitrogen  
fixation; legumes; meteorological factors; solar radiation

Escalada, R.G.

Manipulation of cultural practices for ipil-ipil and its effect on the  
intercropped cassava

Dept. of Agron. and Soil Sci., Visayas State Coll. of Agric., Baybay, Leyte, Philippines

Annals of Tropical Research, 1981, 3, 2, pp. 136-143.

Descriptors: Leucaena leucocephala; green manures; mixtures spacing; cassava; intercropping

Eusebio, G.A.

Effect of moisture content on the flaking characteristics of giant ipil-ipil (Leucaena leucocephala (Lam.) de Wit)

Housing & Materials R&D Cent., FRPDI, NSTA, College, Laguna, Philippines.

FRPDI Journal, 1983, 12, 3/4, pp. 41-48.

Descriptors: Wood chips; wood properties; characteristic; particleboards; raw materials; Leucaena leucocephala; Philippines; wood moisture; correlation

Evans, J.J.; Telek, L.

Determination of mimosine in Leucaena by amino acid analysis

Leucaena research reports. v. 3, July 1982. p. 78.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Evans, P.T.; Rombold, J.S.

Paraiso (Melia azedarach var. 'Gigante') woodlots: an agroforestry alternative for the small farmer in Paraguay

Peace Corps., c/o US Embassy, Asuncion, Paraguay

Agroforestry Systems, 1984, 2, 3, pp. 199-214.

Descriptors: Melia azedarach; Agroforestry; Paraguay; Furniture; raw materials; Veneers; Melia; Plywood

Evensen, C.I.

Chemical and non-chemical control of Leucaena: preliminary studies

Leucaena research reports. v. 3, July 1982. pp. 79-80.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: WEEDS (F900)

Falvey, J.L.

Establishment studies on Leucaena leucocephala in northern Australia (Potentially valuable pasture species for many areas of the tropics)

The International tree crops journal. v. 1 (4), 1981. pp. 237-243.

Berkhampsted, England, A B Academic.

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130)

Falvey, J.L.

Gliricidia maculata - a review

MPW Rural Development, 187-189 Canterbury Rd., Blackburn, Vic. 3130, Australia.

International Tree Crops Journal, 1982, 2, 1, pp. 1-14.

Descriptors: Gliricidia maculata; Choice of species; Tropics; agroforestry

Felker, P.; Clark, P.R.; Osborn, J.F.; Cannell, G.H.

Biomass estimation in a young stand of mesquite (Prosopis spp.) ironwood (Olneya tesota), palo verde (Cercidium floridum, and Parkinsonia aculeata), and leucaena (Leucaena leucocephala) (Tree legumes in southwestern United States)

Journal of range management. v. 35 (1), Jan. 1982. pp. 87-89.

Denver, Society for Range Management.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Felker, P. FOSCA; Cannell, G.H.; Clark, P.R.; Osborn, J.F.; Nash, P.  
Biomass production of prosopis specis (mesquite), Leucaena, and other  
leguminous trees grown under heat/drought stress (Cercidium floridum,  
fuelwood, Olneya tesota, Leucaena leucocephala, Parkinsonia aculeata,  
California Imperial Valley, arid lands)

Forest science. v. 29 (3), Sept. 1983. pp. 592-606.

Washington: Society of American Forestry.

Section Headings: FOREST PRODUCTS -- WOOD (K510); BIOMASS ENERGY SOURCES  
(P120); PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Felker, P.; Smith, D.; Smith, M.; Bingham, R.L.; Reyes, I.

Evaluation of herbicides for use in transplanting Leucaena leucocephala and  
Prosopis alba on semi-arid lands without irrigation (Oxyfluorfen, oryzalin,  
alachlor, metolachlor)

Forest science. v. 30 (3), Sept. 1984. pp. 747-755.

Washington: Society of American Foresters.

Section Headings: WEEDS (F900); FORESTRY PRODUCTION -- ARTIFICIAL  
REGENERATION (K120)

Felker, P.

Uses of tree legumes in semiarid regions

College of Agriculture, Texas A&I Univ., Kingsville, TX 78363, USA.

Economic Botany, 1981, v. 35 (2), pp. 174-186.

Descriptors: legumes; deserts; review

Food and Fertilizer Technology Center for the Asian and Pacific Region.

Asian pastures: recent advances in pasture research and development in  
Southeast Asia

Publ.: Taipei, China; Food and Fertilizer Technology Centre, 1984. 220 pp.

Descriptors: Asia; grasslands; research; Conferences; Asian pastures

Foster, A.F.; Blight, G.W.

Comparative use of the browse legume (Leucaena leucocephala) and urea-  
molasses to supplement beef cattle grazing native pasture in southeast  
Queensland

Dept. Primary Industries, "Brian Pastures", Gayndah, Qld. 4625, Australia.

Proceedings of the Australian Society of Animal Production, 1982, 14, pp.  
285-288.

Descriptors: Leucaena leucocephala; urea; molasses; supplements; pastures;  
cattle; feeding; Australia; tropics

Foster, A.H.; Blight, G.W.

Use of Leucaena leucocephala to supplement yearling and two year old cattle  
grazing speargrass in South-East Queensland

Dept. of Primary Industries, Brian Pastures Res. Sta., Gayndah, Qld. 4625,  
Australia.

Tropical Grasslands, 1983, 17, 4, pp. 170-178.

Descriptors: Leucaena leucocephala; grazing; Heteropogon contortus; Panicum maximum var. trichoglume; liveweight gain; intake; digestibility; cattle; legumes; Leucaena leucocephala; supplements; pastures; cattle; feeding

Fox, R.L.; Whitney, A.S.

Response of Leucaena leucocephala to lime applications in Hawaii  
Dept. of Agron. and Soil Scie., Hawaii Univ., Honolulu, HI 96822, USA.

Leucaena Research Reports, 1981, 2, pp. 69-70.

Descriptors: Leucaena leucocephala; soi's; pH; plant nutrition; aluminium; manganese; copper

Franco, a.a. (et al.) Hutton, E.M.; Valarini, M.J.; Bufarah, G.; Almeida, R.T. de; Vasconcelos, I.; Freire, V.F.; Silva, E.R. da; Faria, S.M. de; Campello, E.F.C.; Asconegui, M.A.M. de

Nutrition of leguminous trees

In Simposio sobre fixacao de nitrogenio em arvores tropicais (coordinated by Doberener, J.) Sept. 19-24, 1983, Rio de Janeiro, Brazil

EMBRAPA-UAPNPBS, 23460 Seropedica, Brazil.

Pesquisa Agropecuaria Brasileira, 1984, 19, Special issue, pp. 253-291.

Descriptors: Conferences; Nitrogen fixation in tropical trees; Brazil; nursery management; Soil types; acid soil; Soil chemistry; nitrogen; Nitrogen fixation; Leucaena; Mimosa; Prosopis; Mycorrhizas; soils; Fertilizers; Ca; NPK; Leucaena leucocephala; Leucaena diversifolia; Leucaena macrophylla; Leucaena shannoni; Mimosa scabrell; Mimosa caesalpiniaefolia; Prosopis juliflora; Rhizobium; Glomus; Sclerocystis; Gigaspora

Fraser, K.W.; D'Mello, J.P.F.

Methods of determination of tannins in Leucaena leucocephala

Dept. of Agric. Biochem., Edinburgh Sch of Agric., Edinburgh EH9 3JG, UK.

Leucaena Research Reports, 1981, 2, pp. 64-65.

Descriptors: Leucaena leucocephala; chemical composition; tannins

Gagne, R.J.; Stein, J.D.

Diadiplosis koebelei Koebele (Diptera: Cecidomyiidae), a rediscovered predator of scale insects

Memoirs of the Entomological Society of Washington. 1982. (10) pp. 65-69. ill.

Washington, D.C.: The Society.

Descriptors: Nipaecoccus vastator; predators of insect pests; diptera; taxonomy; biological control; Leucaena glauca;

Section Headings: PESTS OF PLANTS -- INSECTS (F821); ANIMAL TAXONOMY AND GEOGRAPHY (L700)

Gall, C. (Editor): Goat production, Devendra, C.

The goat in the humid tropics

MARDI, Pejabat Pos Universiti Pertanian, Serdang, Selangor, Malaysia.

Publ.: London, UK; Academic Press, 1981, pp. 557-573.

Descriptors: goats; tropics; Manihot esculenta; Leucaena latisiliqua; Hibiscus rosasiensis; Artocarpus heterophylla; Pennisetum purpureum; Panicum maximum; fodder; grazing; under trees

- Gallardo, A.; Leone, A.  
 Pasture evaluation in the desertic zone of Venezuela for the development of goat production  
 Proceedings of the XIV International Grassland Congress, held at Lexington, Kentucky, U.S.A., June 15-24, 1981 [Smith, J.A.; Hays, V.W. (Editors)].  
 Estacion Experimental, El Cuji, Venezuela.  
 Publ.: Boulder, Colorado, USA; Westview Press, 1983, pp. 367-369.
- Gandotra, R.K.  
 Jammu & Kashmir. II. (Leucaena leucocephala trees as forage, fuel and small timber source, silviculture, India, planting techniques)  
Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 68-72.  
 (New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
 Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)
- Gaya, H.; Hulman, B.; Preston, T.R.  
 Leucaena as a source of protein and roughage for milking cows given high levels of molasses/urea  
 Tropical animal production. v. 6 (2), 1981. p. 189.  
 Santo Domingo, Dominican Republic, Consejo Estatal del Azucar, Division de Ganaderia y Boyada.  
 Section Headings: ANIMAL NUTRITION (L500); FOOD COMPOSITION -- DAIRY PRODUCTS (Q501)
- Gaya, H.; Teeluck, J.P.; Nicolin, R.; Preston, T.R.  
Leucaena leucocephala as a combined source of protein and roughage for cattle fattened on molasses/urea: a comparison of different supplements  
 Tropical animal production. v. 6 (2), 1981. p. 187.  
 Santo Domingo, Dominican Republic, Consejo Estatal del Azucar, Division de Ganaderia y Boyada.  
 Section Headings: ANIMAL NUTRITION (L500)
- Getahun, A.  
 Increasing food production in the agroforestry systems of the humid and tropical lowlands  
 IITA, Ibadan, Nigeria.  
 IITA Research Briefs, International Institute for Tropical Agriculture, Nigeria, 1981, 2, 3, pp. 2-7.  
 Sec. Jnl. Source: Abstracts on Tropical Agriculture 8 (4) 40916. EMB.  
 Descriptors: Nigeria; agroforestry; research; Leucaena leucocephala; Alchornea cordifolia
- Gewald, N.J.; Ugalde, L.  
 Growth of Leucaena leucocephala in La Garita de Alajuela, Costa Rica (Precipitation).  
 Ensayo de Leucaena leucocephala en La Garita de Alajuela, Costa Rica  
 Leucaena research reports. v. 3, July 1982. p. 15.  
 Taipei, Taiwan: Council for Agricultural Planning and Development.



Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); METEOROLOGY AND CLIMATOLOGY (B200)

Ghatnekar, S.D.; Auti, D.G.; Kamat, V.S.

Biomanagement of leucaena plantations by Ion Exchange (India) Ltd.

Leucaena research in the Asian-Pacific region.

Ion Exchange (India) Ltd., Ambarnath, Maharashtra, India.

Publ.: Ottawa, Ontario, Canada, 1983, pp. 109-112.

Descriptors: Conferences; Leucaena research in the Asian-Pacific region; Leucaena leucocephala; spacing; irrigation; mixtures; growth regulators; cutting

Ghatnekar, S.D.; Auti, D.G.; Kamat, V.S.

Feeding Leucaena to Mozambique Tilapia and Indian major carps

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre.

pp. 61-63.

Ottawa: The Centre, 1983.

Section Headings: ANIMAL NUTRITION (L500); AQUACULTURE RELATED (M001)

Ghosh, R.C. (et al.) Adarsh Kumar; Kumar, A.; Chaves, R.; Kageyama, P.Y.; Garcia Lopez de Lara, P. de la; Ortega, C.

Germination of tropical forest tree seed

For. Res. Inst. & Colleges, Dehra Dun, India.

Publicacion Especial, Instituto Nacional de Investigaciones Forestales, Mexico, 1981, reed. 1983, No. 35, pp. 265-295.

Descriptors: Pinus roxburghii; Delonix regia; Swietenia macrophylla; Swietenia humilis; Ceiba pentandra; Leucaena leucocephala; Cedrela odorata; Seed; germination; Pinu; Delonix; Swietenia; Ceiba; Leucaena; Cedrela; Dormanc; Conferences; Tropical forest seed problems; Pinus roxburghii; germination; Delonix regia; Swietenia macrophylla

Giertych, M.M. (Chairman); Lindeberg, G.; Lundeberg, G.; Longman, K.A.; Dick, J.M.; Yokoyama, T.; Kim, K.H.; Smith, D.R.; Aitken, J.; Sweet, G.B.; Egenti, L.C.; Nagao, A.; Sasaki, S.; Pollisco, F.S.; Takagi, T.; Takahasi, K.; Menzie, M.I.; Yoshie, F.; Niki, T.; Sakai, A.; Brewbaker, J.L.; Ho, T.W.

Congress Group 2.1: Physiology

Proceedings, XVII IUFRO World Congress, Kyoto, Japan, Sept. 6-17, 1981: Callaham, R.Z. (Coordinator): Division 2: Forest plants and forest protection.

Inst. Dendrol., PAN, Ul. Parkowa 5, 63-120 Kornik, Poland.

Publ.: Tsukuba, Ibaraki, Japan; Japanese IUFRO Congress Committee, 1981, xiii + 636 pp.

Descriptors: Pinus radiata; genetics; breeding; injury; frost; Pinus spp.; leaf; anatomy; Tectona grandis; pollination; Cryptomeria japonica; seed; physiology; flowering; Chamaecyparis obtusa

Gill, M.; Done, F.; Berry, S.; Preston, T.R.

The effect of forage on voluntary intake and liveweight gain in cattle receiving sugar cane juice

Centro de Investigacion Pecuaria (CENIP)/CEAGANA, Aptd 1256, Santo Domingo, Dominican Republic

Tropical Animal Production, 1981, 6, 3, pp. 230-233.  
Descriptors: forage; Leucaena leucocephala; protein supplements; cattle; feeding; sugarcane; juices

Gill, A.S.; Patil, B.D.; Yadav, C.L.  
Intercropping studies in Leucaena  
Leucaena research reports. v. 3, July 1982. p. 30.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Gill, A.S.; Patil, B.D.  
Leucaena foliage as a source of green manure (Effect on the forage yield of sorghum)  
Leucaena research reports. v. 3, July 1982. p. 29.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: SOIL FERTILITY AND FERTILIZERS (J500)  
Gill, A.S.; Patil, B.D.

A preliminary study on grass-tree interplanting  
Indian Grassland and Fodder Res. Inst., Jhansi 284 003, U.P., India.  
Leucaena Research Reports, 1981, 2, p. 24.  
Descriptors: Cenchrus ciliaris; mixtures; legumes; trees; Sesbania grandiflora; Leucaena leucocephala; grasses

Giron, M.Y.; Ballon, C.H.  
Study on the artificial cultivation of edible species of wood-inhabiting fungi  
FORPRIDECOM, NSDB, College, Laguna 3720, Philippines.  
Forpride Digest, 1981, 10, 3/4, pp. 41-44.  
Descriptors: Albizia falcataria; Leucaena leucocephala; sawdust; fungi; edible species

Gloria, L.A.; Abogadie, F.C.; Bermoy, C.M.; Salas, F.M.; Sembrano, A.G.T.; Sombilon, E.M.

Chemical and biochemical evaluation of some local foodstuffs  
Dept. Agricultural Chemistry and Food Science, Visayas State College of Agriculture, ViSCA, Leyte, Philippines.  
Annals of Tropical Research, 1982, 4, 4, pp. 281-284.  
Descriptors: Foods; composition; Philippines; protein quality

Glovak, L.; Greatbatch, W.  
Successful tissue culture of Leucaena  
Leucaena research reports. v. 3, July 1982. pp. 81-82.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Godoy, R.; Elliott, R.  
Effect of tropical forages on rumen function and flow of nutrients to the proximal duodenum in cattle fed a molasses/urea diet  
Facultad de Medicina Veterinaria y Zootecnia, Univ., Yucatan, Apartado 116-D, Merida, Yucatan, Mexico.

Tropical Animal Production, 1981, 6, 2, pp. 159-166.

Descriptors: rumen; function; forage; molasses, urea; intake; cattle; tropics; rumen motility

Gogate, M.G.; Sharma, K.K.

Some thoughts on kubabul (Leucaena leucocephala) -- another mirage? (Exotic plant in India, comparison with native species, forage, timber and fuel source, planting trials)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 140-147.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Goncalves, C.A.; Medeiros, J. da C.; Oliveir, J.R. da C.

Introduction and evaluation of forage grasses and legumes in Rondonia

Introducao e avaliacao de gramineas e leguminosas forrageiras em Rondonia.

Unidade de Execucao de Pesquisa de Ambito Estadual, 78.900 Porto Velho, RO, Brazil.

Boletim de Pesquisa, UEPAE - Porto Velho, 1982, No. 1, 33 pp.

Descriptors: Brachiaria humidicola; Brazil; Axonopus; Panicum maximum var. gongyloides; Setaria sphacelata; Paspalum plicatulum; Pueraria phaseoloides; Centrosema pubescens; Leucaena leucocephala; Desmodium intortum; plant introductions; fertilizers; phosphorus

Gonzalez Vargas, D.; Wyllie, D.

Nutritive value of Leucaena for the growing pig

Leucaena research reports. v. 3, July 1982. p. 76.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: ANIMAL NUTRITION (L500)

Gonzalez Vargas, D.; Wyllie, D.

Treated dried Leucaena meal in diets for growing pigs

Leucaena research reports. v. 3, July 1982. pp. 74-75.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: ANIMAL NUTRITION (L500)

Gowda, D.R.; Devegowda, G.; Ramappa, B.S.

Effect of kubabul leaf meal (Leucaena leucocephala) and sorghum in layer diets

Dept. Poultry Science, Univ. Agricultural Sciences, Hebbal, Bangalore-560 024, India.

Indian Journal of Poultry Science, 1984, 19, 3, pp. 180-186.

Descriptors: Leucaena leucocephala; leaf meal; hen feeding; Sorghum; egg production; Sorghum; plant composition; nutritional value

Goyal, Y.; Bingham, R.L.; Felker, P.

Propagation of the tropical tree, Leucaena leucocephala K67, by in vitro bud culture

Caesar Kleberg Wildlife Res. Inst., Coll. Agric., Campus Box 218, Texas A & I Univ., Kingsville, TX 78363, USA.

Plant Cell, Tissue and Organ Culture, 1985, 4, 1, pp. 3-10.

Descriptors: Leucaena leucocephala; tissue culture; growth regulators; BA; NAA; buds; NAA; IAA; Kinetin

Gupta, T.; Mohan, D  
Economics of trees versus annual crops on marginal agricultural lands  
Centre for Management in Agriculture (CMA), Indian Inst. Mgt., Ahmedabad,  
India.  
Publ.: New Delhi, India; Oxford & IBH Publishing Co., 1982, xvi + 139 pp.  
Descriptors: Books; rural economy; India, Rajasthan; Acacia tortilis;  
Albizia lebbek; Prosopis cineraria; Prosopis juliflora; Zizyphus; Leucaena  
leucocephala; agroforestry; afforestation; Land use; planning; Economic; vs.  
agriculture

Gupta, P.C.; Khirwar, S.S.; Kripal Singh  
Koobabul, a promising fodder tree  
Dept. Anim. Nutrition, Haryana Agric. Univ., Hissar, India.  
Indian Farming, 1983, 32, 10, pp. 21-22.  
Descriptors: India; Leucaena leucocephala; fodder; foliage

Gupta, V.K.; Patil, B.D.  
Prospects of kubabul breeding in India (Leucaena leucocephala, forage  
source)  
Leucaena leucocephala in India: proceedings of National Seminar,  
Urulikranchan, June 26-27, 1981/edited by R.N. Kau, M.G. Gogate & N.K.  
Mathru. pp. 160-166.  
(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
Section Headings: PLANT BREEDING (F200); FORESTRY RELATED (K001)

Gupta, S.K. IJFOD; Pathak, P.S.; Dev Roy, R.  
Seedling growth of Leucaena leucocephala (Lam.) De Wit. II. Effect of seed  
size  
Indian journal of forestry. v. 6 (3), Sept. 1983. pp. 202-204.  
Dehra Dun: G.S. Gahlot.  
Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Gutteridge, R.C.  
Productivity of forage legumes on rice-paddy walls in northeast Thailand  
Proceedings of the XIV International Grassland Congress, held at Lexington,  
Kentucky, U.S.A., June 15-24, 1981 [Smith, J.A.; Hays, V.W. (Editors)]

Khon Kaen Univ., Khon Kaen, Thailand.  
Publ.: Boulder, Colorado, USA; Westview Press, 1983, pp. 226-229.  
Descriptors: conferences; International Grassland Congress; Stylosanthes  
scabra; Stylosanthes hamata; Stylosanthes viscosa; Leucaena leucocephala;  
oversowing; rice stubble; chemical composition; nitrogen

Hacker, J.B.; Shaw, N.H.; Marnette, L.  
More beef from spear grass country. Pasture research at Rodd's Bay, Central  
Queensland, 1945-1977.  
Publ.: St. Lucia, Queensland, Australia; CSIRO Division of Tropical Crops  
and Pastures, 1982, 41 pp.  
Descriptors: Australia; Queensland; grassland improvement; Chloris gayana;  
Paspalum plicatulum; Panicum; Stylosanthes humilis; Macroptilium  
atropurpureum; Leucaena leucocephala; liveweight gain

Halliday, J.

Nitrogen fixation by *Leucaena* in acid soils

Hawaii Univ., Pai, HI 96779, USA.

*Leucaena* Research Reports, 1981, 2, pp. 71-72.

Descriptors: *Leucaena*; nitrogen fixation; soils; pH

Halliday, J.; Somasegaran, P.

Nodulation, nitrogen fixation, and *Rhizobium* strain affinities in the genus *Leucaena*

*Leucaena* research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 27-32.

Ottawa: The Centre, 1983.

Section Headings: SOIL BIOLOGY (J100)

Halliday, J.; Nakao, P.

Technical note on the germination of leguminous tree seeds

In Simposio sobre fixacao de nitrogenio em arvores tropicais [coordinate b: Dobereiner, J.] Sept. 19-24, 1983, Rio de Janeiro, Brazil.

NIFTAL Project, Paia Maui, Hawaii 96779, USA.

Pesquisa Agropecuaria Brasileira, 1984, 19, Special issue, pp. 231-234.

Descriptors: Conferences; Nitrogen fixation in tropical trees; Seed; germination; Leguminosae; *Acacia albida*; *Acacia auriculiformis*; *Acacia cyanophylla*; *Acacia holosericea*; *Acacia mangium*; *Acacia mellifera*; *Acacia nilotica*; *Acacia nubica*; *Acacia pennatula*; *Acacia senegal*; *Acacia seyal*; *Albizia chinensis*; *Albizia falcataria*; *Albizia lebbek*; *Albizia julibrissin*; *Albizia moluccana*; *Albizia polyphyll*; *Brachystegia spiciformis*; *Calliandra calothyrsus*; *Cassia siamea*; *Enterolobium cyclocarpum*; *Gliricidia sepium*; *Julbernardia globiflora*; *Leucaena leucocephala*; *Pithecellobium dulce*; *Pithecellobium lanceolatum*; *Prosopis africana*; *Prosopis juliflora*; *Prosopis tamarug*; *Piscidia communis*; *Samanea saman*; *Sesbania grandiflora*; *Tamarindus indica*; Acacia; germination; scarificatio; *Albizia*; *Brachystegia spiciformis*; *Calliandra calothyrsu*; *Cassia siamea*; *Enterolobium cyclocarpum*; *Gliricidia sepiu*; *Julbernardia globiflora*; *Leucaena leucocephala*; *Pithecellobium*; *Prosopis*; *Piscidia communis*; *Samanea sama*; *Sesbania grandiflora*; *Tamarindus indica*

Haro, A. de

Nutritive quality of grain legumes and its genetic control

La calidad nutritiva de las leguminosas-grano y su control genetico

Leguminosas de grano [edited by Cubero, J.I.; Moreno, M.T.].

Departamento de Genetica, Escuela Tecnica Superior de Ingenieros Agronomos, Cordoba, Spain.

Publ.: Madrid, Spain; Mundi-Prensa, 1983, pp. 211-247.

Descriptors: Legumes; seeds; nutritive value; genetics; whole soybean

Harris, D.J.; Cheeke, P.R.; Patton, N.M.; Brewbaker, J.L.

A note on the digestibility of *Leucaena* leaf meal in rabbits (*Leucaena leucocephala*, feed composition)

The Journal of applied rabbit research. v. 4 (4), 1981. p. 99. ill.

Corvallis: OSU Rabbit Research Center.

Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)

Hedge, N.; Ross, E.; Brewbaker, J.L.

Effects of *Leucaena* leaf meal in feed for Japanese quail (Mimosine and tannin as toxic substances)

*Leucaena* research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 79-82. Ottawa: The Centre, 1983.

Section Headings: ANIMAL NUTRITION (L500); FEED CONTAMINATION AND TOXICOLOGY (R200)

Hegde, N.

*Leucaena* forage management in India

*Leucaena* research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 73-78. ill.

Ottawa: The Centre, 1983.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Hegde, N.

Use of gibberellin for accelerating growth of *Leucaena* seedlings

*Leucaena* research reports. v. 3, July 1982. p. 83.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Hegde, N.G.

Kubabul for afforestation (*Leucaena leucocephala*)

*Leucaena leucocephala* in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 189-195.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Hernandez, R. S.

Forest trees useful as browse and fodder

Especies arboreas forestales susceptibles de aprovecharse como forraje

INIF, Huexotla, Mexico, Mexico.

Ciencia Forestal, 1981, 6, 29, pp. 31-39.

Descriptors: Brosimum alicastrum; Enterolobium cyclocarpum; Leucaena glauca; Pithecellobium dulce; Guazuma ulmifolia; Prosopis laevigata; Lysiloma divaricata; Ficus padifolia; Ficus cotinifolia; Hymenaea courbaril; Haematoxylon brasiletto; Cochlospermum vitifolium; Eysenhardtia polystachia; Cercidium praecox; Quercus crassifolia; Tecoma stans; Acacia farnesiana; fodder; foliage; fruit; Mexico; browse

Herrera, F.; Ferreiro, M.; Elliott R.; Preston, T.R.

The effect of molasses supplements on voluntary feed intake, liveweight gain and rumen function in bulls fed basal diets of ensiled sisal pulp

Facultad de Medicina Veterinaria y Zootecnia, Yucatan Univ., Merida, Yucatan, Mexico.

Tropical Animal Production, 1981, 6, 2, pp. 178-185.

Descriptors: Agave fourcroydes silage; cattle; intake; liveweight gain; supplementation effects; Leucaena leucocephala

Hiremath, N.B.

Kubabul (Leucaena leucocephala) -- a wonder plant (Forage crops, cultivation).

Indian dairyman. v. 33 (6), June 1981. pp. 351-356. ill.

New Delhi, Indian Dairy Association.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Hodam, R.H.

A reforestation and rural energy project in the Philippines

Hodam & Associates, Old Sacramento, CA, USA.

Natural Resources Forum, 1982, 6, 3, pp. 268-272.

Descriptors: energy resources; Philippines; agroforestry; fuel plantation; Leucaena leucocephala; energy; afforestation; projects

Hodges, C.S.; Tenorio, J.A.

Root disease of Delonix regia and associated tree species in the Mariana Islands caused by Phellinus noxius

Commonw. of Northern Mariana Islands, Saipan, North Mariana Islands.

Plant Disease, 1984, 68, 4, pp. 334-336.

Descriptors: Forest trees; Phellinus noxius; Mariana Islands, Delonix regia; Citrus; Breadfruit; Albizia lebbe; Bauhinia; Casuarina; Erythrina; Leucaena leucocephala; Thespesia populnea; Root and butt rots; distribution

Hoekstra, D.A.

An economic analysis of a simulated alley cropping system for semi arid conditions, using micro computers (Leucaena leucocephala)

Agroforestry systems. v. 1 (4), 1983. pp. 335-345.

The Hague: Martinus Nijhoff/W. Junk.

Section Headings: ECONOMICS -- GENERAL (E100); FORESTRY RELATED (K001); MATHEMATICS AND STATISTICS (X100)

Hoekstra, D.A.

Leucaena leucocephala hedgerows intercropped with maize and beans: an ex ante analysis of a candidate agroforestry land use system for the semi-arid areas in Machakos District

Working Paper, International Council for Research in Agroforestry, Kenya, 1983, No. 3, 15 pp.

Descriptors: agroforestry; economics; Kenya; Leucaena leucocephala; hedges; mulching

Hogberg, P.; Kvarnstrom, M.

Nitrogen fixation by the woody legume Leucaena leucocephala in Tanzania

Plant and soil. v. 66 (1), 1982. pp. 21-28.

The Hague, The Netherlands, Martinus Nijhoff.

Section Headings: SOIL BIOLOGY (J100)

Holmes, J.H.G.; Humphrey, J.D.; Walton, E.A.; O'Shea, J.D.  
Cataracts, coitre and infertility in cattle grazed on an exclusive diet  
of Leucaena leucocephala

Australian veterinary journal. v. 57 (6), June 1981. pp. 257-261.  
ill.

Artarmon, N.S.W., Australian Veterinary Association.  
Section Headings: MISCELLANEOUS ANIMAL DISORDERS (L841)

Holmes, J.H.G.

Deleterious effects of Leucaena leucocephala on grazing cattle  
Animal production and health in the tropics. Proceedings of the First  
Asian-Australasian Animal Science Congress, Serdang, September 2nd-5th, 1980,  
[edited by M.R. Jainudeen and A.R. Omar].

Publ.: Serdang, Selangor, Malaysia; Universiti Pertanian, 1982, pp. 137-  
141.

Descriptors: Leucaena; goitre

Holmes, J.H.G.

Toxicity of Leucaena leucocephala for steers in the wet tropics  
Tropical animal health and production. v. 13 (2), May 1981. pp. 94-100.  
Edinburgh, Longman.

Section Headings: MISCELLANEOUS ANIMAL DISORDERS (L841)

Holst, P.J.

The evaluation of Leucaena leucocephala for the induction of moulting in  
cashmere goats

Agricultural Research Station, Cowra, NSW 2794, Australia.

Proceedings of the Australian Society of Animal Production, 1982, 14, p.  
632.

Descriptors: cashmere; moulting; induction; nutrition; mimosine; goats

Holt, E.C.; Michaud, M.W.

The evaluation of Leucaena as a warm-season legume

PR -- Texas Agricultural Experiment Station. Oct. 1984. (4253) pp. 141-153.  
College Station, Tex.: The Station.

Descriptors: leucaena; vigor; winter hardiness; plant height; maturity  
stage; forage; crop yield

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130)

Hongo, F. NICKA; Kawashima, Y.; Shiroma, S.; Fukazawa, T.

Purification of mimosine from Leucaena leucocephala de Wit and its  
physiological activity for mice (Feeding, toxicity).

Nihon Chikusan Gakkai ho = Japanese journal of zootechnical science.  
54 (4), April 1983. pp. 217-223. ill.

Tokyo: Nihon Chikusan Gakkai.

Section Headings: ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600); ANIMAL  
NUTRITION (L500); VETERINARY PHARMACOLOGY AND IMMUNE THERAPEUTIC AGE (L810)

Hopkins, M.W.; Antal, M.J. Jr.; Kay, J.G.

Radiant flash pyrolysis of biomass using a Xenon flashtube (Lignin,  
redwood, corn cob, Calotropis, Procera, Leucaena wood, Kraft paper,  
newsprint, cow manure, D-glucose, D-cellobiose)



Journal of applied polymer science. v. 29 (6), June 1984. pp. 2163-2175. ill.

New York: John Wiley & Sons.

Section Headings: BIOMASS ENERGY SOURCES (P120)

Hsieh, H.J.

Diseases of *Leucaena* in Taiwan (Damping-off, leaf spots, rots, rust)

*Leucaena* research reports. v. 3, July 1982. p. 58.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT DISEASES -- FUNGAL (F831)

Hsieh, H.-J.

Survey of diseases of woody plants in Taiwan (4)

IRAT - Reunion, Rapport annuel 1980.

Taiwan For. Res. Inst., Taipei, Taiwan.

Publ.: St. Denis, Reunion.

Quarterly Journal of Chinese Forestry, 1981, 14, 3 pp. 77-85.

Descriptors: woody plants; diseases; Taiwan; Venturia rhododendri; Septoria azaleae; Rhododendron mucronatum; Uncinula australiana; Lagerstroemia subcostata; Pythium splendens; Rhizoctonia solani; Schefflera arboricola; Glomerella cingulata; Camellia oleifera; Microsphaera alphitoides; Cinnamomum camphora; Uredo leucaenae-glaucuae; Leucaena leucocephala

Hu, T.W.; Cheng, W.E.; Shen, T.A.

Effect of soil pH on the growth and nutrient levels of seedling of four leguminous tree species (*Acacia auriculiformis*, *Acacia mangium*, *Calliandra calothyrsus*, *Leucaena leucocephala*).

Bulletin -- Taiwan Forestry Research Institute. Feb. 1984. (409), Feb. 1984. 14 pp.

Taipei, China: T'aiwan sheng lin yeh shih yen so.

Section Headings: SOIL CHEMISTRY AND PHYSICS (J200); FORESTRY RELATED (K001)

Hu, T.W.; cheng, W.E.

The growth and nutrient levels of Leucaena leucocephala response to lime and phosphorus on acid soil

Taiwan Forestry Res. Int., Taipei, Taiwan.

*Leucaena* Research Reports, 1981, 2, pp. 48-49.

Descriptors: Leucaena leucocephala; soils; pH; growth; nutrient uptake

Hu, T.W.; Shih, W.C.

The growth of different varieties of *Leucaena* in Taiwan (Trees)

*Leucaena* research reports. v. 3, July 1982. p. 62.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Hu, T.W.; Kiang, T.

*Leucaena* research in Taiwan (Wood and forage production)

*Leucaena* research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 127-132.

Ottawa: The Centre, 1983.  
Section Headings: FORESTRY PRODUCTION -- GENERAL (K100); PLANT PRODUCTION  
-- FIELD CROPS (F120)

Hu, T.W.; Liu, C.C.

Vegetable propagation of Leucaena by leafy cuttings under mist spray  
Taiwan Forestry Res. Inst. Taipei, Taiwan.

Leucaena Research Reports, 1981, 2, p. 50.

Descriptors: Leucaena leucocephala; vegetative propagation

Hu, T.W.; Shih, W.C.

Wood production of spacing trial of Leucaena in Taiwan

Leucaena research reports. v. 3, July 1982, pp. 59-61.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Huang, R.S.; Yost, R.S.; Fox, R.L.; Habte, M.; Murdoch, C.L.

Effects of three mycorrhizal isolates on Leucaena leucocephala growth at  
three soil pH levels

Dept. Agron. Soil Sci., Univ. Hawaii, Honolulu, Hawaii 96822, USA.

Leucaena Research Reports, 1983, 4, pp. 83-85.

Descriptors: Mycorrhizas; Leucaena leucocephala; Glomus; growth;  
nodulation; Glomus mosseae, Glomus etunicatum; Glomus fasciculatum

Huang, R.S.; yost, R.S.; Smith, W.K.

Influence of VA mycorrhiza on growth, nutrient absorption and water  
relations in Leucaena leucocephala

Dept. Agron. Soil Sci., Univ. Hawaii, Honolulu, Hawaii 96822, USA.

Leucaena Research Reports, 1983, 4, pp. 86-87.

Descriptors: Leucaena leucocephala; Glomus fasciculatum; mycorrhizas;  
growth; water relations

Huang, R.S.; Smith, W.K.; Yost, R.S.

Influence of vesicular-arbuscular mycorrhiza on growth, water relations, and  
leaf orientation in Leucaena leucocephala (Lam.) De Wit.

Dept. Agron. Soil Sci., Univ. Hawaii at Manoa, Honolulu, Hawaii 96822, USA.

New Phytologist, 1985, 99, 2, pp. 229-243.

Descriptors: mycorrhizas; Leucaena leucocephala; Glomus fasciculatum;  
growth; water relations; Plant water relations

Hughes, C.E.; Styles, B.T.

Exploration and seed collection of multiple-purpose dry zone trees in  
Central America

CFI, Univ. Oxford, S. Parks Rd., Oxford, UK.

International Tree Crops Journal, 1984, 3, 1, pp. 1-31.

Descriptors: Acacia deamii; Acacia farnesiana; Acacia pennatula; Albizia  
guachepele; Aploplanesia paniculata; Ateleia herbert-smithii; Caesalpinia  
coriaria; Caesalpinia eriostachys; Caesalpinia velutina; Enterolobium  
cyclocarpu; Gliricidia sepium; Haematoxylon brasiletto; Leucaena diversifolia;  
Leucaena leucocephala; Leucaena shannoni; Mimosa tenuiflora; Myrospermum  
frutescens; Parkinsonia aculeata; Pithecollobium dulce; Prosopis juliflora;  
Senna atomaria; Alvaradoa amorphoides; Crescentia alata; Guazuma ulmifolia;

Simarouba glauca; seed; collection; Guatemala; Honduras; Nicaragua; fodder; foliage; fruit; fuelwood; resources; fences; shade trees; minor forest products; Acacia deamii; seed collection; Central America; Acacia farnesiana; Acacia pennatula; Albizia guachepele; Aploplanesia paniculata; Ateleia herbert-smithii; Caesalpinia coriaria; Caesalpinia eriostachys; Caesalpinia velutina; Enterolobium cyclocarpum; Gliricidia sepium; Haematoxylon brasiletto; Leucaena diversifolia; Leucaena leucocephala; Leucaena shannoni; Mimosa tenuiflora; Myrospermum frutescens; Parkinsonia aculeata; Pithecellobium dulce; Prosopis juliflora; Senna atomaria; Alvaradoa amorphoides; Crescentia alata; Guazuma ulmifolia; Simarouba glauca

Hughes-Jones, M.; Encarnacion, C.; Done, F.; Preston, T.R.

The influence of forages on digestion parameters of a sugar cane diet (Leucaena leucocephala, Canavalia ensiformis, Ipomea batata, wheat bran, cattle)

Tropical animal production. v. 6 (3), 1981. pp. 279-283. ill.

Santo Domingo, Dominican Republic, Consejo Estatal del Azucar, Division de Ganaderia y Boyada.

Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600)

Hulman, B.; Preston, T.R.

Leucaena leucocephala as a source of protein for growing animals fed whole sugar cane and urea

Min. of Agric. and Natural Resources, Reduit, Mauritius.

Tropical Animal Production, 1981, 6, 4, pp. 318-321.

Descriptors: Leucaena leucocephala; liveweight gain; intake Saccharum officinarum; cattle; tropical crops; feeding; protein supplements; sugarcane

Hulman, B.; Naseeven, M.R.; Mapoon, L.K.; Teeluck, J.P.

"Leucaena leucocephala" - its use and limitations for animal production

Animal Production Division, Ministry of Agriculture, Fisheries and Natural Resources, Reduit, Mauritius.

Tropical Veterinary Journal, 1983, 1, 1, pp. 97-102.

Descriptors: Leucaena leucocephala; livestock feeding; Mauritius; Tropics

Hutton, E.M.

Interrelation of Ca (calcium) and Al (aluminum) in adaptation of Leucaena to very acid soils (in tropical South America)

Leucaena research reports. v. 3, July 1982. pp. 9-11.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: SOIL FERTILITY AND FERTILIZERS (J500)

Hutton, E.M.

Natural crossing and acid tolerance in some Leucaena species

CIAT, Cali, Colombia.

Leucaena Research Reports, 1981, 2, pp. 2-4.

Descriptors: Leucaena; soil pH; interspecific hybridization outcrossing; sterility and fertility; self sterility

Hutton, E.M.

Selection and breeding of Leucaena for very acid soils

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 23-26. Ottawa: The Centre, 1983.

Section Headings: PLANT BREEDING (F200)

Hutton, E.M.; Tabares, Z.E.

Leucaena esculenta and Leucaena trichodes -- some similarities and differences (Cultivation, planting characteristics, genetics, crossing and chromosomes, forestry potential)

Leucaena research reports. v. 3, July 1982. pp. 12-13.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100); PLANT BREEDING (F200)

Hyder, S.Z.; Al-Thamari, M.A.; Al-Eyyed, S.

Effect of salt stress on germination and seedling development in Leucaena leucocephala

Reg. Agric. and Water Res. Cent., Min. of Agric. and Water, Riyadh, Saudi Arabia.

Arab Gulf Journal of Scientific Research, 1984, 2, 2, pp. 711-720.

Descriptors: Leucaena leucocephala; seed germination; salinity; seedlings; growth; nutrient uptake; sodium; potassium; chlorides;

Ibrahim, K.M.; Orodho, A.

Test adaptation and evaluation trials of forage plants in major ecological regions of Ethiopia and Kenya

Proceedings of the XIV International Grassland Congress, held at Lexington, Kentucky, U.S.A., June 15-24, 1981 [Smith, J.A.; Hays, V.W. (Editors)].

National Agric. Res. Sta., Kitale, Kenya.

Publ.: Boulder, Colorado, USA; Westview Press, 1983, pp. 240-243.

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Trop. Agric. Res. Cent., Ishigaki, Okinawa, Japan.

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Descriptors: Annual reports; Australia; Cereals; fertilizers; nitrogen;  
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Descriptors: Buffaloes; Asia; conferences; Buffalo production in Asia

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IDRC, Box 8500, Ottawa, Canada K1G 3H9.  
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Africa; maize; tractors

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Publ.: Ibadan, Nigeria, 1981, pp. 21-28.  
Descriptors: maize; residues; disposal; fertilizers; nitrogen; cultivation;  
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Descriptors: *Neptunia gracilis*; *Coronilla varia*; *Onobrychis viciifolia*; *Sophora* spp.; *Astragalus onobrychis*; *Caragana arborescens*; *Leucaena leucocephala*; *Leucaena insularum*; *Lotus corniculatus*; *Mimosa invisa*; *Rhizobium* spp.; strains; cross inoculation

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Jones, P.H.

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Australian Meat Research Committee, Eighteenth annual report, year ended June 30, 1984

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Information Service, CSIRO Division of Tropical Crops and Pastures, 1982, No. 41-4, 4 pp.

Descriptors: Leucaena leucocephala; establishment; weed control; grazing; toxicity; seed treatments

Jones, R.J.; Lowry, J.B.

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CSIRO Div. Trop. Crops Pastures, Davies Lab., P.M.B., PO, Atkenvale, Townsville, Queensland, Australia 4814.

Experientia, 1984, 40, 12, pp. 1435-1436.

Descriptors: Mimosine; Rumen flora; Animal experiments; Leucaena; leucocephala; goitrogen; Thyroid antagonists

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Div. of Tropical Crops and Pastures, CSIRO, Townsville, Qld., Australia 4814.

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The effect of different proportions of Leucaena leucocephala in the diet of cattle on growth, feed intake, thyroid function and urinary excretion of 3-hydroxy-4(1H)-pyridone (Nutrition, poisonous plant, toxicity, Australia)

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Observations on the persistence and potential for beef production of pastures based on Trifolium semipilosum and Leucaena leucocephala in subtropical coastal Queensland

Tropical grasslands. v. 16 (1), March 1982. pp. 24-29.

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Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130); ANIMAL PRODUCTION (L100)

Jones, R.J.; Winter, W.H.

Serum thyroxine levels and liveweight gain of steers grazing Leucaena pastures (Toxicity)

Leucaena research reports. v. 3, July 1982. p. 2.



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Section Headings: ANIMAL NUTRITION (L500); MISCELLANEOUS ANIMAL  
DISORDERS (L841)

Jones, R.M.; Jones, R.J.

The effect of Leucaena leucocephala on liveweight gain, thyroid size and thyroxine levels of steers in south-eastern Queensland (Forage production, grazing, stocking rates, weights of cattle)

Australian journal of experimental agriculture and animal husbandry. v. 24 (124), Feb. 1984. pp. 4-9.

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Jones, R.M.

Survival of individual plants of Leucaena leucocephala in grazed stands  
Div. of Tropical Crops and Pastures, CSIRO, St. Lucia, Qld., Australia 4067.  
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Descriptors: Leucaena leucocephala; grazing; persistence

Jones, R.M.

Yield and persistence of the shrub legumes Codariocalyx gyroides and Leucaena leucocephala on the coastal lowlands of south-eastern Queensland  
Div. of Trop. Crops and Pastures, CSIRO, St. Lucia, Brisbane, Qld. 4067, Australia.

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Section Headings: FOREST MENSURATION AND DESCRIPTION (K250)

Kang, B.T.; Wilson, G.F.; Sipkens, L.

Alley cropping maize (Zea mays L.) and leucaena (Leucaena leucocephala Lam) in southern Nigeria

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Kapoor, M.L.

Need for genetic studies in Leucaena leucocephala

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 167-171.

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Section Headings: PLANT BREEDING (F200)

Kapoor, P.D. IJLAA; Puri, J.P.; Dvaraknath, P.K.

Effect of supplementation of Leucaena leucocephala on the rumen metabolism in buffaloes

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Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600)

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Descriptors: Lead-tree -- India -- Congresses; Leucaena -- India -- Congresses

Section Headings: PLANT PRODUCTION -- FIELD CROPS (120)

Kaul, R.N.; Sharma, K.K.

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Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 21-31.

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Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Keeler, R.F.

Teratogens in plants

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Descriptors: Congenital abnormalities; Cattle; Sheep; Swine; Reviews; Lupinus; Conium; Veratrum; Leucaena; Astragalus; Nicotiana; Datura; Sorghum; Senecio; Poisonous plants; Teratogens; Phytotoxins; congenital abnormalities; reviews

Keoghan, J.M.

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Proceedings of the Third International Conference on Goat Production and Disease.

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Descriptors: Caribbean; fodder; crops; Leucaena leucocephala; Stylosanthes hamata; Desmanthus virgatus; Desmodium spp.; Desmodium tortuosum; Codariocalyx gyroides; Acacia spp.; Albizia lebbek; Calliandra spp.; Cassia glandulosa; Haematoxylum campechianum; Prosopis chilensis; Sesbania spp.; Clitoria ternatea; Teramnus labialis; Centrosema pubescens; Macroptilium atropurpureum; Glycine wightii

Kessel, C. van; Roskoski, J.P.; Wood, T.; Montano, J.

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Dept. of Biochem., Wisconsin Univ., Madison, WI 53706, USA.

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Descriptors: Acacia pennatula; Nitrogen fixation; Albizia lebbek; Enterolobium cyclocarpum; Gliricidia sepium; Leucaena leucocephala; Inga jinicuil; Legumes

Keya, S.O.

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Dept. of Soil Scie., Nairobi Univ., Nairobi, Kenya.

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Descriptors: Conferences; More food from better technology; Phaseolus vulgaris; nitrogen fixation; Soyabeans; Peas; Vigna unguiculata; Cajanus cajan; Centrosema pubescens; Trifolium repens; Leucaena leucocephala; Medicago; Desmodium; Legumes

Khan, A.M.

Hawaiian plants as fodder and fuel (Leucaena leucocephala, Pakistan)

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Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); BIOMASS ENERGY SOURCES (P 120).

Khan, E.J.A.; Mark, W.H.

Some initial results of field trials conducted in establishing a pasture-seed industry in Cojedes State, Venezuela

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IRI Res. Inst., Venezuela.

Publ.: Boulder, Colorado, USA; Westview Press, 1983, pp. 780-783.

Descriptors: conferences; International Grassland Congress; Panicum maximum; Brachiaria humidicola; Brachiaria decumbens; plant nutrition; fertilizers; phosphorus; nitrogen; pests; Andropogon gayanus; Brachiaria brizantha; Setaria sphacelata var. sericea; Leucaena leucocephala; seed production

Khare, A.; Dubey, R.K.; Singh, M.M.

Kubabul (Leucaena leucocephala) Hawaiian giant as a papermaking raw material

Indian Pulp and Paper, 1983, 37, 6, pp. 5-8.

Sec. Jnl. Source: ABIPC 55, 1829, IPC.

Descriptors: Pulping materials; Leucaena leucocephala; Wood chemistry

Kirkpatrick, J.B.; Hassall, D.C.

Vegetation of the Sigatoka sand dunes, Fiji

Inst. of Natural Resources, South Pacific Univ., Laucala Bay, Suva, Fiji.

New Zealand Journal of Botany, 1981, 19, 3, pp. 285-297.

Descriptors: Fiji; Casuarina litorea; Leucaena leucocephala Panicum maximum; Pandanus spp.; Pennisetum polystachyon; Brachiaria reptans; Stachytarpheta urticifolia; Ipomoea brasiliensis; Spinifex hirsutus; plant communities

Kitamura, Y. JARJA; Abe, J.

Comparative response of five lines of Leucaena leucocephala to soil pH (Comparative forage value)

JARQ, Japan agricultural research quarterly. v. 16 (3), Nov. 1982. pp. 218-223.

Ibaraki: Tropical Agriculture Research Center, Ministry of Agriculture, Forestry and Fisheries.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); PLANT ECOLOGY (F300)

Kitamura, Y.; Abe, J.

Efficiency of N<sub>2</sub>-fixation by tropical pasture legumes

Trop. Agric. Res. Cent., Maesato, Ishigaki 907-01, Japan.

Journal of Japanese Society of Grassland Science, 1982, 2, 2, pp. 154-160.

Descriptors: Desmodium intortum; Leucaena leucocephala; Macroptilium atropurpureum; Neonotonia wightii; Centrosema pubescens; Lablab purpureus; Vigna unguiculata; Stizolobium hassjo; Crotalaria sessiliflora; nitrogen fixation; efficiency; legumes

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Tochigi, The Society.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Kitamura, Y.

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Trop. Agric. Res. Cent., Ishigaka, Okinawa 907-01, Japan.

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Descriptors: wheat; rotations; forage crops

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Descriptors: Leucaena leucocephala; Stylosanthes guianensis farming systems; maize; intercropping; West Africa

Kobayashi, T.; Zinno, Y.

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For. & For. Prod. Res. Inst., PO Box 16, Tsukuba Norinkenkyu-danchi, Ibaraki  
305, Japan.

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Descriptors: Colletotrichum truncatum; Nursery management; diseases;  
Philippines; Indonesia; Leucaena leucocephala; Albizia falcataria; Pterocarpus  
indicus; Leucaena glauca; Robinia pseudoacacia; seedlings; fungal diseases;  
symptom; Fungi; biology

Kormann, A.W.; Schlachter, M.; Lebas, F.; Jouglar, J.Y.; Berchiche, M.;  
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Fomunyan, R.T.; Schlotant, W.; Walter, A.; Lange, K.; Barge, M.T.; Masoero,  
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Journal of Applied Rabbit Research, 1984, 7, 1, pp. 25-37.

Descriptors: Conferences; rabbits; nutrition; Italy; Wheat straw; diets;  
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Research on Leucaena and other nitrogen-fixing trees at the Thailand  
Institute of Scientific and Technological Research (TISTR)

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Ottawa: The Centre, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100); SOIL BIOLOGY  
(J100)

Krishna Murthy, K.; Mune Gowda, M.K.

Effect of cutting and frequency regimes on the herbage yield of Leucaena  
Leucaena research reports. v. 3, July 1982. pp. 31-32.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Krishna Murthy, K.; Mune Gowda, M.K. (Gowda, M.K.M.).

Progress of research on ku-babul (Leucaena leucocephala [L.] de-Wit) in  
Karnataka

Director Res., UAS, Bangalore 560 065, India.

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Descriptors: Fodder; foliage; Leucaena leucocephala; Silviculture; India,  
Karnataka; Research

Krohn, T.J.

One-year results of species trial on Guam

For. Nurs. & Mgt. Sect., For. & Soils Resourc. Div., Guam

Tree Planters; Notes. 1981, 32, 2, pp. 30-34.

Descriptors: Provenance trials; Acacia confusa; Eucalyptus tereticornis;  
Eucalyptus brassiana; Eucalyptus camaldulensi; Micronesia; Species trials;

Eucalyptus grandis; Eucalyptus citriodora; Eucalyptus deglupta; Eucalyptus pellita; Eucalyptus tessellaris; Eucalyptus urophylla; Leucaena leucocephala; Melaleuca leucadendron; Serianthes kenahirae; Swietenia macrophylla

Ku, Y.C.; Lin, S.J.

Leucaena wood fibers for animal feeding (Ruminants)

Leucaena research reports. v. 3, July 1982. pp. 64.

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Section Headings: ANIMAL NUTRITION (L500)

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Ku, Y.C.; Pan, T.T.; Wang, K.T.

Semi-chemical pulping of Leucaena wood.

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Taipei, Chinese Forestry Association.

Section Headings: FOREST PRODUCTS -- PULP AND PAPER (K530)

Kudo, H.; Cheng, K.J.; Majak, W.; Hall, J.W.; Costerton, J.W.

Degradation of mimosine in rumen fluid from cattle and sheep in Canada

Research Station, Agriculture Canada, Lethbridge, Alberta, Canada T1J 4B1.

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Descriptors: Cattle; rumen fluid; mimosine; degradation; Canada; Sheep; Leucaena

Kumar, A.; Sharma, R.

Determination of viability of IPIL-IPIL (Leucaena Leucocephala (LAM.) de Wit) seed by tetrazolium test

Van vigyan. v. 20 (1/2), Jan./June 1982. pp. 26-29.

Dehra Dun: Society of Indian Foresters.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Kumar, A.

Effect of soil pH on the growth and yield of leguminous forage trees/bushes (Sesbania aegyptica, Sesbania grandiflora, Leucaena leucocephala)

Forage research. v. 9 (1), June 1983. pp. 1-6. ill.

Hissar: Indian Society of Forage Research.

Section Headings: SOIL CHEMISTRY AND PHYSICS (J200)

Kumar, S.

Construction of rural economy in drought prone areas through afforestation (India, growing Leucaena leucocephala)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 217-222.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
Section Headings: RURAL DEVELOPMENT (E550); FOREST MANAGEMENT (K200)

Kung, F.S.; Chang, T.Y.  
Fertilization effect on new varieties of Leucaena leucocephala  
Bulletin -- Taiwan Forestry Research Institute. July 1982. (370), July  
1982. 8 pp.  
Taipei: T'aiwan sheng lin yeh shih yen so.  
Section Headings: SOIL FERTILITY AND FERTILIZERS(J500); FORESTRY RELATED  
(K001)

Kuo, Y.L.; Chou, C.H.; Hu, T.W.  
Allelopathic potential Leucaena leucocephala (Mimosine content, inhibition  
of growth of other plants, phytotoxicity)  
Leucaena research reports. v. 3, July 1982. p. 65.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: MISCELLANEOUS PLANT DISORDERS (F841)

Kurar, C.K.; Gupta, P.N.; Rao, M.V.N.  
Effect of partial replacement of protein by kubabul (Leucaena leucocephala)  
leaves in the ration of growing crossbred calves  
The Indian journal of animal sciences. v. 54 (5), May 1984. pp. 420-424.  
New Delhi: Indian Council of Agricultural Research.  
Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)

Kushalapa, K.A.  
Leucaena leucocephala provenances in Philippines -- varietal mix-up galore  
(Mimosae)  
The Indian forester. v. 107 (10), Oct. 1981. pp. 635-637.  
Dehra Dun, S.K. Mitra.  
Section Headings: PLANT PRODUCTION -- GENERAL (F100); FORESTRY RELATED  
(K001)

Kushalapa, K.A.  
Kubabul in Philippines (Leucaena leucocephala, uses as fuel, forage and  
soil conservation, planting techniques)  
Leucaena leucocephala in India: proceedings of National Seminar,  
Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K.  
Mathur. pp. 148-151.  
(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Kushalapa, K.A.  
Leucaena leucocephala in Philippines  
Myforest. v. 17 (1), March 1981. pp. 9-12.  
Bangalore, India, Forest Department, Karnataka.  
Section Headings: FORESTRY PRODUCTION -- NATURAL REGENERATION (K110)

Lasmarias, V.B.; Pamplona, B.S.; Semana, J.A.  
Kappa number, permanganate number and klason lignin of giant ipil-ipil  
sulfate pulps. I. The relationship between Kappa number and permanganate  
number (Leucaena leucocephala)

NSTA technology journal -- National Science Development Board. v. 8 (3), July/Sept. 1983. pp. 59-65. ill.

Manila: The Board.

Section Headings: FOREST PRODUCTS -- PULP AND PAPER (K530)

Laxamana, N.B.; Mule, E.I.

Charcoal briquetting and activation studies on *Leucaena* at different ages and varieties (Ipil-ipil woods)

NSTA technology journal -- National Science Development Board. v. 8 (1), Jan./March 1983. pp. 40-49. ill.

Manila: The Board.

Section Headings: FOREST PRODUCTS -- WOOD (K510); BIOMASS ENERGY SOURCES (P120)

Lazier, J.R.

Effect of cutting height and frequency on dry matter production of *Codariocalyx gyroides* (syn. *Desmodium gyroides*) in Belize, central America Cent. Farm, Cayo District, Belize.

Tropical Grasslands, 1981, 15, 1, pp. 10-16.

Descriptors: *Desmodium gyroides*; cutting; frequency; height persistence; seed; production; *Leucaena leucocephala*

Lee, B.P.K.; Yang, Y.F.

*Leucaena* seed as a feed ingredient for broiler chicks

*Leucaena* research reports. v. 3, July 1982. p. 66.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: ANIMAL NUTRITION (L500)

Lee, B.P.K.

Nutrient composition of *Leucaena* in Tawian

Taiwan Livestock Res. Inst., Tainan, Taiwan.

*Leucaena* Research Reports, 1981, 2, p. 52.

Descriptors: *Leucaena leucocephala*; chemical composition

Lee, P.K.; Jiang, S.S.; Yang, Y.F.; Lee, M.C.

Effect of feeding *Leucaena* seed on growth, sexual maturity, egg production, feed efficiency, egg quality and hatchability of Leghorn chicks.

Hsu ch'an yen chiu = Journal of the Taiwan livestock research. v. 16 (1), June 1983. pp. 63-72.

Tainan: Taiwan Sheng Hsu ch'an shih yen so.

Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600); FOOD COMPOSITION -- POULTRY (Q503)

Lee, P.K.; Yang, Y.F.; Lee, M.C.

Effect of feeding *Leucaena leucocephala* seed on the performance of growing--fattening pigs.

Journal -- Agricultural Association of China. June 1982. (118), June 1982. pp. 62-71.

Taipei, Taiwan, China, The Association.

Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)



- Lee, P.K.; Yany, Y.F.  
 Leucaena seed as a feed ingredient for broiler chicks.  
 Hsu ch'an yen chiu = Journal of the Taiwan livestock research. v. 14  
 (2), Dec. 1981. pp. 21-31.  
 Tainan: Taiwan Sheng Hsu ch'an shih yen so.  
 Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)
- Lenne, J.M.; Torres, G.C.  
 Bacterial pod blight of Leucaena (caused by Pseudomonas fluorescens)  
 Leucaena research reports. v. 3, July 1982. p. 14.  
 Taipei, Taiwan: Council for Agricultural Planning and Development.  
 Section Headings: PLANT DISEASES -- BACTERIAL (F832)
- Lenne, J.M.; Torres, G.C.; Victoria, J.I.  
 Bacterial pod rot of Leucaena leucocephala caused by Pseudomonas fluorescens  
 biotype 2  
 Proceedings of the fifth International Conference on Plant Pathogenic  
 Bacteria, August 16-23, 1981 at CIAT, Cali, Colombia/technical editor J.  
 Carlos Lozano; production editor Paul Gwin. pp. 39-44.  
 (Cali, Colombia): Centro Internacional de Agricultural Tropical, 1982.  
 Section Headings: PLANT DISEASE -- BACTERIAL (F832)
- Lenne, J.M.  
 Reaction of Desmodium species and other tropical pasture legumes to the  
 root-knot nematode Meloidogyne javanica  
 Centro Internac. de Agric. Trop. (CIAT), apartado Aereo 6713, Cali,  
 Colombia.  
 Tropical Grasslands, 1981, 15, 1, pp. 17-20.  
 Descriptors: Meloidogyne javanica; Desmodium gyroides; Desmodium  
ovalifolium; Colombia; pathogenicity; Desmodium; Calopogonium mucunoides;  
Centrosema; Macroptilium; susceptibility; resistance; Calopogonoum mucunoides
- Lenne, J.M.; Vargas de Alvarez, A.  
 Seedling rot of Leucaena caused by Fusarium sp  
 Leucaena research reports. v. 3, July 1982. p. 14.  
 Taipei, Taiwan: Council for Agricultural Planning and Development.  
 Section Headings: PLANT DISEASES -- FUNGAL (F831)
- Lesniak, A.P.; Liu, E.H.  
 Biochemical purification of the galactomannan in Leucaena seeds  
 Dept. of Biol., South Carolina Univ., Columbia, SC 29208, USA.  
 Leucaena Research Reports, 1981, 2, pp. 75-76.  
 Descriptors: Leucaena leucocephala; seeds; carbohydrates
- Lesniak, A.P.; Liu, E.H.  
 Biological properties of Leucaena leucocephala seed galactomannans  
 Dept. of Biol., South Carolina Univ., Columbia, SC 29208, USA.  
 Leucaena Research Reports, 1981, 2, pp. 77-78.  
 Descriptors: Leucaena leucocephala; seeds; carbohydrates; Cyamopsis  
tetragonoloba; Cassia occidentalis; haemagglutinins metabolism; Leucaena
- Lim, G.  
 Rhizobia and nitrogen-fixing trees in Singapore

Leucaena research in the Asian-Pacific region.

Department of Botany, National University of Singapore, Singapore, Malaysia.  
Publ.: Ottawa, Ontario, Canada: International Development Research Centre,  
1983, pp. 33-37.

Descriptors: Legumes; trees; Malaysia, Nodulation; Conferences; Leucaena  
Research in the Asian-Pacific Region; Conferences; Leucaena research in the  
Asian-Pacific region; Roots; root nodules; Leguminosae; Rhizobium; Singapore

Lin, K.C.

Resistance of ten tree species to sulfur dioxide

Taiwan For. Res. Inst., Taipei, Taiwan.

Bulletin, Taiwan Forestry Research Institute, 1981, No. 34, 1 + 14 pp.

Descriptors: Air pollution; fumes; SO<sub>2</sub>; resistance; Arenga engleri;  
Cinnamomum camphora; Garcinia spicata; Fraxinus griffithii; Codiaeum  
variegatum; Broussonetia papyrifera; Melia azedarach; Paulownia taiwaniana;  
Euphorbia pulcherrima; Leucaena leucocephala

Lopez, M.; Sistachs, E.; Funes, F.; Ruiz, T.; Pereiro, M.; Monzote, M.

Agronomy and utilization of tropical legumes

Instituto de Ciencia Animal, San Jose de las Lajas, Havana, Cuba.

Cuban Journal of Agricultural Science, 1981, 15, 2, pp. 199-213.

Descriptors: Neonotonia wightii; mixtures; milk production; establishment;  
Leucaena leucocephala; Rhizobium; inoculation; Desmodium; Centrosema; Cuba;  
Legumes; grazing; Digitaria decumbens; Bothriochloa; Dichanthium, oversowing

Lopez, M.; Taboada, J.

The effect of inoculation and calcium application on the yield and  
nodulation of Leucaena leucocephala cv. Peru growing in a grayish brown soil

Instituto de Ciencia Animal, San Jose de las Lajas, Havana, Cuba.

Cuban Journal of Agricultural Science, 1983, 17, 3, pp. 319-324.

Descriptors: Leucaena leucocephala; plant nutrition; calcium; Rhizobium;  
inoculation; nodulation; fertilizers; responses

Lopez, M.; Martinez, J.; Paretas, J.J.

Nodulation in tropical legumes

Estacion Experimental de Pastos y Forrajes "Indio Hatuey", Matanzas, Cuba.

Pastos y Forrajes, 1983, 6, 2, pp. 185-194.

Descriptors: Neonotonia wightii; nodulation; Macroptilium atropurpureum;  
Centrosema pubescens; Leucaena leucocephala; Stylosanthes guianensis

Lowry, J.B. JSFAA; Tangendjaja, M.; Tangendjaja, B.

Autolysis of mimosine to 3-hydroxy-4-1(H)pyridone in green tissues of  
Leucaena leucocephala (Tree of Central American origin with a pantropical  
distribution)

Journal of the science of food and agriculture. v. 34 (6), June 1983. pp.  
529-533.

Oxford: Blackwell Scientific Publications.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); FORESTRY  
RELATED (K001)

Lowry, J.B.

Leucaena research at BPT

Balai Penelitian Ternak, Bogor, Indonesia.

Leucaena Research Reports, 1981, 2, pp. 31-32.  
Descriptors: Leucaena leucocephala; chemical composition; mimosine;  
toxicity; removal

Lowry, J.B.  
Detoxification of Leucaena by enzymic or microbial processes (Livestock  
feed)  
Leucaena research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre. pp. 49-54.  
ill.

Ottawa: The Centre, 1983.  
Section Headings: FEED CONTAMINATION AND TOXICOLOGY (R 200)

Lowry, J.B.; Cook, N.; Wilson, R.D.  
Flavonol glycoside distribution in cultivars and hybrids of Leucaena  
leucocephala (Mimosaceae)  
Journal of the science of food and agriculture. v. 35 (4), April 1984.  
pp. 401-407.

Oxford, England: Blackwell Scientific Publications.  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Lowry, J.B.; Evans, A.J.; Tangendjaja, B.  
Observations on Leucaena leaf meal production in Indonesia (Java)  
Leucaena research reports. v. 3, July 1982. p. 43.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: FEED PROCESSING AND STORAGE (R100)

Lozano, J.C. (Editor)  
Bacterial pod rot of Leucaena leucocephala caused by Pseudomonas fluorescens  
biotype 2  
Proceedings of the Fifth International Conference on Plant Pathogenic  
Bacteria.  
CIAT, Cali, Colombia.  
Publ.: Cali, Colombia; Centro Internacional de Agricultura Tropical, 1982,  
pp. 39-44.  
Descriptors: Pseudomonas fluorescens; Leucaena leucocephala associated with  
insect damage

Lu, C.M.; Hu, T.W.; Shih, W.C.  
Study on the growth of leucaena -- growth and biomass production of 3-year  
old spacing trial plantation at Chia-Lin (Taiwan).  
Bulletin -- Taiwan Forestry Research Institute. Jan. 1984. (405), Jan.  
1984. 18 pp.  
Taipei, China: T'aiwan sheng lin yeh shih yen so.  
Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120);  
FOREST MENSURATION AND DESCRIPTION (K250)

Lulandala, L.L.L.  
Seed viability, germination and pretreatment of Leucaena leucocephala  
Div. of Forestry, Dar es Salaam Univ., Morogoro, Tanzania.  
Leucaena Research Reports, 1981, 2, p. 59.  
Descriptors: Leucaena leucocephala; seed storage; seed germination; seed  
treatment

Lyon, C.K.; Kohleer, G.D.

Leaf protein concentrates from Leucaena leaves

W. Regional Res. Cent., SEA, USDA, Berkeley, CA 94710, USA.

Leucaena Research Reports, 1981, 2, p. 81.

Descriptors: Leucaena leucocephala; leaves; protein concentrates

MacLaurin, A.R. GSPCB; Bransby, D.I.; Tainton, N.M.

The influence of cutting height, planting density, harvesting frequency and fertilization on edible dry matter yield of Leucaena leucocephala (Lam.) de Wit (subtropical pasture legumes in South Africa)

Proceedings -- Grassland Society of Southern Africa. v. 17, 1982. pp. 61-64. ill.

Pretoria: The Society.

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130)

MacLaurin, A.R.; Tainton, N.M.; Bransby, D.I.

Leucaena leucocephala (Lam.) de Wit as a forage plant -- a review (Tropical legume, South Africa)

Proceedings -- Grassland Society of Southern Africa. v. 16, 1981. pp. 63-69.

Pretoria, The Society.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Magda, R.R.

Community-based research -- a new development scheme for the masses (Philippine Forest Research Institute Project, Ipil-ibil plantation for fuelwood)

Canopy. v. 7 (7), July 1981. pp. 5-6. ill.

Laguna, Forest Research Institute.

Section Headings: FARM ORGANIZATION AND MANAGEMENT (E200); FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120); BIOMASS ENERGY SOURCES (P120)

Maghembe, J.A.; Redhead, J.F.

Agroforestry: preliminary results of intercropping Acacia, Eucalyptus, and Leucaena with maize and beans (Zea mays, Phaseolus, Tanzania)

Intercropping: proceedings of the Second Symposium on Intercropping in Semi-Arid Areas, Morogoro, Tanzania, August 4-7, 1980/editors, C.L. Keswani and B.J. Ndunguru. pp. 43-49.

Ottawa: International Development Research Centre, c1982.

Section Headings: SOIL CULTIVATION (J700); PLANT PRODUCTION -- FIELD CROPS (F120); FORESTRY RELATED (K001)

Mahatab, S.N.; Ali, A.; Asaduzzaman, A.H.M.

Nutritive value of ipil ipil in goat

Animal Nutrition Section, Livestock Research Inst., Mohakhali, Dhaka-12, Bangladesh.

Livestock Adviser, 1984, 9, 6, pp. 29-33.

Descriptors: Leucaena leucocephala; nutritive value; goats

Maheshwari, S.R.

Low quality forages to the rescue of cattle during famine

Dept. of Anim. Husbandry, Jaipur, Rajasthan, India.

Livestock Adviser, 1981, 6, 4, pp. 43-45.

Descriptors: Oryza sativa; Saccharum officinarum; Sesbania spp.; Leucaena spp.; Acacia spp.; Mahua spp.; Ficus spp.; Bambusa spp.; Ziziphus spp.; Melia azadirachta; fodder; drought

Mahtab, S.N.; Ali, A.; Asaduzzaman, A.H.M.

Nutritional potential of ipil ipil leaves for goats

Livestock Res. Inst. Dhaka, Bangladesh.

Adab News, 1984, 11, 4, pp. 37-38.

Descriptors: Goats; intake; legumes; Leucaena leucocephala; digestibility; nutritive value; goats; Leaves

Malik, M.H.; Sheikh, M.I.

Planting of trees in saline and waterlogged areas. Part I. Test planting at Azakhel

Pakistan For. Inst., Peshawar, Pakistan.

Pakistan Journal of forestry, 1983, 33, 1, pp. 1-17.

Descriptors: Gleditsia triacanthos; Prosopis juliflora; Albizia procera; Casuarina equisetifolia; Tamarix aphyll; Eucalyptus microtheca; Parkinsonia aculeata; Leucaena leucocephala; Acacia cyanophylla; Afforestation; arid regions; saline sites; Species trials; Pakistan; Soil type; saline soils; Forestry practices; Pakistan; Soil types (chemical)

Maluf, A.M.; Martins, P.S.; Maluf, W.R.

Evaluation of Leucaena populations for tolerance to aluminum

Avalacao de populacoes de leucena para tolerancia ao aluminio

Instituto de Botanica, 01.000 Sao Paulo, Sp, Brazil.

Pesquisa Agropecuaria Brasileira, 1984, 19, 7, pp. 859-866.

Descriptors: Leucaena leucocephala; aluminium toxicity

Mangrulkar, V.D.

Introduction of kubabul (Leucaena Leucocephala) as forage crop under drought prone area programme in Maharashtra (India, shrub or small tree crop)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 202-204.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Manidool, C.

Leucaena leaf meal and forage in Thailand (Cattle, sheep)

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 65-68.

Ottawa: The Centre, 1983.

Section Headings: ANIMAL NUTRITION (L500)

Manjunath, A.; Bagyaraj, D.J.; Gowda, H.S.G.

Dual inoculation with VA (vesicular-arbusculae) mycorrhiza and Rhizobium is beneficial to Leucaena (leucocephala, Glomus fasciculatum, fodder tree legumes)

Plant and soil. v. 78 (3), 1984. pp. 445-448.

- The Hague: Martinus Nijhoff.  
 Section Headings: PLANT NUTRITION (F500); PLANT ECOLOGY (F300)
- Marbella, J.L.; Pineda, C.I.; Bulay, R.N.; Castillo, A.C.; Moog, F.A.  
 Utilization of rice straw and Ipil-Ipil in cattle fattening at Magalang,  
 Pampanga  
 The Philippine journal of animal industry. v. 36 (1/4), 1981.  
 pp. 81-87.  
 Manila, Bureau of Animal Industry of the Philippines.  
 Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)
- Maruzzo, M.M.; America, W.M.  
 Wood anatomy of three strains of giant ipil-ipil (Leucaena leucocephala  
 (Lam.) De Wit)  
 FORPRIDECOM, NSDB, College, Laguna 3720, Philippines.  
 Forpride Diges, 1981, 10, 1/2, pp. 16-27.  
 Descriptors: Leucaena leucocephala; wood anatomy
- McSweeney, C.S.; Bamualim, A.; Murray, R.M.  
 Ruminal motility in sheep intoxicated with 2,3-dihydropyridine  
 Div. Trop. Anim. Sci., CSIRO Davies Lab., Townsville, Queensland 4814,  
 Australia.  
 Australian Veterinary Journal, 1984, 61, 8, pp. 271-272.  
 Descriptors: Poisoning; Goitrogens; Poisonous plants; Leucaena  
leucocephala; Pyridines; toxicity; rumen motility; sheep
- Megarrity, R.G.; Jones, R.J.  
 Toxicity of Leucaena leucocephala in ruminants: the effect of supplemental  
 thyroxine on goats fed on a sole diet of Leucaena (Australia)  
 Australian journal of agricultural research. v. 34 (6), 1983.  
 pp. 791-798. ill.  
 Melbourne: Commonwealth Scientific and Industrial Research Organization.  
 Section Headings: VETERINARY PHARMACOLOGY AND IMMUNE THERAPEUTIC AGE (L810)
- Melendez, F.; Rivera, G.  
 The effect of density of sowing and distance between rows of Leucaena  
leucocephala on the production and quality of forage in the humid tropics  
 CSAT, Cardenas, Tabasco, Mexico.  
 Tropical Animal Production, 1981, 6, 4, p. 365.  
 Descriptors: Leucaena leucocephala; seed germination; sowing rates;  
 spacing; chemical composition; proteins; leaves; proportion
- Mendoza, E.M.T.; Ilag, L.L.  
 Biocidal properties of mimosine: a review (Leucaena leucocephala)  
 Kalikasan: the Philippine journal of biology. v. 11 (2/3), 1982.  
 pp. 235-244.  
 Laguna: University of the Philippines. Natural Science Research Center.  
 Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); VETERINARY  
 PHARMACOLOGY AND IMMUNE THERAPEUTIC AGE (L810)
- Mendoza, R.C.; Escano, L.R.; Javier, E.Q.  
 Corn/Leucaena intercropping trials

Inst. of Pl. Breeding, Los Banos, Laguna, Philippines.  
Leucaena Research Reports, 1981, 2, p. 42.  
Descriptors: Leucaena leucocephala; mixtures; grasses; Zea mays; legumes;  
fertilizers; nitrogen; phosphorus; potassium; maize; intercropping; NPK

Mendoza, R.C.; Javier, E.Q.; Villareal, R.L.  
Determination of selection indices and screening of Leucaena leucocephala  
(Lam.) et Wit for tolerance to acid soils (Feed legume, genotypes)  
the Philippine journal of crop science. v. 7 (3), Dec. 1981. pp. 145-153.  
(S.I.): Crop Science Soc. of Philippines & Philippine Council for Agric.  
and Resource Research.  
Section Headings: PLANT BREEDING (F200); SOIL CHEMISTRY AND PHYSICS (J200)

Mendoza, R.C.  
Highlights of research into the use of Leucaena for forage in the  
Philippines (Ipil-ipil)  
Extension bulletin -- ASPAC Food & Fertilizer Technology Center. Dec. 1983.  
(198), Dec. 1983. pp. 1-21.  
Taipei: The Center.  
Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Mendoza, R.C. (et al.) Ahmad, I.; Chen, C.P.; Abdullah, H.M.  
The use of Leucaena for livestock feed in Asia  
Extension Bulletin, Food and Fertilizer Technology Center, Taiwan, 1983, No.  
198, i + 35 pp.  
Descriptors: Conferences; Recent advances in pasture research and  
development in Southeast Asia; Leucaena leucocephala; Fodder; foliage;  
Philippines; Malaysia

Menendez, J.  
Wild Leguminosae of Cuba. 3. Central region and the Ciego and Camaguey  
provinces  
Leguminosas silvestres de Cuba. 3. Region central y provincia de Ciego y  
Camaguey.  
Ciencia y Tecnica en la Agricultura, Pastos y Forrajes, 198, 5, 2, pp. 141-  
157.  
Descriptors: Forage legumes; genetic resources; Cuba

Menendez, J.  
Wild legumes of Cuba. III. Central region and Ciego and Camaguey provinces  
Leguminosas silvestres de Cuba. III. Region central y provincias de Ciego  
y Camaguey.  
Estacion Experimental de Pastos y Forrajes "Indio Hatuey", Perico, Matanzas,  
Cuba.  
Pastos y Forrajes, 1982, 5, 2, pp. 141-157.  
Descriptors: Alysicarpus; Calopogonium; Centrosema; Desmodium; Galactia;  
Indigofera; Leucaena; Lysiloma; Macroptilium; Pueraria; Rhynchosia;  
Stylosanthes; Zornia; Cuba

Menendez, J.  
Wild legumes in Cuba. IV. Western region and Isla dela Juventud  
Leguminosas silvestres de Cuba. IV. Region occidental e Isla de la  
Juventud

Estacion, Experimental de Pastos y Forrajes "Indio Hatuey", Perico, Matanzas, Cuba.

Pastos y Forrajes, 1982, 5, 3, pp. 279-295.

Descriptors: Alysicarpus vaginalis; Calopogonium coeruleum; Centrosema pubescens; Desmodium; Indigofera mucronata; Leucaena leucocephala; Macroptilium atropurpureum; Pueraria phaseoloides; Cuba

Menendez, J.; Delgado, D.; Tang, M.; Quincoses, G.

Zone evaluation of legumes on ferrallitic quartzite soil on the Isla de la Juventud

Evaluacion zonal de leguminosas en suelo ferralitico cuarcitico de Isla de la Juventud

Estacion Experimental de Pastos y Forrajes "Indio Hatuey", Perico, Matanzas, Cuba.

Pastos y Forrajes, 1984, 7, 1, pp. 47-58.

Descriptors: Stylosanthes guianensis; Cuba; Teramnus labialis; Medicago sativa; Macroptilium atropurpureum; Neonotonia wightii; Centrosema pubescens; Leucaena leucocephala; Alysicarpus vaginalis; Macrotyloma axillare

Methew, T.K.

Kerala (Leucaena leucocephala, silviculture, yield, India, localities where introduced)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 61-63.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Metzner, J.

Innovations in agriculture incorporating traditional production methods: the case of Amarasi (Timor)

Deutsche Gesellschaft fur Technische Zusammenarbeit (GTZ), Postfach 5180, 6236 Eschborn, German Federal Republic.

Applied Geography and Development, 1981, 17, pp. 91-107.

Descriptors: traditional farming; adoption of innovations; Indonesia (Lesser Sunda Islands)

Metzner, J.; Jones, P.H.

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German Agency for Technical Cooperation, Postfach 5180, 6236 Eschborn, German Federal Republic.

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Descriptors: Farm forestry; models; shifting cultivation; Indonesia; Nusa Tenggara; Timur; Cropping systems; shifting cultivation; Indonesia; Agroforestry; Indonesi; Leucaena leucocephala

Meulen, U. ter.; Gunther, K.D.; El-Harith, E.A.

Metabolic effects of mimosine on tyrosine in the rat (Toxicity of Leucaena leucocephala meal as feedstuff for cattle)



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Journal of animal physiology and animal nutrition. v. 46 (5), 1981.  
pp. 264-269.

Hamburg, Parey.

Section Headings: MISCELLANEOUS ANIMAL DISORDERS (L841)

Meyreles, L.; Pound, B.; Preston, T.R.

The use of *Leucaena leucocephala* or sugarcane tops as sources of forage  
in cattle diets based on molasses/urea, supplemented with chicken litter  
and/or wheat bran

Tropical animal production. v. 7 (2), 1982. pp. 92-97. ill.

Santo Domingo: Consejo Estatal del Azúcar, División de Ganadería y  
Boyada.

Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)

Moawad, H.; Bohlool, B.B.

Competition among the *Rhizobium* spp. for nodulation of *Leucaena leucocephala*  
in two tropical soils

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Section Headings: SOIL BIOLOGY (J100)

Mohan, M.; Srivastava, G.P.

Studies on the extractability and chemical composition of leaf proteins from  
certain trees

Dept. Crop Physiology and Biochemistry, Chandra Shekhar Azad.

Journal of Food Science and Technology, India, 1981, 18, 2, 2, 2, pp. 48-50.

Descriptors: leaf protein; composition; India

Moog, F.A.

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farms in the Philippines

*Leucaena* research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre. pp. 69-72.  
ill.

Ottawa: The Centre, 1983.

Section Headings: ANIMAL NUTRITION (L500)

Moog, F.A.; Castillo, A.C.; Tibayan, R.G.; Tombocon, N.P.

Carabeef production on native and native/*Ipil-Ipil* pastures at different  
stocking rates (Carabaos, grazing, Philippines)

The Philippine journal of animal industry. v. 36 (1/4), 1981.  
pp. 24-33.

Manila, Bureau of Animal Industry of the Philippines.

Section Headings: ANIMAL NUTRITION (L500); PLANT PRODUCTION -- PASTURES AND  
RANGE (F130)

Moran, J.B. AJAEA; Satoto, K.B.; Dawson, J.E.

The utilization of rice straw fed to Zebu cattle and swamp buffalo as  
influenced by alkali treatment and *Leucaena* supplementation (Digestibility,  
feed composition, water metabolism, South East Asia)

Australian journal of agricultural research. v. 34 (1), 1983.  
pp. 73-84.

Melbourne: Commonwealth Scientific and Industrial Research Organization.  
Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300); ANIMAL  
PHYSIOLOGY AND BIOCHEMISTRY (L600)

Morand-Fehr, P. Bourbouze, A.; Simiane, M. de (Editors)  
The influence of ipil-ipil "Leucaena leucocephala (Lam) de wit leaves  
feeding on the reproductive performance of goats in the tropics  
Nutrition and systems of goat feeding. Volume 2.: Nutrition et systems  
d'alimentation de la chevre. Volume 2.  
Los Banos, Philippines.  
Publ.: Tours, France; ITOVIC-INRA, 1981, pp. 623-634.  
Descriptors: Leucaena leucocephala; liveweight gain; intake goats; kid  
production; legumes

Moreno Quiroz  
Efficiency of Rhizobium stock and the effect of P, Mo, Co and liming on  
nodulation and biomass production of Leucaena leucocephala (Guaje) in acid  
soils of Huimanguillo, Tabasco, Mexico.  
Eficiencia de cepas de Rhizobium y efecto de P, Mo, Fe, Co y encalado en  
la nodulacion y produccion de biomasa de Leucaena leucocephala (Guaje) en  
suelos acidos de Huimanguillo,  
xiv, 127 leaves: ill.; 27 cm.  
Chapingo, Mexico Colegio de Postgraduados, Institucion de Ensenanza e  
Investigacion en Ciencias Agricolas 1981.  
Escuela Nacional de Agricultura. (Tesis 1981; no. 22)  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); PLANT  
NUTRITION (F500)

Morris, J.R.  
Effects of mechanical harvesting on the quality of small fruits and grapes  
Fruit, nut, and vegetable harvesting mechanization: proceedings,  
International Symposium on Fruit... Mechanization, Oct. 5-12, 1983, Volcani  
Center, Bet Dagan, Israel/Institute of Agricultural Eng. pp. 332-348.  
St. Joseph, Mich. : American Society of Agricultural Engineers, c1984.  
Descriptors: small fruits; grapes; mechanical harvesting; postharvest  
treatment;  
Section Headings: PLANT PRODUCTION -- HORTICULTURAL CROPS (F110); FOOD  
COMPOSITION--HORTICULTURAL CROP PRODUCTS (Q505)

Motooka, P.; Nagai, G.; Ching, L.  
Cut-surface application of glyphosate to control tropical brush species  
Abstracts, 1983 Meeting of the Weed Science Society of America  
Hawaii Univ., Manoa, Hawaii, USA, 1983, p. 96.  
Descriptors: conferences; 1983 meeting of the Weed Science Society of  
America; glyphosate; usage; woody weeds; application; methods; Psidium  
guajava; Psidium cattleianum var. lucidum; Leucaena leucocephala; Eugenia  
jambos; Schinus terebinthifolius

Mott, J.J.; Cook, S.J.; Williams, R.J.  
Influence of short duration, high temperature seed treatment on the  
germination of some tropical and temperate legumes

Div. of Trop. Crops and Pastures, CSIRO, St. Lucia, Qld. 4067, Australia.  
Tropical Grasslands, 1982, 16, 2, pp. 50-55.

Descriptors: Leucaena leucocephala; Medicago scutellata; Stylosanthes hamata; Trifolium subterraneum; Neonotonia wightii; Macroptilium atropurpureum; Ornithopus compressus; Stylosanthes guianensis; Centrosema pubescens; Medicago truncatula; Medicago polymorpha; Vigna parkeri; Lupinus cosentini; seed germination; temperature

Murakoshi, I.; Ikegami, F.; Hinuma, Y.; Hanma, Y.

Purification and characterization of L-mimosine synthase from Leucaena leucocephala (Seedlings)

Phytochemistry. v. 23 (9), 1984. pp. 1905-1908. ill.

Oxford, England: Pergamon Press.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Muthana, K.D.; Jain, B.L.

Use of saline water for raising tree seedlings

CAZRI Regional Sta., Pali, Rajasthan, India.

Indian Farming, 1984, 34, 5, pp. 37-38, 40.

Descriptors: Prosopis juliflora; Cassia siamea; Leucaena leucocephala; Dichrostachys glomerata; Colophospermum mopan; Acacia aneura; Salt tolerance; Eucalyptus; Nursery management; irrigation; India, Rajasthan

Nakasuga, T.; Baba, S.; Kamiyama, M.

Studies on ginkookan (Leucaena latisiliqua (L.) gillis) community. II. Effects of different fertilization and soil conditions on early growth in seedling.

Gakujutsu hokoku = Science bulletin of the College of Agriculture, University of the Ryukyus. Dec. 1983. (30), Dec. 1983. pp. 605-614. ill.

Nishihara, Okinawa: The College.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120); PLANT NUTRITION (F500); FORESTRY RELATED (K001)

Nagami, R.; Venketeswaran, S.

Morphological responses of cultured hypocotyl and cotyledonary segments of Leucaena

Dept. Biology, Univ. Houston, Houston, TX 77004, USA.

In Vitro, 1983, 19, 3, II, p. 265.

Descriptors: Leucaena leucocephala; tissue culture; Leucaena diversifolia

Nair, P.K.R.

Multiple land-use and agroforestry

Better crops for food. Ciba Foundation symposium 97 [edited by Nugent, J.; O'Connor, M.].

International Council for Res. in Agroforestry, Nairobi, Kenya.

Publ.: London, UK; Pitman Books Ltd., 1983, pp. 101-111.

Descriptors: Conferences; Better Crops for food; Leucaena; utilization; Prosopis; Land use; Agroforestry

Nair, P.K.R.

The re-marriage of crops and trees

ICRAF, Nairobi, Kenya.

International Agricultural Development, 1983, 3, 4, pp. 5-8.

Descriptors: Agroforestry; Organizations; Kenya

Narkhede, P.L.; Umrani, N.K.; Ghugare, R.V.  
Organic recycling of ku-babul for winter sorghum cultivated on drylands  
All-India Coordinated Res. Project for Dryland Agric., Solapur 413 002,  
Maharashtra, India.  
Indian Journal of Agricultural Sciences, 1984, 54, 5, pp. 444-446.  
Descriptors: Sorghum; green manures; Leucaena leucocephala; nutrition; as  
green manures; nitrogen; absorption; Phosphorus;

Naseeven, R.; Harrison, D.; Preston, T.R.  
Studies on the toxicity of mimosine in diets based on Leucaena forage  
FMVZ, Yucatan Univ., Merida, Mexico.  
Tropical Animal Production, 1981, 6, 4, pp. 366-367.  
Descriptors: Leucaena leucocephala; intake; toxicity; goats sheep; cattle;  
tropical crops; poisoning; mimosine

National: promising forage and tree crop for the tropics  
Leucaena Research Council, Board on Science and Technology for International  
Development, USA  
Publ.: Washington, DC, USA; National Academy Press, 1984, Ed. 2, x + 100  
pp.  
Descriptors: Leucaena; books; Tropics; Leucaena diversifolia; Leucaena  
esculenta; Leucaena macrophylla; Leucaena pulverulenta; Leucaena leucocephala;  
Leucaena shannoni; Leucaena retusa; Leucaena lanceolata; Leucaena collinsii;  
Leucaena trichodes; Browse; Fodder

National Economic and Development Authority  
Low cost training for livelihood, Philippines  
Philippine Development, 1982, 9, 20, pp. 48-55.  
Descriptors: distance teaching; self instruction; Philippines

Neelay, V.R. IJFOD; Sah, A.K.  
Leucaena leucocephala -- trials -- "A multipurpose plant for large scale  
afforestation in social forestry" (India)  
Indian journal of forestry. v. 5 (4), Dec. 1982. pp. 263-265.  
Dehra Dun: G.S. Gahlot.  
Section Headings: FOREST MANAGEMENT (K200)

Negi, J.S.; Chawla, J.S.  
Pulping studies of fast growing young trees, Leucaena leucocephala  
(India)  
Indian pulp and paper. v. 38 (2), Aug./Sept. 1983. pp. 17-20.  
Calcutta: R.N. Chatterjee.  
Section Headings: FOREST PRODUCTS -- PULP AND PAPER (K530)

Neumaier, T.  
Site-adapted agriculture also in development aid  
Deutsche Gesellschaft fur Technische Zusammenarbeit GmbH, 6236 Eschborn,  
German Federal Republic.  
DLG-Mitteilungen, 1983, 98, 1, pp. 30-31.  
Descriptors: Rwanda; farming systems

Ng, F.S.P.; Haji Mokhtar, Z.B.; Abdul Azia, A.A.G.B.  
Leucaena leucocephala as a tall cover crop for sawlog plantations

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. p. 113-118. ill.

Ottawa: The Centre, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Leucaena research in the Asian-Pacific region  
Nitrogen Fixing Tree Association and International Development Research Centre, Canada

Publ.: Ottawa, Ontario, Canada, 1983, 192 pp.

Descriptors: Conferences; Leucaena research in the Asian-Pacific region

Nishimura, N.; Abe, J.; Shoji, S.; Saito, Y.

The vegetation and distribution of leguminous plants in the semi-natural grasslands in the Sakishima islands

National Inst. of Agro-Envir. Sci., Yatabe, Ibaraki 305, Japan.

Journal of Japanese Society of Grassland Science, 1984, 3, 1, pp. 29-39.

Descriptors: Leucaena leucocephala; grasslands; Japan; Christia obcordata; Desmodium heterocarpum; Desmodium triflorum; Desmodium heterophyllum; Miscanthus; Zoysia; Chrysopogon; Paspalum; flora

Norani Ahmad; Ng, F.S.P.

Growth of Leucaena leucocephala in relation to soil pH, nutrient levels and Rhizobium concentration

The Malaysian forester. v. 44 (4), Oct 1981. pp. 516-423. ill.

Kuala Lumpur, Malaysia, Forest Dept.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Oakes, A.J.; Foy, C.D.

Acid soil tolerance of Leucaena species in greenhouse trials

Plant Genetics and Germplasm Institute, USDA-ARS, Beltsville, MD 20705, USA.

Journal of Plant Nutrition, 1984, 7, 12, pp. 1759-1774.

Descriptors: Leucaena leucocephala; aluminium; toxicity; soil types; acid soils; Soil types (chemical)

Oakes, A.J.

Leucaena bibliography

(1983 ed.)

xv, 90 leaves; 22 x 28 cm.

Beltsville, Md. Germplasm Resources Laboratory, U.S. Department of Agriculture 1983.

Descriptors: Leucaena -- Bibliography; Leguminosae;

Section Headings: PLANT PRODUCTION -- GENERAL (F100); FORESTRY RELATED (K001)

Oakes, A.J.

Leucaena bibliography

171 leaves; 22 x 28 cm.

Beltsville, Md. Economic Botany Laboratory, U.S. Dept. of Agriculture 1982.

Descriptors: *Leucaena* -- Bibliography  
Section Headings: PLANT PRODUCTION -- GENERAL (F100); FORESTRY RELATED (K001)

Oakes, A.J.

Scarification and germination of seeds of *Leucaena leucocephala* (Lam.) De Wit

Tropical agriculture. v. 61 (2), April 1984. pp. 125-127, 158.

Guildford: Butterworth Scientific.

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130); PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Oliveira, E.T. de

Extension and technical assistance for rice cultivation

Difusao e assistencia tecnica na cultrua do arroz.

Anais, simposio sobre a cultura do arroz de sequeiro.

Fatores afetando a produtividade [edited by Ferreira, M.E.; Yamada, T.; Malavolta, E.].

Centro Nacional de Pesquisa de Arroz e Feijao, 74.000 Goiania, GO, Brazil.

Publ.: Piracicaba, Brazil; Institutos de Potassa 1983, pp. 63-69.

Descriptors: Rice; fertilizers; phosphorus; varieties; Brazil; *Phaseolus vulgaris*; green manures; intercropping; maize; Conferences; Cultivation of upland rice; Varieties; Brazil; Fertilizers; phosphorus

Olvera, E.; West, S.H.

Aspects of germination of *leucaena*

Tropical agriculture. Jan. 1985. v. 62 (1) pp. 68-72. ill.

Guildford: Butterworth Scientific.

Descriptors: *Leucaena leucocephala*; seed germination; hard seeds; scarification;

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); FORESTRY RELATED (K001)

Olvera, E.; West, S.H.; Blue, W.G.

Aspects of germination of *Leucaena*

*Leucaena* research reports. v. 3, July 1982. pp. 86-87.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Olvera, E.; Blue, W.G.; West, S.H.

Effect of acid subsoil layers on the establishment of *leucaena* (*Leucaena leucocephala* (Lam.) de Wit).

Dept. of Agron. and Soil Sci., Florida Univ., Gainesville, FL 32601, USA.

*Leucaena* Research Reports, 1981, 2, p. 83.

Descriptors: *Leucaena leucocephala*; soils; pH; roots; depth

Olvera, E.; Blue, W.G.

Establishment of *Leucaena leucocephala* (Lam.) de Wit in acid soils

Tropical agriculture. Jan. 1985. v. 62 (1) pp. 73-76.

Guildford: Butterworth Scientific.

Descriptors: *Leucaena leucocephala*; plant establishment; acid soils; liming;

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); FORESTRY RELATED (K001); SOIL FERTILITY AND FERTILIZERS (J500)

Olvera, E.; West, S.H.; Blue, W.G.  
Establishment of Leucaena leucocephala in acid soils (Ultisols and Oxisols)

Leucaena research reports. v. 3, July 1982. pp. 84-85.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Olvera, E.; West, S.H.; Blue, W.G.  
Greenhouse studies on establishment of Leucaena leucocephala ((Lam.) de Wit) in acid soils (Ultisols, Oxisols)

Leucaena research reports. v. 3, July 1982. pp. 88-90.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Osman, A.M.  
Edibility of Leucaena (Cows)  
Leucaena research reports. v. 3, July 1982. pp. 49-50.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: ANIMAL NUTRITION (L500)

Osman, A.M.  
The effects of cutting height on the dry matter production of Leucaena  
Sch. of Agric., Mauritius Univ., Reduit, Mauritius.  
Leucaena Research Reports, 1981, 2, pp. 37-38.  
Descriptors: Leucaena leucocephala; cutting height

Osman, A.M.  
Effects of cutting interval on the relative dry matter production of four cultivars of Leucaena  
Sch. of Agric., Mauritius Univ., Reduit, Mauritius.  
Leucaena Research Reports, 1981, 2, pp. 33-34.  
Descriptors: Leucaena leucocephala; cutting frequency

Osman, A.M.  
Leaf: stem ratio in Leucaena  
Sch. of Agric., Mauritius Univ., Reduit, Mauritius.  
Leucaena Research Reports, 1981, 2, pp. 35-36.  
Descriptors: Leucaena leucocephala; leaves; stems; ratio; cutting frequency

Palit, S.  
West Bengal. I. (Leucaena leucocephala, localities where introduced into India, nursery and planting techniques)  
Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 120-134.  
(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Panday, K.  
Nitrogen-fixing fodder trees in Nepal

Leucaena research in the Asian-Pacific region.  
Federal Inst. of Tech., Zurwih, Switzerland.  
Publ.: Ottawa, Ontario, Canada, 1983, pp. 89-90.  
Descriptors: Conferences; Leucaena research in the Asian-Pacific region;  
Leucaena leucocephala; Nepal; fodder trees; nitrogen fixation; Trees

Parera, V.

Leucaena for erosion control and green manure in Sikka (Indonesia)  
Leucaena research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre. p. 169-172.  
ill.

Ottawa: The Centre, 1983.

Section Headings: SOIL EROSION AND RECLAMATION (J800)

Parera, V.

Giant lamtoro in the land of the trees (Leucaena, plantation in relation  
to rice cultivation, use of leaves as green manure fertilizer, replacement  
of slash and burn system in Indonesia)

Leucaena research reports. v. 3, July 1982. p. 44.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); SOIL FETILITY AND  
FERTILIZERS (J500)

Patel, V.J.

A new strategy for high density agro-forestry

Publ.: Bombay, India; Centre for Monitoring Indian Economy 1984, 61 pp.

Descriptors: Eucalyptus; fuel plantations; farm woodland; India, Gujarat;  
Leucaena

Paterson, R.T.; Quiroga, L.; Sauma, G.; Samur, C.

Dry season growth of Zebu-Criollo steers with limited access to Leucaena  
Tropical animal production. v. 8 (2), 1983. pp. 138-142.

Santo Domingo: Consejo Estatal del Azucar, Division de Ganaderia y  
Boyada.

Section Headings: ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600); ANIMAL  
NUTRITION (L500)

Paterson, R.T.; Horrell, C.R.

Forage legumes in Santa Cruz, Bolivia

Centro de Investigacion Agricola Tropical, Santa Cruz, Bolivia.

Tropical Animal Production, 1981, 6, 1, pp. 44-53.

Descriptors: Bolivia, legumes; evaluation; Glycine wightii; Panicum maximum  
var. trichoglume; Lablab purpureus; Paspalum notatum; Leucaena leucocephala;  
Pueraria phaseoloides; Macrotyloma axillare; Stylosanthes guianensis; beef  
production

Pathak, P.S.; Patil, B.D.; Gupta, S.K.; Roy, R.D.

Forage yield comparison in Leucaena leucocephala cultivars

Indian Grassland and Fodder Res. Inst., Jhansi 284 003, U.P., India.

Leucaena Research Reports, 1981, 2, p. 26.

Descriptors: Leucaena leucocephala; yield; seasonal variation; varieties;  
India; Uttar Pradesh



Pathak, P.S.; Patil, B.D.; Gupta, S.K.  
Leaf characteristics in Leucaena (leucocephala and Leucaena diversifolia,  
structure)

Leucaena research reports. v. 3, July 1982. p. 36.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT STRUCTURE AND CYTOLOGY (F400)

Pathak, P.S.; Patil, B.D.; Gupta, S.K.; Deb Roy, R.  
Leucaena cultivation improves soil fertility (Leucaena leucocephala)  
Leucaena research reports. v. 3, July 1982. p. 37.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); SOIL FERTILITY  
AND FERTILIZERS (J500)

Pathak, P.S.; Patil, B.D.  
Leucaena research at the Indian Grassland and Fodder Research Institute  
(IGFRI)  
Leucaena research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre. pp. 83-88.  
Ottawa: The Centre, 1983.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Pathak, P.S.; Patil, B.D.  
Nodulation and seedling growth in Leucaena leucocephala cultivars  
Indian Grassland and Fodder Res. Inst., Jhansi 284 003. U.P., India.  
Leucaena Research Reports, 1981, 2, p. 25.  
Descriptors: Leucaena leucocephala; Rhizobium; nodulation; seedling  
emergence; seedling; weight; height

Pathak, P.S.; Gupta, S.K.; Deb Roy, R.  
Production of aerial biomass in Leucaena leucocephala (Lam.) De Wit.  
(Increment).  
The Indian forester. v. 107 (7), July 1981. pp. 416-419.  
Dehra Dun, S.K. Mitra.  
Section Headings: FOREST MENSURATION AND DESCRIPTION (K250)

Pathak, P.S.; Patil, B.D.  
Production performance of kubabul (Leucaena leucocephala) (Lam) De Wit  
special reference to its giant varieties  
Leucaena leucocephala in India: proceedings of National Seminar,  
Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K.  
Mathur. pp. 196-201.  
(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Pathak, P.S.; Rai, M.P.; Debroy, R.  
Seed weight affecting early seedling growth attributes in Leucaena  
leucocephala (Lam.) De Wit (India)  
Van vigyan. v. 19 (3), Sept. 1981. pp. 97-101.  
Dehra Dun, India, Society of Indian Foresters.  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Patil, B.D.; Pathak, P.S.

Leucaena leucocephala (Lam.) deWit for India -- prospects and problems  
Indian Grassland & Fodder Res. Inst., Jhansi, UP, India.

Myforest, 1984, 20, 1, pp. 13-18.

Descriptors: Leucaena leucocephala; Choice of species; India

Patil, B.D.; Gupta, V.K.; Kumar, A.; Joshi, H.K.

Reaction of the parents and hybrids of Leucaena leucocephala against  
gummosis disease (identified as Fusarium sp. and Botrydiplodia sp.,  
mathematical models)

Leucaena research reports. v. 3, July 1982. pp. 33-35.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT DISEASES -- FUNGAL (F831); MATHEMATICS AND  
STATISTICS (X100)

Patil, J.

Leucaena (leucocephala, forest tree grown for forage, fuel or fertilizer  
(through symbiotic nitrogen fixation), cultivation, India)

Leucaena leucocephala in India: proceedings of National Seminar,  
Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K.  
Mathur. pp. 11-14.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Peleton, H.

Maximum utilization of forages in the feeding of cattle in Mauritius.  
Production development

Utilisation maximale de fourrages dans l'alimentation des bovins a l'Ile  
Maurice: vers une rationalisation du developpement de l'elevage

Mission francaise de Cooperation et de Developpement, Mauritius.

Tropical Veterinary Journal, 1983, 1, 1, pp. 66-75.

Descriptors: Forage; cattle; feeding; Mauritius; Tropic; Cows; Feeds; feed  
formulation;

Peralta, A.; Hughes-Jones, M.

Effect of restricted molasses on feed intake, feed conversion and weight  
gains of young bulls

CEDIPCA, CEAGANA, Santo Domingo, Dominican Republic.

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PLANT PRODUCTION -- FIELD CROPS (F120)

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PLANT PRODUCTION -- PASTURES AND RANGE (F130)

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spacings)

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PLANT PRODUCTION -- FIELD CROPS (F120)

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Section Headings: DISTRIBUTION AND MARKETING (E700); FOREST PRODUCTS --  
WOOD (K510)

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*Macroptilium*; *Centrosema*; *Glycine*; *Stylosanthes*; *Leucaena*; *Galactia*;  
*Calopogonium*; *Cajanus*; beef production; Brazil; pastures; cattle; feeding;  
tropics

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Leucaena leucocephala

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legumes; grasses; milk yield; feeding; feeds

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feeding; grasslands; composition

Rouysungnern, S.

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Descriptors: conferences; Thailand Forestry Conference; soil water;  
infiltration; effect of ground cover; soil physics; porosity; compaction; soil  
chemistry; organic compounds; nitrogen; S; P; K; forest influences; soils  
Thailand; plantations; Leucaena leucocephala; Albizia procera; Parkia  
javanica; Tectona grandis

Ruan, R.; Pino, J.F.

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CSAT, Cardenas, Tabasco, Mexico.

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Descriptors: Leucaena leucocephala; Cynodon plectostachyus; milk  
production; grazing; grasses; legumes

Rukanda, N.A.K.; Lwoga, A.B.

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Salerno, A.R.; Vetterle, C.P.

Summer perennial legumes for the lower Itajai Valley

Leguminosas perenes de estacao quente para o baixo Vale de Itajai

Estacao Experimental de Itajai. EMPASC, Itajai, SC, Brazil.

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Descriptors: Leucaena leucocephala; mixtures; grasses; Cajanus cajan; Neonotonia wightii; Macroptilium atropurpureum; Pueraria javanica; Centrosema pubescens; Pennisetum purpureum; legumes

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Water relation of six tree species. I. Parameters measured by the  
pressure-chamber technique (Gmelina arborea, Wrightia laniti, Gliricidia sepium, Albizia procera, Leucaena leucocephala, Samanea saman, drought  
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pp. 285-294.

Laguna: University of the Philippines. Natural Science Research Center.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); FORESTRY  
RELATED (K001)

Sanchez, N.P.

Leucaena leucocephala (Lam) de Wit) a promising legume for  
Colombia

Leucaena leucocephala (Lam) de Wit) una leguminosa promisoriosa para  
Colombia

Asociado a la Nitrogen Fixing Tree (NFTA), Bogota, Colombia.

Arroz, 1983, 32, 323, pp. 18-24.

Descriptors: Leucaena leucocephala; Colombia

Santiago, C.B.; Banes-Aldaba, M.; Songalia, E.T.

Effect of artificial diets on growth and survival of milkfish fry in fresh  
water

Aquaculture Dep., Southeast Asian Fisheries Development Center (SEAFDEC),  
Binangonan Research Station, Biaangonan, Rizal, Philippines.

Aquaculture, 1983, 34, 3/4, pp. 247-252.

Descriptors: Chanos; growth; diets; Philippines; survival; Nutrition; fish;  
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- Sanzonowicz, C.; Couto, W.  
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Leucaena research reports. v. 3, July 1982. p. 4.  
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Section Headings: SOIL FERTILITY AND FERTILIZERS (J500); SOIL BIOLOGY (J100)
- Sanzonowicz, C.; Couto, W.  
Effect of calcium, sulphur and other nutrients on dry matter yield and nodulation of Leucaena leucocephala in a "cerrado" soil (Tropical legumes).  
Efeito de calcio, enxofre e outros nutrientes no rendimento e nodulacao da Leucaena leucocephala em um solo de cerrado  
Pesquisa agropecuaria brasileira. v. 16 (6), 1981. pp. 789-794.  
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Section Headings: PLANT NUTRITION (F500)
- Sarode, R.B.; Waghmare, B.S.; Patil, P.M.; Pawar, A.S.; Kamale, V.J.  
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- Saucedo, G.; Alvarez, F.J.; Arriaga, A.; Jimenez, N.  
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Santo Domingo, Dominican Republic, Consejo Estatal del Azucar, Division de Ganaderia y Boyada.  
Section Headings: ANIMAL NUTRITION (L500)
- Saxena, V.S.  
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Leucaena leucocephala in India: proceedings of National Seminar,  
Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 99-101.  
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Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)
- Schulke, E.; Szyszka, M.; Meulen, J.; El-Harith, E.A.  
Studies on the effect of water leaching on the mimosine content of Leucaena leucocephala from Zaire.  
Untersuchungen zum einfluss der Wasserung auf den Minsingehalt von Leucaena Blattmaterial aus Zaire  
Der Tropenlandwirt. v. 83, April 1982. pp. 43-48. ill.  
Witzenhausen, W. Ger.: Deutsches Institut fur Tropische und Subtropische, Landwirtschaft.  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)
- Seiffert, N.F.  
Low performance of Leucaena Peru type on central-Brasil Oxisols (as a supplementary protein source to Brachiaria decumbens pasture)

Leucaena research reports. v. 3, July 1982. p. 7-8.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Seiffert, N.F.

Practical method for Leucaena seed scarification using NaOH (Sodium hydroxide, Leucaena leucocephala, Leucaena pulverulenta, Leucaena diversifolia induction of germination)

Leucaena research reports. v. 3, July 1982. pp. 5-6.

Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Seiffert, N.F.; Miranda, C.H.B.

Recommendations for inoculation and pelleting of tropical forage legume seeds

Recomendacoes para inoculacao e peletizacao de sementes de leguminosas forrageiras tropicais

Centro Nacional de Pesquisa de Gado de Corte, 79.100 Campo Grande, MS. Brazil.

Comunicado Tecnico, Centro Nacional de Pesquisa de Gado de Corte, 1983, No. 17, 9 pp.

Descriptors: Calopogonium mucunoides; seeds; pelleting; Centrosema pubescens; Macroptilium atropurpureum; Cajanus cajan; Leucaena leucocephala; Neonotonia wightii; Rhizobium; inoculants

Seiffert, N.F.

Scarification methods for tropical forage legume seeds

Metodos de scarificacao de sementes de leguminosas forrageiras tropicais

Centro Nacional de Pesquisa de Gado de Corte, 79.100 Campo Grande, MS, Brazil.

Comunicado Tecnico, Centro Nacional de Pesquisa de Gado de Corte, 1982, No. 13, 6 pp.

Descriptors: Seed treatments; scarification; Centrosema; Leucaena; Macroptilium; Neonotonia; Stylosanthes; Calopogonium

Semana, J.A.; Lasmarias, V.B.; Ballon, C.H.

Hardboard from Peru giant ipil-ipil

Chem. Prod. & Dendro-Energy R&D Cent., FPRDI, NSTA, College, Laguna, Philippines.

FPRDI Journal, 1983, 12, 3/4, pp. 61-66, 19.

Descriptors: Fibreboards; manufacture; strength; wood moisture; raw materials; Leucaena leucocephala; Philippines

Senaratne, R.; Seresinhe, P.S.J.W.

Effect of seed treatment on the germination of ipil-ipil (Leucaena leucocephala (L.) Benth.) seeds

Dep. of Agron., Ruhuna Univ. Colle., Mapalana, Kamburupitiya, Sri Lanka.

Bietrage zur Tropischen Landwirtschaft und Veterinarmedizin, 1984, 22, 1, pp. 69-72.

Descriptors: Leucaena leucocephala; seeds; treatments; hard seeds; seed germination; germination; seed treatment

Serrano, E.P.; Ilag, L.L.; Mendoza, E.M.T.  
Biochemical mechanisms of mimosine toxicity of Sclerotium rolfsii Sacc.  
(Mimosa, Leucaena)  
Australian journal of biological sciences. v. 36 (4), 1983. pp. 445-454.  
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Organization.

Section Headings: PLANT DISEASES -- FUNGAL (F831)

Shah, G.L.; Rangayya, S.  
On the structure of the pericarp of Leucaena leucocephala (Lam) De Wit  
Feddes Repertorium. v. 94 (9/10), 1983. pp. 649-654. plates.  
Berlin, E. Germany: Akademie.

Section Headings: PLANT STRUCTURE AND CYTOLOGY (F400)

Sharma, Y.K.; Mahajan, S.; Bholra, P.P.  
A note on production of high alpha cellulose pulp from Leucaena leucocephala  
The Indian forester. June 1984. v. 110 (6) pp. 582-585.  
Dehra Dun: N.K. Mathur.

Descriptors: Leucaena leucocephala; pulps; dissolving

Section Headings: FOREST PRODUCTS -- PULP AND PAPER (K530)

Sheikh, M.I.; Khan, S.M.  
Effect of frequency of watering on the survival and growth of fodder trees  
Pakistan For. Inst., Peshawar, Pakistan.

Pakistan Journal of Forestry, 1983, 33, 3, pp. 123-125.

Descriptors: Leucaena leucocephala; Ceratonia siliqua; Tecomella undulata;  
Fodder; foliage; Pakistan; Robinia pseudoacacia; Nursery management;  
irrigation; responses; establishment; irrigation; Ceratonia siliqua

Sheikh, M.I.

Research on nitrogen-fixing trees in Pakistan (Leucaena leucocephala,  
legumes)

Leucaena research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre. pp. 137-140.  
Ottawa: The Centre, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100); SOIL BIOLOGY  
(J100)

Shih, W.C.; Hu, T.W.

The production of forage from Leucaena leucocephala.

Bulletin -- Taiwan Forestry Research Institute. July 1982. (368), July  
1982. 8 pp.

Taipei: T'aiwan sheng lin yeh shih yen so.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); FORESTRY RELATED  
(K001)

Shih, W. C.; Hu, T.W.

The yields of forage of Leucaena leucocephala in Taiwan

Taiwan Forestry Res. Inst., Taipei, Taiwan.

Leucaena Research Reports, 1981, 2, pp. 55-56.

Descriptors: Leucaena leucocephala; varieties; Taiwan; plant density

- Shinde, D.B.; Relwani, L.L.  
 Effect of different Rhizobium cultures of the nodulation yield and nitrogen content of kubabul (Leucaena leucocephala) cultivars  
Leucaena leucocephala in India: proceedings of National Seminar, Uruḷikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 225-227.  
 (New Delhi?): Ministry of Agriculture, Govt. of India, 1983.  
 Section Headings: SOIL BIOLOGY (J100); FORESTRY RELATED (K001)
- Shiroma, S.; Hongo, F.  
 Performances of layers as affected by Leucaena leucocephala (Lam.) de Wit feeding (chicks)  
 Gakujutsu hokoku = Science bulletin of the College of Agriculture, University of the Ryukyus. Dec. 1981. (28), Dec. 1981. pp. 215-225.  
 Nishihara, Okinawa, The College.  
 Section Headings: ANIMAL NUTRITION (L500); ANIMAL PRODUCTION (L100)
- Shiveshwar, R.M.; Rao, S.H.R.; Pai, N.M.; Meshramkar, P.M.; Deb, U.K.  
Kubabul (Leucaena leucocephala): new raw material for pulp and paper manufacture  
 Indian Pulp and Paper, 1984, 38, 4, pp. 5-13.  
 Descriptors: Leucaena leucocephala; Pulping materials; Leucaena; India; Pulping; sulphate pulping
- Shukla, N.K.  
 A preliminary note on strength properties of Leucaena leucocephala from Lalkua, Tarai Bhabar Forest Division (U.P.) (Uttar Pradesh, India)  
 The Indian forester. v. 108 (3), March 1982. pp. 226-229.  
 Dehra Dun, N.K. Mathur.  
 Section Headings: FOREST PRODUCTS -- WOOD (K510); PLANT STRUCTURE AND CYTOLOGY (F400)
- Siddaramaiah, A.L.; Desai, S.A.  
 Occurrence of new collar rot disease of kababula from India [Sclerotium rolfsii on Leucaena leucocephala].  
 Coll. Agric., Dharwad, India.  
 Current Research, 1981, 10, No. 8, pp. 132-133.  
 Descriptors: Sclerotium rolfsii; Leucaena leucocephala; India; Karnataka; diseases of trees
- Siddiqui, K.M.; Khan, S.  
 Growth characteristics of different varieties of ipil ipil (Leucaena leucocephala) under irrigated conditions in Pakistan  
 Pakistan For. Inst., Peshawar, Pakistan.  
 Pakistan Journal of Forestry, 1983, 33, 1, pp. 19-24.  
 Descriptors: Leucaena leucocephala; Provenance trials; Pakistan; Irrigation; soils; Leucaena leucocephala; irrigation; responses; Leucaena leucocephala; varieties; Pakistan
- Singh, L.N.; Katoch, D.C.; Dogra, K.K.  
 Effect of legume introduction on forage yield and quality of natural grassland



Dep. of Pl. Breeding and Genetics, Himachal Pradesh Krishi Vidyalaya, Palampur, H.P., India.

Forage Research, 1981, 7, 1, pp. 71-76.

Descriptors: Lotus uliginosus; Lotus corniculatus; Medicago sativa; Trifolium pratense; Trifolium repens; Trifolium subterraneum; Macrotyloma axillare; Stylosanthes hamata; Stylosanthes guianensis; Centrosema pubescens; Lablab purpureus; Desmodium intortum; Desmodium uncinatum; Leucaena leucocephala; Cajanus cajan; Macroptilium atropurpureum; Stizolobium deeringianum; grassland improvement; hill grasslands

Singh, P.; Fasih, M.; Prasad, G.

Insects feeding on kubabul, Leucaena leucocephala (Lam.) De Wit in India (Pest resistance and buildup)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 172-178.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: PESTS OF PLANTS -- INSECTS (F821); FORESTRY RELATED (K001)

Singh, R.

Tamil Nadu. II. (Leucaena leucocephala, nursery and planting techniques. India)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 108-113.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Singh, S.

Gummosis and canker in Leucaena leucocephala (Fusarium sp. identified as causal organism)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 179-182.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: PLANT DISEASES -- FUNGAL (F831); FORESTRY RELATED (K001)

Singh, S. IFORA; Khan, S.N.; Misra, B.M.

Gummosis brown spot and seedling mortality in Su-babul. I. disease incidence and pathology of the host (Leucaena leucocephala, India)

The Indian forester. v. 109 (4), Feb. 1983. pp. 185-192. plates.

Dehra Dun: N.K. Mathur.

Section Headings: PLANT DISEASES -- FUNGAL (F831); FORESTRY RELATED (K001)

Sivaprasad, P.; Hegde, S.V.; Rai, P.V.

Effect of Rhizobium and mycorrhiza inoculation on growth of Leucaena

Dep. Microbiol., Univ. Agric. Sci., Bangalore, India.

Leucaena Research Reports, 1983, 4, p. 42.

Descriptors: Leucaena leucocephala; Glomus fasciculatum; mycorrhizas; growth; nodulation

Smith, A.J.; Gunn, R.G. (Editors): Intensive animal production in developing countries  
The use of tree crops and their by-products for intensive animal production  
Dep. of Anim. Sci., Univ. of Agric., Serdang, Selangor, Malaysia.  
Occasional Publication, British Society of Animal Production, 1981, pp. 151-184.

Descriptors: Leucaena leucocephala; Sesbania grandiflora; Gliricidia maculata; Acacia spp.; Musa spp.; Artocarpus heterophyllus; fodder

Smith, E.S.C.

The interrelationships between shade types and cocoa pest and disease problems in Papua New Guinea

Proceedings, 7th International Cocoa Research Conference.

Lowlands Agricultural Experimental Station, Keravat, Papua New Guinea.

Publ.: Lagos, Nigeria; Cocoa Producers' Alliance, 1981, pp. 37-43.

Descriptors: conferences; International Cocoa Research Conference; cocoa; shade; responses; coconuts; Leucaena leucocephala; utilization; shade plants; intercropping; cultural methods; Papua New Guinea

Smolenski, S.J.; Kinghorn, A.D.

Toxic constituents of legume forage plants

Dep. Pharmacognosy Pharmacol., Univ. Med. Center, Chicago, Illinois 60612, USA.

Economic Botany, 1981, 35, 3, pp. 321-355.

Descriptors: poisonous plants; leguminosae; toxicity

Soffes, A.R.

Meloidogyne, aluminum and Rhizobium relationships in Leucaena germplasm selection

Univ. Florida, Gainesville, USA.

Dissertation Abstracts International B (Sciences and Engineering). 1985, 45, 7, 1975B.

Descriptors: Leucaena; Meloidogyne; soil pH; Rhizobium; toxic substances; aluminium

Somasegaren, P.; Reyes, V.G.; Hoben, H.J.

The influence of high temperatures on the growth and survival of Rhizobium spp. in peat inoculants during preparation, storage, and distribution

Dep. of Agron. and Soil Sci., Hawaii Univ., Honolulu, HI 96822, USA.

Canadian Journal of Microbiology, 1984, 30, 1, pp. 23-30.

Descriptors: Rhizobium; storage; temperature; distribution; Macrotyloma; inoculants; Leucaena; Rhizobium spp.; carriers; Inoculant carriers; peat Rhizobium; Bacterial; specific taxa

South, W.T.

Persistence of a labeled Rhizobium in greenhouse-grown Leucaena leucocephala  
Leucaena research reports. v. 3, July 1982. pp. 91-92.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: SOIL BIOLOGY (J100)

Stockwell, T.

Legumes, grasses and cattle in northern Queensland

Dep. of Primary Production, Katherine, Northern Territory, Australia.  
N.T. Rural News, 1983, 9, 3, pp. 9-11.

Descriptors: Stylosanthes gracilis; grassland improvement; Cenchrus ciliaris; grasslands; Australia; Setaria; Brachiaria decumbens; Leucaena leucocephala; Bothriochloa pertusa; land reclamation; eroded land

Sujan Singh; Khan, S.N.; Misra, B.M.

Gummosis, brown spot and seedling mortality in ku-babul. 2. Epidemiology and control of the disease

For. Res. Inst. & Coll., Dehra Dun, UP, India.

Indian Forester, 1983, 109, 11, pp. 810-821.

Descriptors: Fusarium semitectum; Leucaena leucocephala; Fungal diseases; control; Fusarium; ecology; biology; infection; India; Fungicides; Hg compounds; diseases; control; epidemiology; Emisan; seed treatment; Methoxyethyl-mercury chloride

Sumberg, J.E.

Note on estimating the foliage yield of two tropical browse species  
Tropical agriculture. Jan. 1985. v. 62 (1) pp. 15-16.

Guildford: Butterworth Scientific.

Descriptors: Leucaena leucocephala; Gliricidia sepium; foliage; yields; browse plants; linear models; regression analysis;

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130); ANIMAL NUTRITION (L500)

Sumberg, J.E. WARVA

Leuca-fence: living fence for sheep using Leucaena leucocephala (West Africa)

World animal review. 1983. (47), 1983. p. 49. ill.

Rome: FAO.

Section Headings: STRUCTURES AND STRUCTURAL EQUIPMENT (N100)

Swift, J.F.

Intercropping of two Leucaena spp. with sweetpotato: yield, growth rate and biomass (Leucaena leucocephala, Leucaena diversifolia, Ipomoea batatas)  
Leucaena research reports. v. 3, July 1982. pp. 52-53.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); BIOMASS ENERGY SOURCES (P120)

Szyszka, M.; Meulen, U. ter (Ter Meulen, U.)

Acceptable daily intake of mimosine in farm animals in relation to the feeding of Leucaena leucocephala to animals

Der "acceptable daily intake" für Mimosin bei landwirtschaftlichen Nutztieren und seine Bedeutung für die Einsetzbarkeit von Leucaena leucocephala in der Tierernährung

Inst. tierphysiol., Univ., Oskar-Kellner-Weg 6, D-3400 Göttingen-Weende, German Federal Republic.

Deutsche Tierärztliche Wochenschrift, 1984, 91, 7/8, pp. 260-262.

Descriptors: leguminosae; fowl; rabbit; cattle; goat; sheep amino acids; toxicity; mimosine; safety; poisonous plants; Leucaena leucocephala; alkaloids; domestic animals; safety; livestock; composition; alkaloids; chemical composition;

Szyszka, M.; Potikanond, N.; Meulen, U. ter (Ter Meulen, U)  
Leucaena leucocephala in cattle feeding. Acceptable daily intake of  
mimosine

Leucaena leucocephala in der Rinderfütterung-der "acceptable daily intake"  
für Mimosin bei Rindern.

Zeitschrift für Tierphysiologie, Tierernährung und Futtermittelkunde, 1984,  
52, 4/5, pp. 248-254.

Descriptors: Leguminosae; Toxicity; Leucaena; Poisonous plants

Szyszka, M.; Cheva-Isarakul, B.; Meulen, U. ter (Ter Meulen, U.)

Mimosine tolerance of goats from Thailand

Die Mimosinverträglichkeit von thailändischen Ziegen.

Inst. Tierphysiol., Univ., Oskar Kellner Weg 6, D-3400 Göttingen-Weende,  
German Federal Republic.

Zeitschrift für Tierphysiologie, Tierernährung und Futtermittelkunde, 1984,  
52, 4/5, pp. 244-248.

Descriptors: Leguminosae; Amino acids; Leucaena; goat; mimosine tolerance;  
Poisonous plants; Leucaena leucocephala; Goats; toxicity; Thailand; Mimosine

Tai, K.Y.; Kiang, T.; Kurt, H.K.

Promotion of giant Leucaena in eastern and southern Taiwan (Forest trees)

Leucaena research in the Asian-Pacific region: proceedings of a workshop  
held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree  
Association and the International Development Research Centre. pp. 145-148.

Ottawa: The Centre, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Tan, I.K.P.; Broughton, W.J.

Rhizobia in tropical legumes -- XIII. Biochemical basis of acid and alkali  
reactions

Department of Genetics and Cellular Biology, University of Malaya, Kuala  
Lumpur, Malaysia.

Soil Biology & Biochemistry, 1981, 13, 5, pp. 389-393.

Descriptors: bacteria (specified taxa); Rhizobium spp.; culture media;  
acidification; alkalization

Tan, I.K.P.; Broughton, W.J.

Rhizobia in tropical legumes. XIV. Ion uptake differences between fast-  
and slow-growing strains

Department of Genetics and Cellular Biology, University of Malaya, Kuala  
Lumpur, Malaysia.

Soil Biology & Biochemistry, 1982, 14, 3, pp. 295-299.

Descriptors: Bacteria; specific taxa, Rhizobium; nutrient; uptake

Taneja, P.N.

Haryana (Leucaena leucocephala, silvicultural techniques, India, nursery  
and planting techniques)

Leucaena leucocephala in India: proceedings of National Seminar,  
Uruṭikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K.  
Mathur. pp. 52-54.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Tang, J.L.; Ma, T.P.

The effect of plantation population density on wood properties and quality of wood-based composition board from *Leucaena* in Taiwan  
*Leucaena* research reports. v. 3, July 1982. pp. 68-69.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: FOREST PRODUCTS -- WOOD (K510)

Tang, J.L.; Ma, T.P.; Chang, T.H.

Study on whole wood utilization of introduced fast-growing *Leucaena*. 1. Wood utilization of young tree -- effect of population density on the wood and composition board properties.

Bulletin -- Taiwan Forest Research Institute. July 1982. (373), July 1982. 11 pp. ill.

Taipei: T'aiwan sheng lin yeh shih yen so.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120); FOREST PRODUCTS -- WOOD (K510)

Tang, J.L.; Ma, T.P.

Study on whole wood utilization of introduced fast-growing *Leucaena*. 1. Wood utilization of young tree. C. Properties of face-laminated and edge-banded particleboard affected by temperature and humidity

Bulletin -- Taiwan Forestry Research Institute. Nov. 1983. (399), Nov. 1983. 10 p. ill.

Taipei, China: T'aiwan sheng lin yeh shih yen so.

Section Headings: FOREST PRODUCTS -- COMPOSITE AND RECONSTITUTED WOOD (K520)

Tang, M.; Tamayo, E.; Castro, R.M.

Determination of strains of *Rhizobium* effective for 4 *Leucaena leucocephala* cv

Determinacion de cepas de *Rhizobium* eficientes en 4 cvs de *Leucaena leucocephala*

Estacion Experimental de Pastos y Forrajes "indio Hatuey", Perico, Matanzas, Cuba.

Pastos y Forrajes, 1983, 6, 1, pp. 31-45.

Descriptors: *Leucaena leucocephala*; *Rhizobium*; nodulation

Tang, M.; Tamayo, E.V.; Marquez, B.

Study of the action of seven strains of *Rhizobium* on four legumes

Estudio de la accion de siete cepas de *Rhizobium* sobre cuatro leguminosas

Estacion Experimental de pastos y Forrajes "Indio Hatuey", Perico, Matanzas, Cuba.

Pastos y Forrajes, 1982, 5, 2, pp. 159-170.

Descriptors: *Centrosema pubescens*; *Stylosanthes guianensis*; *Teramnus labialis*; *Leucaena leucocephala*; *Rhizobium*; inoculation; nodulation; chemical composition; nitrogen

Tangendjaja, B.; Wills, R.B.H.

Analysis of mimosine and 3-hydroxy-4(1H)-pyridone in plasma by high-performance liquid chromatography [from *Leucaena leucocephala*].

Journal of Chromatography, 1983, 265, 1, pp. 143-144.

Descriptors: alkaloids; *Leucaena*

Tangendjaja, B.  
Chemistry and biochemistry of mimosine in Leucaena leucocephala in relation to ruminant feed

Dissertation Abstracts International, B, 1984, 45, 6, p. 1721.

Descriptors: Sheep; Goat; Rumen flora; Leguminosae; Amino acids; Detoxification; Thesis; Leucaena; Poisonous plant; Alkaloids

Tangendjaja, B. AJAEA; Hogan, J.P.; Wills, R.B.H.

Degradation of mimosine by rumen contents: effects of feed composition and Leucaena substrates (Feeding, Leucaena leucocephala, sheep)

Australian journal of agricultural research. v. 34 (3), 1983, pp. 289-293.

Melbourne: Commonwealth Scientific and Industrial Research Organization.

Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)

Tangendjaja, B.; Lowry, J.B.; Wills, R.B.H.

Optimisation of conditions for the degradation of mimosine in Leucaena leucocephala leaf (Potential animal feed in the tropics, toxins in plants)

Journal of the science of food and agriculture. v. 35 (6), June 1984. pp. 613-616.

Oxford, England: Blackwell Scientific Publications.

Section Headings: FEED PROCESSING AND STORAGE (R100)

Taplin, D.E.; D'Mello, J.P.F.; Phillips, P.

Evaluation of Leucaena leaf meal from Malwai as a source of xanthophylls for the laying hen (Effects of feeding, feed composition, pigmentation of egg yolk)

Tropical science. v. 23 (3), 1981. pp. 217-226. ill.

London: Her Majesty's Stationery Office.

Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300); FOOD COMPOSITION -- POULTRY (Q503)

Teeluck, J.P.; Nicolin, R.; Hulman, B.; Preston, T.R.

A note on the use of cassava (Manihot esculenta) as a combined protein and roughage source for growing cattle fed molasses/urea

Anim. Production Div., Ministry of Agric. and Natural Resources and the Envir., Reduit, Mauritius.

Tropical Animal Production, 1981, 6, 1, pp. 81-84.

Descriptors: Manihot esculenta; Pennisetum purpureum; Saccharum officinarum; Setaria spp.; Leucaena leucocephala; chemical composition; protein; cutting; date; liveweight gain cattle; tropical forages

Teeluck, J.P.; Hulman, B.; Preston, T.R.

Leucaena forage and elephant grass as roughage and protein sources in a molasses/urea based diet for fattening Zebu cattle

Tropical animal production. v. 7 (3), 1982. pp. 241-245. ill.

Santo Domingo: Consejo Estatal del Azucar, Division de Ganaderia y Boyada.

Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)

Telek, L.

Preparation of leaf protein concentrates from Leucaena leucocephala  
Leucaena research reports. v. 3, July 1982. pp. 93-94.

Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: FEED PROCESSING AND STORAGE (R100)

Teixeira, J.B.; Oliva, M.A.; Cambraia, J.  
Efficiency of water use by forage legumes subjected to water deficit.  
Eficiencia no uso da agua em leguminosas forrageiras submetidas a deficit hidrico

CENARGEN, EMBRAPA, 70770 Brasilia, DF, Brazil.

Revista Ceres, 1983, 30, 172, pp. 463-470.

Descriptors: Cajanus cajan; Leucaena leucocephala; Drought resistance; Transpiration; Photosynthesis; Plant water relations; water stress; Legumes; water relations; water stress; water use efficiency; Water balance; Galactia; Cajanus; Neonotonia; Leucaena; Centrosema; Drought; Galactia striata; Neonotonia wightii; Centrosema brasilianum; Centrosema pubescens

Tessema, S.; Emojong, E.E.

Utilization of maize and sorghum stover by sheep and goats after feed-quality improvement by various treatments and supplements

FAO/National Dryland Farming Research Station, Katumani, Kenya.

East African Agricultural and Forestry Journal, 1984, 44, Suppl., pp. 408-415.

Descriptors: sheep feeding; maize stover; treatment; Kenya; sorghum stubble; goat feeding; tropics; supplements; sorghum; fodder; quality; sodium hydroxide

Thoma, P.E.

Leucaena-Rhizobium compatibility and nitrogen fixation (Includes Albizia occidentalis)

Desert plants. v. 5 (3), 1983. pp. 105-111. ill.

Superior: University of Arizona.

Section Headings: SOIL BIOLOGY (J100)

Thomas, D.; De Andrade, R.P.

Preliminary evaluation of legume germ plasm in the Cerrados of Brazil  
(Leucaena leucocephala, Stylosanthes species)

Proceedings of the XVI International Grassland Congress: held at Lexington, Kentucky, U.S.A. June 15-24, 1981/edited by J. Allan Smith and Virgil W. Hays. pp. 184-187.

Boulder, Colo.: Westview Press, 1983.

Section Headings: PLANT BREEDING (F200)

Thomson, D.P.; Melvor, J.G.; Gardener, C.J.

The effect of seedbed type on the establishment of legumes and grasses at four sites in North Queensland

Dep. of Primary Industries, Brisbane, Qld. 4001, Australia.

Tropical Grasslands, 1983, 17, 1, pp. 3-10.

Descriptors: Leucaena leucocephala; Clitoria ternatea; Macroptilium atropurpureum; Stylosanthes hamata; Stylosanthes scabra; Chrysopogon; Urochloa mosambicensis; Cenchrus ciliaris; Chloris gayana; Brachiaria decumbens; Bothriochloa insculpta; seedbed preparation; establishment

Topsy, J.; Teeluck, J.P.; Hulman, B.

Effect of a diet composed entirely of green feed on the growth of young male

Anglo-Nubian goats

Effet d'une ration composee uniquement de fourrages verts sur la croissance de jeunes males anglo-nubiens

Dep. Production Animale, Ministere de l'Agriculture, des Peches et des Ressources naturelles, Reduit, Mauritius.

Tropical Veterinary Journal, 1983, 1, 1, pp. 25-28.

Descriptors: Green fodders; goat feeding

Torres, F.

Potential contribution of *Leucaena* hedgerows intercropped with maize to the production of organic nitrogen and fuelwood in the lowland tropics (Zea mays)

Agroforestry systems. v. 1 (4), 1983. pp. 323-333.

The Hague: Martinus Nijhoff/W. Junk.

Section Headings: SOIL FERTILITY AND FERTILIZERS (J500); FOREST PRODUCTS -- WOOD (K510); BIOMASS ENERGY SOURCES (P120)

Vaishnav, M.N.; Jhala, B.K.

Gujarat (Leucaena leucocephala, silviculture, India, nursery and plantation techniques)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 46-51.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Valiente, A.M., Jr.; Manalo, D.P.; Federizon, E.F.; Baente, C.M.

Agro-socio-economic study of rubber farmers in Zamboanga del Sur Study, Special Studies Division, Planning Service, Department of Agriculture, Philippines, 1981, No. 81-5, 20 pp.

Descriptors: rubber; production; costs; returns; Philippines

Van den Beldt, R.J.

Effect of spacing on growth of *Leucaena* (Wood yield, Hawaii)

*Leucaena* research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 103-108. ill.

Ottawa: The Centre, 1983.

Section Headings: FORESTRY PRODUCTION -- GENERAL (K100)

Van den Beldt, R.J.; Brewbaker, J.L.; Hu, T.W.; Boontawee, B.

International *Leucaena* population trials (Tree volume, height, spacing, yields)

*Leucaena* research reports. v. 3, July 1982. pp. 96-99.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: FOREST MENSURATION AND DESCRIPTION (K250); FORESTRY PRODUCTION -- GENERAL (K100)

Van den Beldt, R.J.

Litterfall as a function of population in a 1-year old *Leucaena* (K8) planting (Nurse and shade crop in agroforestry systems)



Leucaena research reports. v. 3, July 1982. p. 95.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: SOIL BIOLOGY (J100); FORESTRY RELATED (K001)

Vearasilp, T.  
Digestibility of rice straw rations supplemented with Leucaena leucocephala  
and Gliricidia maculata  
Dep. of Anim. Husbandry, Chiang Mai Univ., Chiang Mai, Thailand.  
Thai Journal of Agricultural Science, 1981, 14, 3 pp. 259-264.  
Descriptors: Leucaena leucocephala; intake; digestibility; nutritive value;  
Gliricidia maculata; straw; supplementation effects; sheep

Venkat Reddy, N.; Das, R.B.  
Varietal performance of Leucaena in drylands  
Leucaena research reports. v. 3, July 1982. p. 42.  
Taipei, Taiwan: Council for Agricultural Planning and Development.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Venketeswaran, S.; Gandhi, V.  
Mass propagation and genetic improvement of forest trees for biomass  
production by tissue culture  
Dep. Biol., Univ. Houston, TX 77004, USA.  
Biomass, 1982, 2, 1, pp. 5-15.  
Descriptors: Leucaena leucocephala; Sapium sebiferum; callus; vegetative  
propagation; embryo culture; tissue culture; Leucaena; Sepium; biomass  
production; energy

Venketeswaran, S.; Romano, E.J.  
Tissue culture of forest trees for biomass energy production through in  
vitro propagation (Sapium sebiferum, Leucaena leucocephala, Copaifera  
multijuga)  
Plant tissue culture 1982: proceedings, 5th International Congress of  
Plant Tissue and Cell Culture held at Tokyo and Lake Yamanake, Japan, July  
11-16, 1982/edited by Akio Fujiwara. pp. 725-726.  
Tokyo: Japanese Association for Plant Tissue Culture, (1982?).  
Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); FORESTRY  
PRODUCTION -- ARTIFICIAL REGENERATION (K120); BIOMASS ENERGY SOURCES (P120)

Venkateswarlu, J.; Reddy, N.V.; Das, R.B.; Rao, U.M.B.  
Role of Leucaena in intercropping in dryland farming  
AICRP for Dryland Agric., Hyderabad 500 013, A.P., India.  
Leucaena Research Reports, 1981, 2, p. 30.  
Descriptors: Ricinus communis; sorghum; Pennisetum americanum;  
intercropping; Leucaena leucocephala

Verinumbe, I.; Knipscheer, H.C.; Enabor, E.E.  
The economic potential of leguminous tree crops in zero-tillage cropping in  
Nigeria: a linear programming model  
Lake Chad Res. Inst., Maiduguri, Nigeria.  
Agroforestry Systems, 1984, 2, 2, pp. 129-138.  
Descriptors: Agroforestry; Nigeria; economics; Leucaena leucocephala;  
Nitrogen fixation; Leucaena; Trees; legume; no-tillage systems; Nigeria

Verliere, G.; Heller, R.  
Effects of nickel on the growth of isolated roots of Leucaena leucocephala (Lam.) de Wit, and characteristics of its absorption.

Effets du nickel sur la croissance des racines isolees de Leucaena leucocephala (Lam.) de Wit et caracteres de son absorption

Physiologie vegetale. v. 19 (2), April/June 1981. pp. 263-275. ill.  
Paris, Gauthier-Villars.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Versace, G.

Propagating Leucaena by grafting.

Leucaena research reports. v. 3, July 1982. p. 3.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Voigtlander, G.; Krischke, H.

Fodder production in the humid tropics

Futterbau in den feuchten Tropen

Lehrstuhl für Grünland und Futterbau, Technische Universität München, 8050 Freising-Weihenstephan, German Federal Republic.

Entwicklung + Landlicher Raum, 1983, 17, 5, pp. 3-6.

Descriptors: Brachiaria decumbens; Bangladesh; Panicum maximum; Panicum maximum var. trichoglume; Leucaena leucocephala; Stylosanthes guianensis; chemical composition; protein

Wagner, J.B.

Evaluation of native legumes in the Dominican Republic

CENIP, San Cristobal, Dominican Republic.

Tropical Animal Production, 1981, 6, 2, p. 198.

Descriptors: Centrosema spp.; Clitoria spp.; Macroptilium spp.; Desmodium spp.; Teramnus spp.; Leucaena leucocephala; Stylosanthes hamata; Centrosema pubescens; Centrosema plumieri; Dominican Republic; mixtures; grasses; Cynodon dactylon; legumes

Wahyuni, S.; Yulianti, E.S.; Komara, W.; Yates, N.G.; Obst, J.M.; Lowry, J.B.

The performance of Ongole cattle offered either grass, sun-dried Leucaena leucocephala or varying proportions of each (Liveweight gain)

Tropical animal production. v. 7 (4), 1982. pp. 275-282.

Santo Domingo: Consejo Estatal del Azucar, Division de Ganaderia y Boyada.

Section Headings: ANIMAL NUTRITION (L500); ANIMAL PHYSIOLOGY AND BIOCHEMISTRY (L600); FEED COMPOSITION (R300)

Wang, H.

The fine structure of Leucaena -- a potential raw material for the pulp and paper industry

Proceedings, Pacific Regional Wood Anatomy Conference, October 1-7, 1984, Tsukuba, Ibaraki, Japan [edited by Sudo, S.].

Dep. For., Nat. Taiwan Univ., Taipei, Taiwan.

Publ.: Ibaraki, Japan; Pacific Regional Wood Anatomy Conference, Forestry and Forest Products Research Institute, 1984, pp. 103-105.

Descriptors: Conferences; Pacific Regional Wood Anatomy Conference; IUFRO; Leucaena leucocephala; Wood anatomy; Pulping materials; Leucaena; anatomy

Wang, H.H.

Two stage non-pollution pulping of *Leucaena*.

Chung-hua lin hsueh chi k'an = Quarterly journal of Chinese forestry. v. 16 (2), June 20, 1983. pp. 209-220.

Taipei, China: Chinese Forestry Association.

Section Headings: FOREST PRODUCTS -- COMPOSITE AND RECONSTITUTED WOOD (K520)

Wang, S.H.; Lin, H.H.

Low-sulfidity pulping of *Leucaena leucocephala*.

Chung-hua lin hsueh chi k'an = Quarterly journal of Chinese forestry. v. 15 (4), Dec. 25, 1982. pp. 55-62.

Taipei, China: Chinese Forestry Association.

Section Headings: FOREST PRODUCTS -- PULP AND PAPER (K530)

Weerakoon, W.L.; Seneviratne, A.M.

Managing a sustainable farming system in Sri Lanka

Proceedings British Crop Protection Conference -- Weeds

Reg. Agric. Res. Sta., Maha Illuppallama, Sri Lanka, 1982, pp. 689-696.

Descriptors: *Macroptilium atropurpureum*; *Leucaena leucocephala*; Sri Lanka; weed control; reviews; integrated control; conferences; British Crop Protection Conference, Weeds

Weeraratna, C.S.

Nitrogen release during decomposition of *Leucaena* leaves (Green manure)

*Leucaena* research reports. v. 3, July 1982. p. 54.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: SOIL FERTILITY AND FERTILIZERS (J500); SOIL BIOLOGY (J100)

Whisenant, S.G. JRMGA; Ueckert, D.N.

Germination response of *Eysenhardtia texana* ad *Leucaena retusa* (Leguminous forage shrubs native to arid and semiarid regions, Texas, (Mexico))

Journal of range management. v. 35 (6), Nov. 1982. pp. 748-750. ill.

Denver: Society for Range Management.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Whiting, M.G.

Food uses of *Leucaena* seeds. 1. Tempeh lamtoro, preparation and toxicity

*Leucaena* research reports. v. 3, July 1982. pp. 100-101.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: FOOD SCIENCE AND FOOD PRODUCTS (Q000); FOOD CONTAMINATION AND TOXICOLOGY (Q200)

Wiersum, K.F.

Early experiments in agroforestry: colonial tobacco cultivation with tree fallows in Deli, Sumatra

Dorschkamp Res. Inst. For. & Landscape Planning, Wageningen, Netherlands.

International Tree Crops Journal, 1983, 2, 3/4, pp. 313-321.

Descriptors: Agroforestry; Indonesia; history

Wiersum, K.F.

Labour opportunities in taungya and other forms of agroforestry

Observations of agroforestry on Java, Indonesia. Report on an agroforestry

course organized at Forestry Faculty, Gadjah Mada University, Yogyakarta.

Publ.: Wageningen, Netherlands; Department of Forest Management, Agricultural University, 1981, pp. 62-67.

Descriptors: Pinus merkusii; plantations; Indonesia; Tectona grandis; Albizia falcataria; Acacia glauca; Leucaena leucocephala; Gliricidia sepium; Calliandra calothyrsus; erosion; control measures, general; agroforestry; labour, forest, taungya; conservation, soil and water; contour ridging, trenching and terracing; catchment areas; management

Wiersum, K.F.

Litter production and decomposition of some reforestation species on Java  
Observations of agroforestry on Java, Indonesia. Report on an agroforestry course organized at Forestry Faculty, Gadjah Mada University, Yogyakarta.

Publ.: Wageningen, Netherlands; Department of Forest Management, Agricultural University, 1981, pp. 105-111.

Descriptors: Acacia auriculiformis; Acacia glauca; Leucaena leucocephala; Gliricidia sepium; Calliandra calothyrsus; Albizia falcataria; Dalbergia latifolia; Swietenia mahagoni; litter; forest; quantitative measures; decomposition; Indonesia; agroforestry

Wiersum, K.F.

Multiple-purpose species for planting on critical soils on Java  
Observations of agroforestry on Java, Indonesia. Report on an agroforestry course organized at Forestry Faculty, Gadjah Mada University, Yogyakarta.

Publ.: Wageningen, Netherlands; Department of Forest Management, Agricultural University, 1981, pp. 76-89.

Descriptors: Pinus merkusii; plantations; Indonesia; Anacardium occidentale; Acacia auriculiformis; Acacia glauca; Calliandra calothyrsus; Gliricidia maculata; Leucaena leucocephala; agroforestry; trees and shrubs; choice of species; afforestation; marginal, waste, degraded land

Wiersum, K.F.

The performance of some small tree legumes on eroded lands at Wanagama experimental forest

Observations of agroforestry on Java, Indonesia,. Report on an agroforestry course organized at Forestry Faculty, Gadjah Mada University, Yogyakarta.

Publ.: Wageningen, Netherlands; Department of Forest Management, Agricultural University, 1981, pp. 90-96.

Descriptors: Acacia glauca; Calliandra calothyrsus; Gliricidia maculata; Leucaena leucocephala; afforestation; eroded sites; Indonesia; species trials

Wilbur, R.L.

Generic typification and article 10.1 with comments on the typification of the generic names *Diamorpha*, *Leucaena*, *Odontonema*, *Picrodendron* and *Pseudolarix*

Taxon. v. 30 (2), May 1981. pp. 449-456.

Utrecht, International Bureau for Plant Taxonomy and Nomenclature.

Section Headings: PLANT TAXONOMY AND GEOGRAPHY (F700)

Wildin, J.H.

Adoption of *Leucaena* for cattle grazing in Australia

Proceedings of the XVI International Grassland Congress: held at

Lexington, Kentucky, U.S.A. June 15-24, 1981/edited by J. Allan Smith and Virgil W. Hays. pp. 801-803.

Boulder, Co.: Westview Press, 1983.

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130)

Wildin, J.H.; Walker, B.; French, A.V.; Graham, T.W.

Forages for beef cattle in the brigalow of central Queensland

Dep. Primary Industries, Rockhampton, Qld. 4700, Australia. Proceedings of the Australian Society of Animal Production, 1982, 14, p. 614.

Descriptors: forage; pastures; cattle; feeding; Australia; tropics; Panicum maximum var. trichoglume; Cenchrus ciliaris; Chloris gayana; Leucaena leucocephala; Stylosanthes scabra; liveweight gain; grazing

Wildin, J.H.

Leucaena -- establishment and management

Dep. of Primary Industries, Rockhampton, Qld., Australia.

Tropical Grasslands, 1983, 17, 2, pp. 93-94.

Descriptors: Leucaena leucocephala seed production; grazing; establishment;

Wills, R.B.H.; Tangendjaja, B.

Effect of pH (hydrogen-ion concentration) and temperature on the degradation of mimosine and 3-hydroxy-4(1H)-pyridone (Leucaena leucocephala).

Phytochemistry. v. 20 (8), 1981. pp. 2017-2018. ill.

Oxford, Pergamon Press.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600)

Wilson, G.F.; Kang, B.T.

Developing stable and productive biological cropping systems for the humid tropics

Stonehouse, B. (Editor): Biological husbandry. A scientific approach to organic farming.

Publ.: London, UK; Butterworths, 1981, pp. 193-203.

Descriptors: agricultural systems (specified); intercropping; Leucaena leucocephala; maize; agricultural systems; soil types (climatic); tropical soils

Wilson, G.F.; Akapa, K.

Improving the in-situ stem support system for yams

Tropical root crops: research strategies for the 1980s [Terry, E.R.; Oduro, K.A.; Caveness, F. (Editors)].

IITA, Ibadan, Nigeria.

Publ.: Ottawa, Canada; International Development Research Centre, 1981, pp. 195-197.

Descriptors: conferences; tropical root crops: research strategies for the 1980s; yams; stems; support systems

Winter, W.H.; Jones, R.J.

Animal production from low and high mimosine Leucaena

CSIRO, Division of Tropical Crops and Pastures, Annual Report 1981-82.

Publ.: Brisbane, Australia, 1982, p. 112.

Descriptors: Leucaena leucocephala; chemical composition; mimosine; mixtures; grasses; Stylosanthes hamata; liveweight gain; Digitaria decumbens; Cattle; grazing; legumes; Pastures; cattle; feeding; tropics; Leucaena

Wirjodarmodjo, H.; Wiroatmodjo, P.  
Leucaena leucocephala: the Indonesian experience  
FAO Regional Office for Asia & the Pacific, Bangkok, Thailand.  
[FAO Report], 1983, No. RAPA 71, iv + 45 pp.  
Descriptors: Indonesia; Leucaena leucocephala; Silviculture; Wood properties

Wong, C.C.; Chen, C.P.; Ajit, S.S.  
Assessment of Leucaena leucocephala introductions in Peninsular Malaysia  
MARDI research bulletin. v. 10 (2), August 1982. pp. 159-166.  
Serang, Selangor: Malaysian Agricultural Research and Development Institute.  
Section Headings: PLANT BREEDING (F200)

Wong, C.C.; Devendra, C.  
Research on Leucaena forage production in Malaysia (Leucaena leucocephala)  
Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, Nov. 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre. pp. 55-60.  
Ottawa: The Centre, 1983.  
Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Wood, J.F. AFSTD; Carter, P.M.; Savory, r.  
Investigation into the effects of processing on the retention of the carotenoid fractions of Leucaena leucocephala during storage, and the effects of processing on mimosine concentration (Tropical legumes, livestock feed)  
Animal feed science and technology. v. 9 (4), Oct. 1983. pp. 307-317.  
Amsterdam: Elsevier.  
Section Headings: FEED PROCESSING AND STORAGE (R100); FEED COMPOSITION (R300)

Wu, S.C.; Wang, H.; Wang, H.H.  
Study on the high yield pulping of Leucaena (1). The fine structure of Leucaena  
Technical Bulletin, Experimental Forest, National Taiwan University, 1984, No. 153, 40 pp.  
Descriptors: Leucaena leucocephala; Pulping materials; Wood anatomy; Taiwan

Yates, N.G.  
The effect of a salt and trace element supplement on the growth of Javanese sheep offered Leucaena leucocephala  
Tropical animal production. v. 8 (1), 1983. pp. 50-52.  
Santo Domingo: Consejo Estatal del Azucar, Division de Ganaderia y Boyada.  
Section Headings: ANIMAL NUTRITION (L500); FEED COMPOSITION (R300)

Yates, N.G.  
The nutritive value of Leucaena leucocephala for Indonesian ruminants  
Project for Animal Research and Development, PO Box 123, Bogor, Indonesia.  
Proceedings of the Australian Society of Animal Production, 1982, 14, p. 678.  
Descriptors: Leucaena leucocephala; nutritive value; ruminants; tropics

Yeh, M.T.

Comparison trial of yield and mimosine content of Leucaena Leucocephala varieties at different locations (Forage crops, Taiwan).

Hsu ch'an yen chiu = Journal of the Taiwan livestock research. v. 16 (2), Dec. 1983. pp. 21-34.

Tainan: Taiwan Sheng Hsu ch'an shih yen so.

Section Headings: PLANT PHYSIOLOGY AND BIOCHEMISTRY (F600); PLANT PRODUCTION -- FIELD CROPS (F120)

Yost, R.S.

Influence of VA mycorrhizae on early growth and P nutrition of Leucaena Dep. of Agron. and Soil Sci., Hawaii Univ., Honolulu, HI 96822, USA. Leucaena Research Reports, 1981, 2, p. 84.

Descriptors: Leucaena leucocephala; mycorrhiza; plant nutrition; phosphorus

Young, C.C.; Chao, C.C.

The selection of Rhizobium of Leucaena leucocephala in Taiwan

Leucaena research reports. v. 3, July 1982. p. 70.

Taipei, Taiwan: Council for Agricultural Planning and Development.

Section Headings: SOIL BIOLOGY (J100)

Zahradnik, F.

New soil-healing legumes make poor sites profitable (White lupine ULTRA, birdsfoot trefoil, clover Leucaena, USA)

The New farm. v. 6 (5), July/August 1984. pp. 29-31.

Emmaus, Pa.: Regenerative Agriculture Association.

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120)

Leucaena, promising forage and tree crop for the tropics: report of an ad hoc panel of the Advisory Committee on Technology Innovation, Board on Science and Technology for International Development, Office of International Affairs; in cooperation with the Nitrogen Fixing Tree Association.

National Research Council (U.S.). Advisory Committee on Technology Innovation.

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viii, 100 pp.: ill.; 23 cm.

Washington, D.C. National Academy Press 1984.

Descriptors: Leucaena; Leguminosae- Tropics

Section Headings: PLANT PRODUCTION -- PASTURES AND RANGE (F130); FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, November 23-26, 1982/organized by the Nitrogen Fixing Tree Association and the International Development Research Centre.

Nitrogen Fixing Tree Association. International Development Research Center (Canada).

192 pp.: ill.; 25 cm.

Ottawa International Development Research Centre 1983.

Descriptors: Leucaena -- Congresses; Leguminosae -- Asia -- Congresses; Leguminosae -- Pacific area -- Congresses

Section Headings: PLANT SCIENCE (F000)

West Bengal. II. (Leucaena leucocephala, locality factors in India, nursery and plantation techniques)

Leucaena leucocephala in India: proceedings of National Seminar, Urulikranchan, June 26-27, 1981/edited by R.N. Kaul, M.G. Gogate & N.K. Mathur. pp. 135-136.

(New Delhi?): Ministry of Agriculture, Govt. of India, 1983.

Section Headings: FORESTRY PRODUCTION -- ARTIFICIAL REGENERATION (K120)

Leucaena research reports

Hsing cheng yuan nung yeh fa chan wei yuan hui (China). University of Hawaii at Manoa. Dept. of Horticulture. Tai-wan sheng lin yeh shih yen so. Nitrogen Fixing Tree Association.

Leucaena newsletter

v.: ill.; 27 cm.

Taipei, Taiwan Council for Agricultural Planning and Development, Began in 1981.

Descriptors: Leucaena -- Research

Section Headings: PLANT PRODUCTION -- FIELD CROPS (F120); PLANT PRODUCTION -- PASTURES AND RANGE (F130); SOIL BIOLOGY (J100)