

Medicinal Plants and Extracts



North America	Western Europe	Eastern Europe
Africa	India	China

Issue 24
September
2007

Disclaimer

This report has been prepared without formal editing, as a service to exporters and industries in developing countries by the Market News Service (MNS), Division of Product and Market Development, International Trade Centre UNCTAD/WTO.

No part of this report may be reproduced, stored in a retrieval system or transmitted in any form or by any means, without prior permission in writing from the International Trade Centre.

The mention of specific companies or of certain commercial products and brand names does not imply that they are endorsed or recommended by ITC in preference to others of a similar nature that are not mentioned.

The designations employed and the presentation of material on the map do not imply the expression of any opinion whatsoever

Prepared by Mr. Josef Brinckmann, ITC Consultant
brink@sonic.net

International Trade Centre UNCTAD/WTO
54-56 rue de Montbrillant, CH-1202 Geneva, Switzerland.
Tel: (4122) 730 01 11 - Fax: (4122) 733 44 39
E-mail: itcreg@intracen.org; URL: <http://www.intracen.org>

Postal address: International Trade Centre UNCTAD/WTO
Palais des Nations, CH-1211 Geneva 10, Switzerland

EDITORS NOTE

MNS Medicinal Plant and Extracts report is a formatted version of a news and information bulletin prepared by the International Trade Centre to promote international trade in medicinal plants and botanical extracts. The revised version of the report includes substantially more information on the structure and function of the market. These additional features have been included after extensive consultation with existing subscribers and trade experts.

For subscription details please contact MNS in Geneva at the address given below.

Coverage: Issue No. 23 includes six regional reviews and a special features section.

1. North America
2. Western Europe
3. Eastern Europe
4. China
5. India
6. Africa

The regional reviews cover the six main producing regions of the world. Information on Latin America, Caribbean and Pacific countries will be covered from time to time in the special features section of the bulletin (see below)

Scope: Each regional section includes news on

- Demand and supply trends including industry news
- Indicative prices of raw materials
- Indicative prices of herbal extracts
- Trade specifications commonly used in each region.
- Trade fairs and conferences

Prices: Prices and quotations are in US dollars per kilo unless otherwise stated. They should be considered indicative only and reflect the price of a product of a specific phytochemical characteristic from a specified origin. The level of marker compounds (for chemical standardization of extracts) referred to in quotes are those commonly found in the industry. They do not imply any sort of "trading standard".

Great care should be taken when comparing prices of medicinal plants and extracts from differing origins as form structure and biochemical activity may differ considerably between very similar products.

Specifications: The selected specification sheets given are actual industry specifications commonly used by exporters and importers. We do not guarantee their content or accuracy nor wish to imply that they have any legal status in trade.

Subscriptions: To subscribe to the MNS Medicinal Plants and Extracts report or learn more about the many other MNS services provided by ITC please contact:

Market News Service (MNS)
International Trade Centre UNCTAD/WTO
Palais des Nations, 1211 Geneva 10, Switzerland
Tel: +4122 730 01 11 Fax: +4122 730 05 72
E-mail for general enquiries mns@intracen.org
E-mail for subscriptions: mns-subs@intracen.org
Website: www.p-maps.org/mns

SPECIAL FEATURES

Global Herb Trade Association Directory: Each edition includes a regularly updated directory with contact information for herb trade associations, councils and export promotion organizations that represent the growers, wild collectors, processors, and traders of medicinal herbs and extracts.

Trade Specifications: Each edition contains trade specifications for medicinal herbs or extracts from each of six covered regions. In this issue you will find specifications for medicinal herbs and extracts that are used in oral health care and hygiene products: **Myrrh tincture (Africa)**, **Green Tea extract (China)**, **Clove bud oil (India)**, **Calendula tincture (Eastern Europe)**, **Rhatany tincture (Western Europe; raw material from Peru)**, and **Compound Benzoin Tincture (North America; Benzoin resin raw material from Indonesia, Laos or Vietnam)**.

Back Issues: Each edition also includes an alphabetical reference list of trade specifications that are available in back issues of the MNS since 2001.

Rates of Exchange: 28 May 2007

CURRENCY	CODE	UNITS 1 / USD
British Pound	GBP	0.5042
Canadian Dollar	CAD	1.0802
Chinese Yuan Renminbi	CNY	7.6570
Egyptian Pound	EGP	5.6950
EURO	EUR	0.7433
Indian Rupee	INR	40.2750
Hong Kong Dollar	HKD	7.8201
Japanese Yen	JPY	121.6900
Malaysian Ringgit	MYR	3.3910
Mexican Peso	MXN	10.7880
Moroccan Dirham	MAD	8.3268
Peruvian Nuevo Sol	PEN	3.1950
Russian Ruble	RUB	25.8520
Swiss Franc	CHF	1.2287

Some Useful Terminology

AEZ:	Agri Export Zones
CBD:	Convention on Biodiversity
cfu/g:	Colony-forming units per gram
C&F:	Cost & Freight; means the price includes cost and freight charges
CFR:	Seller has the same responsibilities as when shipping FOB, but shipping costs are prepaid by the seller
CIF:	Cost Insurance Freight; means the price includes cost, freight and insurance
CITES:	Convention on International Trade in Endangered Species of Wild Flora & Fauna
C/S:	Cut and sifted
COMTRADE:	Commodity Trade Statistics Database
COSEWIC:	Committee on the Status of Endangered Wildlife in Canada
Extract:	Concentrated preparations of liquid, dry or semi-solid consistency obtained from botanical raw materials, prepared by maceration, percolation or other methods using solvents (e.g. water, ethanol) or by supercritical fluid (CO ₂) technology
EXW:	Ex works - Buyer arranges for pick up of goods at the seller's location. Seller is responsible for packing, labeling, and preparing goods for shipment on a specified date or time frame
Farm Gate Price:	Refers to the dollar value of agricultural products that you receive from direct farm sales or the value of primary products used for processing
FAS:	Free alongside ship - Buyer arranges for ocean transport. Seller is responsible for packing, labeling, preparing goods for shipment and delivering the goods to the dock.
FAS Value:	Value of exports at the seaport, airport, or border port of exportation, based on the transaction price including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the port of export
FCA:	Free carrier: seller is responsible for costs until the buyer's named freight carrier takes charge
FOB:	Free On Board - means that the price only includes the cost of the item. Seller arranges for transport of the goods, preparing goods for shipment, and loading the goods onto the vessel
FOR & FOT:	Free On Rail or Free On Truck; both refer to goods being carried by rail and should only be used when the goods are carried by rail. The risk of loss or damage is transferred when the goods are loaded onto the rail.
FTA:	Free Trade Agreement
GACP:	Good Agricultural and Collection Practice
GAP:	Good Agricultural Practice
GMP:	Good Manufacturing Practice
ha:	Hectare
HPLC:	High Performance Liquid Chromatography
HS Code:	Harmonized System Code
I/S:	In-store meaning the herb (e.g. flax seed) is in the grain elevator
ISSC-MAP:	International Standard for Sustainable Wild Collection of Medicinal and Aromatic Plants
MAP:	Medicinal and Aromatic Plants
NLT:	Not less than
NHP:	Natural Health Product (Canada)
NAICS:	North American Industry Classification System
NESOI:	Not Elsewhere Specified Or Included
NMT:	Not more than
NTFP:	Non Timber Forest Products
OTC:	Over the Counter medicines: Medicines sold without a prescription
TBC:	Tea bag cut
TCM:	Traditional Chinese Medicine
THM:	Traditional Herbal Medicine
THMP:	Traditional Herbal Medicinal Products
TLC:	Thin Layer Chromatography
USD:	United States Dollar
VAT:	Value Added Tax

NORTH AMERICA

TRADITION TO TECHNOLOGY CONFERENCE: MEDICINAL PLANT MARKET TRENDS & OPPORTUNITIES, CONSERVATION, CULTIVATION, SUSTAINABLE WILD COLLECTION AND QUALITY

The “Tradition to Technology” Conference took place 10-13 May in Saskatchewan, Canada, presented by the Natural Health Products Research Society of Canada and the Canadian Herb, Spice and Natural Health Products Coalition (CHSNC). The Conference featured sessions on market trends including a “Botanical Market Overview” presented by Edward Fletcher of Strategic Sourcing Inc. (North Carolina, USA) and a plenary lecture “Developing Products within the Natural, Nutritional Products Marketplace: Success, Failures and Missed Opportunities” was delivered by Len Monheit, President and Editor of NPIcenter. Simo Moisio, M.Sc., eMBA, Executive Director of the Arctic Flavours Association (Suomussalmi, Finland) presented “Current Situation and Future Prospects for NTFP Markets: The Nordic Perspective,” wherein he provided data on the most important wild collected plants in Nordic countries. In Finland about 15 million kilos of bilberry fruit (*Vaccinium myrtillus*) are wild harvested annually, most of which consumed for personal use and between 3 to 5 million kilos are processed commercially. In the Nordic countries, about 35 million kilos of berries are wild collected from forests annually with Sweden and Finland increasing their exports of bilberry fruit. Other wild fruits collected in the region include lingonberry (*Vaccinium vitis-idaea*) and sea buckthorn (*Hippophae rhamnoides*), among others.

There were also sessions focused on conservation, cultivation and/or sustainable wild collection including a training session on “Good Production Practices” presented by Connie Kehler, Executive Director of the CHSNC, wherein she discussed how the Good Agriculture and Collection Practices (GACPs) that are being developed by the Canadian herb industry along with the Natural Health Products Directorate (NHPD) will fit together with the Good Manufacturing Practices (GMPs) that finished product manufacturers must already comply with under the new Natural Health Product (NHP) regulations. The CHSNC is holding training and information workshops for herb growers and collectors across Canada and is also offering a HACCP-based GACP program for herb producers.

The “International Standard for Sustainable Wild Collection of Medicinal and Aromatic Plants” (ISSC-MAP) was presented by Dr. Danna J. Leaman, Medicinal Plant Specialist Group (MPSG) Species Survival Commission of World Conservation Union (IUCN) and “Primary NTFP species in Saskatchewan and some sustainable management recommendations” was presented by Michael McLaughlan, registered professional forester and forest ecologist with Forest Service of Saskatchewan Environment. The MAP species examined in McLaughlan’s presentation included fireweed (*Epilobium angustifolium*), Labrador tea (*Ledum groenlandicum*), lingonberry (*Vaccinium vitis-idaea*), low-bush blueberry (*Vaccinium angustifolium*), ostrich fern fiddlehead (*Matteuccia struthiopteris*), reindeer lichen (*Cladina* spp.), and sweet gale (*Myrica gale*), among others.

“Certification Options for Non-Timber Forest Products in Canada,” was presented by Medical Herbalist Amanda Howe of the Centre for Non-Timber Resources, Royal Roads University (British Columbia, Canada). Howe, also a Member of the UK National Institute of Medical Herbalists (MNIMH), discussed how the medicinal plant industry is made up of many small-scale producers, many of whom make only a marginal living in rural, often remote areas. Implementation of certification and the subsequent potential growth of the trade could be of benefit to these people and to rural communities in need of economic diversification. Howe identified existing certification options and discussed their relative suitability to the trade. She is also author of the 119-page report “Development of Good Wildcrafting Practices and Wildcrafter Certification for Medicinal Plants”: <http://www.royalroads.ca/NR/rdonlyres/277C1D29-77B5-470C-9B75-C63D477F4B0/0/Wildcraftingfinalreport.pdf>

Dr. Lal Singh of the Himalayan Research Group (HRG) presented “Propagation Techniques and Agro-Technology of Himalayan Medicinal Plants.” The HRG has provided farmers with a complete bio-business model for the cultivation, harvesting, quality testing and marketing of chirata (*Swerita chirayita*) and picrorhiza (*Picrorhiza kurroa*). Steven Williams, University of Alberta, presented “Cultivating Success: Growing *Rhodiola rosea* on the Prairies,” and Hazrah Moothoo of West Kootenay Herb Growers Cooperative presented “Hawthorn Agroforestry Demonstration Farm Trial,” which discussed the research to determine whether European species of hawthorn (*Crataegus laevigata*, *C. monogyna*) can be established in Canada as economically viable and environmentally

sustainable cash crops in order to eventually reduce imports of hawthorn from Eastern European countries.

For more information on the results of the Traditional to Technology conference contact the conference chairs Alister Muir: muira@agr.gc.ca or Connie Kehler: shsa@Sasktel.net or visit the conference website at: http://www.saskherbspice.org/tradition_to_technology.

SOURCE: Josef Brinckmann: brink@sonic.net

SUPPLY AND DEMAND

AMERICAN GINSENG (*Panax quinquefolius*) CROP DAMAGE FROM FUNGUS AND AIR POLLUTION

Ontario Ministry of Agriculture reports that ginseng gardens 3 years and older have begun to show top wilt. After a few days of heat and humidity the plants are showing signs of foliar *Phytophthora* spp. *Phytophthora* is showing well developed sporangia with zoospores already formed. There are also many oospores which indicates that the fungus, as well as the plant, is under considerable stress. With predicted rains these oospores may directly produce many sporangia. This situation is explosive in ginseng gardens. Untreated gardens will experience widespread infection after a rainfall. The Ministry warns ginseng growers to not underestimate this disease and to apply Maestro® 80DF fungicide (captan) immediately (recommended rate of 4.2 kg per hectare). Maestro is registered for use (in Canada) in ginseng gardens up to 4 times under an emergency use permit until 30 June 2007 (NOTE: Growers exporting ginseng roots to the USA are advised, however, that there is no acceptable residue limit for captan on ginseng). The prognosis when this occurs so early in ginseng is not promising. New top growth will not occur and the roots, even though not yet diseased, will be smaller now than they were last fall. The ministry also reports that some ginseng appears to be affected by air pollution. There have been a number of 'smog alert' days this season and some very hot weather. Leaves damaged by air pollution become vulnerable to infection from *Botrytis* spp. The fungicides Elevate® (fenhexamid) and Bravo® (chlorothalonil) are registered for *Botrytis* control in ginseng.

SOURCE: Government of Ontario Ministry of Agriculture, Food and Rural Affairs. Ginseng and Specialty Crop Report. Guelph, ON: Government of Ontario. 31 May 2007 and 06 June 2007.

BLACK COHOSH (*Actaea racemosa*) WILD POPULATION MONITORING PROJECT

The U.S. Department of Agriculture (USDA) Forest Service, U.S. Fish and Wildlife Service (USFWS) and Garden Club of America, in collaboration with the Plant Conservation Alliance (PCA) Medicinal Plants Working Group (MPWG) are leading two black cohosh monitoring projects in Virginia. Volunteers are needed for field projects in Reddish Knob, Virginia (24-26 June) and Mt. Rogers Recreation Area, Marion, Virginia (26-28 August). Nearly 100% of the black cohosh root commercial supply is wild collected from forests of Eastern United States. In the short-term, the aim of the monitoring project is to collect information that provides important census and ecological data. In the long-term, it will assist the Forest Service, Natural Products Industry and other land management agencies to better determine the sustainable yields for wild black cohosh root. Project information for the Reddish Knob project site is available at: <http://www.nps.gov/plants/medicinal/projects/2007Virginia-ReddishKnob.pdf>. Project information for Mt. Rogers: <http://www.nps.gov/plants/medicinal/projects/2007Virginia-MountRogers.pdf>. These projects are conducted with monetary support from a National Fish and Wildlife Foundation grant. For more information contact Trish Flaster, MPWG-Conservation Committee Chair at tflastersprint@earthlink.net.

SOURCE: Plant Conservation Alliance Medicinal Plant Working Group: <http://www.nps.gov/plants/medicinal>.

ECHINACEA ANGUSTIFOLIA (*Echinacea angustifolia*) BREEDING PROGRAM SEMINAR

On 12 June 2007, the Western Canadian Functional Food & Natural Health Product Network (WCFN) will present a webcast seminar titled "*Boosting Quality and Yield in Botanical Crops: Selecting phytochemically rich Echinacea angustifolia genotypes for a breeding program.*" Presenters include Dr. Shannon Cowan (Faculty of Land & Food Systems, University of British Columbia (UBC)), Ms. Paula Brown, MSc (Research Program Head, NHP Research Group, BCIT), and Mr. Alain Boucher, MSc (Centre for Plant Research, UBC). The seminar aims to deliver integrated evidence from traditional

breeding, chemistry and pharmacology; how to manage crops with a narrow genetic base under diverse environmental growing conditions; how to increase profit margins; cost effectiveness for smaller companies. The target audience includes echinacea farmers, Natural Health Product (NHP) industry stakeholders (manufacturers, producers, retailers), NHP researchers (clinicians, pharmacologists, chemists, botanists), academia, trade associations, government and regulatory agencies.

SOURCE: Western Canadian Functional Food & Natural Health Product Network (WCFN): <http://www.bcf2.com/html/news.html>

2007/2008 INDUSTRY DIRECTORY FOR HERBS IN WESTERN CANADA

The Western Canadian Functional Food & Natural Health Product Network (WCFN) has published its "Western Canadian Natural Sources Directory 2007/08," a 58-page pamphlet that is also available to download free on-line, an industry directory for herbs, nutraceuticals, functional foods, and natural health products. The directory includes business descriptions and contact details for medicinal plant farms including these, among others:

- **Botanical Specialites:** Angelica (*Angelica archangelica*), arnica (*Arnica montana*), catnip (*Nepeta cataria*), dong quai (*Angelica sinensis*), echinacea (*Echinacea* spp.), lavender (*Lavandula angustifolia*), valerian (*Valeriana officinalis*)
- **Boundary Botanicals:** Lycium (*Lycium barbarum*), sea buckthorn (*Hippophae rhamnoides*), schisandra (*Schisandra chinensis*)
- **Chai-Na-Ta Corp:** American ginseng (*Panax quinquefolius*)
- **Duck Lake Flats:** Sea buckthorn (*Hippophae rhamnoides*)
- **Falcon Ridge Farms:** Echinacea (*Echinacea angustifolia*)
- **Flying Two Herb Farm:** Echinacea (*Echinacea simulata*)
- **Four Winds Farm:** Comfrey (*Symphytum officinale*), echinacea (*Echinacea* spp.)
- **GLC Growers:** Burdock (*Arctium lappa*), calendula (*Calendula officinalis*), catnip (*Nepeta cataria*), chamomile (*Matricaria recutita*), stevia (*Stevia rebaudiana*)
- **Lonewolf Native Plant & Herb Farm:** About 100 different herbs
- **North American Reishi/Nammex:** Cordyceps (*Cordyceps sinensis*), maitake (*Grifola frondosa*), reishi (*Ganoderma lucidum*), shiitake (*Lentinula edodes*)
- **Panax Q Farm Ltd:** Sea buckthorn (*Hippophae rhamnoides*)
- **Paynelea Organic Farms:** Calendula (*Calendula officinalis*), chamomile (*Matricaria recutita*), feverfew (*Tanacetum parthenium*), garlic (*Allium sativum*), hawthorn (*Crataegus* spp.), hyssop (*Hyssopus officinalis*), lemon balm (*Melissa officinalis*), lobelia (*Lobelia inflata*), skullcap (*Scutellaria lateriflora*), yarrow (*Achillea millefolium*)
- **Sunshine Bay Botanicals:** Arnica (*Arnica montana*), astragalus (*Astragalus membranaceus*), calendula (*Calendula officinalis*), catnip (*Nepeta cataria*), chamomile (*Matricaria recutita*), comfrey (*Symphytum officinale*), dong quai (*Angelica sinensis*), echinacea (*E. pallida*; *E. purpurea*), feverfew (*Tanacetum parthenium*), lavender (*Lavandula angustifolia*), lemon balm (*Melissa officinalis*), licorice (*Glycyrrhiza glabra*), skullcap (*Scutellaria lateriflora*), stevia (*Stevia rebaudiana*), valerian (*Valeriana officinalis*), yarrow (*Achillea millefolium*)
- **Tuscan Farm Gardens:** Echinacea (*Echinacea* spp.), lavender (*Lavandula angustifolia*)
- **West Kootenay Herb Growers Cooperative:** Cascara sagrada (*Frangula purshiana*), devil's club (*Oplopanax horridus*), hawthorn (*Crataegus* spp.), huckleberry (*Vaccinium* spp.), rosehips (*Rosa canina*)
- **White's Ginseng & Medicinal Herbs:** American ginseng (*Panax quinquefolius*)

SOURCE: Western Canadian Functional Food & Natural Health Product Network (WCFN). Western Canadian Natural Sources Directory 2007/08. Available at: http://www.bcf2.com/Natural_Source_2007.pdf

UNITED PLANT SAVERS OFFER MEDICINAL PLANT CULTIVATION INTERNSHIP

The United Plant Savers (UpS), a non-profit education corporation dedicated to preserving native medicinal plants, is accepting applications for a 6 week intern program, Sept 1 - Oct 14 2007, at the 378 acre UpS Botanical Sanctuary in the Appalachian foothills of Southern Ohio. Interns work 30 hours/week doing a variety of medicinal plant conservation and cultivation projects. Interns learn

general plant propagation techniques working with at-risk and endangered species, general farm upkeep and maintenance, landscape care, greenhouse work, medicinal plant identification, sustainable wild harvesting principles and practices, medicine making. Contact Betzy: 802-476-6467 or Lynda: 707-824-0731; plantsaver@mail@earthlink.net or lynda@unitedplantsavers.org.

SOURCE: United Plant Savers: <http://www.unitedplantsavers.org>

BOTANICAL RAW MATERIALS (Indicative prices: USD \$ / kg)

Product	Source	Price	Destination
American ginseng powder (<i>Panax quinquefolius</i>)	USA	12	New York
Bayberry root bark (<i>Morella cerifera</i>)*	USA	16.8	SPOT
Black pepper fruit (<i>Piper nigrum</i>)	Brazil	3.5-4.3	SPOT
Cardamom seed (<i>Elettaria cardamomum</i>)	Guatemala	3-6.5	Guatemala
Cascar a sagrada bark (<i>Frangula purshiana</i>)*	USA	6.2-11	USA
Coriander fruit (<i>Coriandrum sativum</i>)	CANADA	0.93-1.06	SPOT New York
Echinacea angustifolia root (<i>E. angustifolia</i>) **	USA	49.9-50.4	SPOT
Echinacea purpurea herb (<i>E. purpurea</i>)**	USA	5.9-7.9	Pacific NW
Echinacea purpurea root (<i>E. purpurea</i>)**	USA	12.6	Pacific NW
Goldenseal root (<i>Hydrastis canadensis</i>) *	USA	110-141	SPOT
Pepper mint leaf (<i>Mentha x piperita</i>)**	USA	6.2-8.2	FOB Pacific NW
Slippery elm bark (<i>Ulmus rubra</i>)*	USA:		
— cotton cut, wild collected *		17.8-20.9	FOB West Coast
— powder, wild *		20.1	SPOT
— powder, wild * and organic **		22.7-26.5	USA
Witch hazel leaf (<i>Hamamelis virginiana</i>) *	USA	9.9-10.1	SPOT

* Wild collected — **Certified organic

Quality Standards: Standards for most of the above listed medicinal herbs are published in the United States Pharmacopeia and National Formulary (USP-NF) and/or in the European Pharmacopoeia (PhEur).

Notes on status of wild-collected herbs: (1) Wild American ginseng is a protected species under Appendix II of the *Convention on International Trade in Endangered Species* (CITES). Additionally, the U.S. Fish and Wildlife Service (USFWS) has certain export restrictions in place and in Canada, it is listed as an 'endangered species' by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC); (2) Wild goldenseal is listed as a 'threatened species' by the COSEWIC.

EXTRACTS AND ESSENTIAL OILS (Indicative prices: US \$ / kg)

Product	Standardization	%	Price
Echinacea herb (<i>Echinacea purpurea</i>)	Phenolic compounds	4	39
Maca hypocotyle (<i>Lepidium meyenii</i>)	Glucosinolates	0.6	16-19
Mexican wild yam root (<i>Dioscorea composita</i>)	Total saponins	6.0	28
Saw palmetto fruit (<i>Serenoa repens</i>)	Total fatty acids	35	45-48
Saw palmetto fruit (<i>Serenoa repens</i>)	Total fatty acids	45	45
Tomato fruit (<i>Lycopersicon esculentum</i>)	Lycopene	5	195

PRODUCT SPECIFICATIONS
COMPOUND BENZOIN TINCTURE
Product of the USA

(Benzoin resin raw material from Indonesia, Laos or Vietnam)

Product:	Compound Benzoin Tincture
Pharmacopoeial name:	Benzoës composita tinctura
Botanical name(s):	Benzoin is the balsamic resin obtained from <i>Styrax benzoin</i> Dryander or <i>Styrax paralleloneurus</i> Perkins (Sumatra Benzoin), or from <i>Styrax tonkinensis</i> (Pierre) Craib ex Hartwich, or other species of the Section <i>Anthostyrax</i> of the genus <i>Styrax</i> (Siam Benzoin), Fam. Styraceae.
Composition:	Alcoholic liquid extract prepared from a mixture of moderately coarsely powdered Benzoin USP, moderately coarsely powdered Aloe USP (dried latex of the leaves of <i>Aloe barbadensis</i> Miller or of <i>Aloe ferox</i> Miller and hybrids of this species with <i>Aloe africana</i> Miller and <i>Aloe spicata</i>), Storax USP (balsam obtained from the trunk of <i>Liquidambar orientalis</i> Miller or of <i>Liquidambar styraciflua</i> Linné), Tolu Balsam USP (balsam obtained from <i>Myroxylon balsamum</i> (Linné) Harms), and alcohol.
Extraction solvent:	Alcohol
Drug-to-extract ratio:	1 : 4 (w/v)
Storage:	Store in tight, light-resistant containers, and avoid exposure to direct sunlight and excessive heat. Plastic containers are not recommended.
Labeling:	(1) Label it to indicate that it is flammable; (2) Label it to indicate the name of the plant part used for preparation; the name of the solvent or solvent mixture used for extraction; the content of alcohol as a percentage (v/v) of C ₂ H ₅ OH; and the content of the constituents of interest and the ratio of starting material to final product.
Physical Analysis	
Appearance:	Liquid
Color:	Brownish yellow
Odor:	Characteristic, aromatic balsamic odor
Taste:	Characteristic
Tests	
Specific gravity:	Between 0.870 and 0.885 (USP <841>)
Limit of nonvolatile residue:	Between 525 mg and 675 mg (USP method)
Alcohol content:	Between 74.0% and 80.0% of C ₂ H ₅ OH, the dilution to approximately 2% alcohol being made with methanol instead of water (USP <611> Method II)
Applications:	According to the United States Food and Drug Administration (FDA): A generally recognized as safe and effective (GRASE) oral mucosal protectant that forms a coating over a wound; protects against further irritation; for temporary use to protect wounds caused by minor irritations or injury; and for protecting recurring canker sores.

MEETINGS AND TRADE SHOWS (North-, Central- and South America)

July 7-9, 2007

IV Feria Agropecuaria y IX Festival Internacional de la Maca Junín [4th Fair & 9th International Festival of Maca in Junín]

Venue: Colegio Estatal 6 de Agosto, Provincia de Junín, Perú

Organizer: Comisión Organizadora Multisectorial

Sponsors: Ministries of Agriculture of Junín Province and of Pasco Province, under the auspices of the Asociación de Productores de Maca Ecológica (Organic Maca Producers Association), the Universidad Nacional del Centro del Perú (National University of Central Perú), and by Agroindustrias Koken del Perú S.R.L.: <http://www.macadelperu.com/>

Contacts: President of Festival: Lic. Alberto Castillo Huerta

Public Relations: Luis Oswaldo Castillo Huerta, Presidente, Asociación de Productores de Maca Ecológica Jr. San Martín N° 588, Junín, Perú

TEL: +51-(0)64-34-4313 / FAX: +51-(0)-34-4060

E-MAIL: fimaca2006@hotmail.com or fimaca2006@yahoo.es

WEB: http://www.minag.gob.pe/calendario_ferias.shtml?x=70377

Exhibitor profile: Maca growers and raw material suppliers, manufacturers and marketers of maca products, traditional healers, and wholesale distributors of botanical raw materials and finished products. Exhibitors also display products made from other Peruvian botanicals.

July 9-13, 2007

TRAINING COURSE: QUALITY CONTROL OF MEDICINAL AND AROMATIC PLANTS AND THEIR PRODUCTS IN THE CARIBBEAN REGION

Venue: Port of Spain, Trinidad and Tobago

Organizers: Caribbean Herbal Business Association (CHBA), Trinidad and Tobago and International Centre for Science and High Technology (ICS) United Nations Industrial Development Organization (UNIDO), E-MAIL: elisa.roa@ics.trieste.it

WEB: http://www.ics.trieste.it/ActivityDetails.aspx?pcode=2.3&activity_id=493

Main topics: Good Collection Practices of MAPs and their Identification; Good Cultivation Practices and Post Harvest Technology for MAPs; Organoleptic, Macroscopic and Microscopic Examination for Authentication of MAPs; Extraction Methods and their Standardization for MAPs; Determination of Pesticide Residues in MAPs; Determination of Heavy Metals in MAPs and their Products; Good Manufacturing Practices for Production of Herbal Drugs.

Objectives: To assist SMEs, crude drug traders, regulatory personnel, faculty members from institutes of traditional medicines and pharmaceutical sciences to acquire knowledge, skill and information for improving their medicinal plant product compliance to quality parameters and to generate awareness about regulatory aspects of herbal medicine.

July 14, 2007

PLANTING THE FUTURE: A CONFERENCE ON THE CULTIVATION, PRESERVATION & USES OF NATIVE MEDICINAL PLANTS

Venue: Herb Pharm Farm, 20260 Williams Highway, Williams Oregon 97544 USA

Organizer: United Plant Savers (UpS)

Sponsors: Herb Pharm, Pacific Botanicals, Horizon Seeds

Contact: United Plant Savers, PO Box 400, East Barre, Vermont 05649 USA

WEB: <http://www.herb-pharm.com/plantingthefuture.pdf>

July 31 - August 3, 2007

51st INTERNATIONAL HOP GROWERS CONVENTION

Venue: Yakima, Washington

Host: Hop Growers of America (HGA), PO Box 928, Yakima, Washington 98909 USA

TEL: 509.248.7043 / FAX: 509.248.7044 / E-MAIL: tammy@usahops.org

WEB: <http://www.hmeli-giz.si/ihgcdoc/4-2007%20Congress%20Preliminary%20Schedule.pdf>

August 12-16, 2007

3rd INTERNATIONAL SEABUCKTHORN ASSOCIATION CONFERENCE (ISA2007): PROMOTING SEABUCKTHORN INDUSTRY WORLDWIDE - OPPORTUNITIES AND CHALLENGES

Venue: Loews Le Concorde Hotel, Quebec City, Province of Quebec, Canada

Organizers: Laval University Institute of Nutraceuticals and Functional Foods and the Quebec Seabuckthorn Growers' Association

Sponsor: International Seabuckthorn Association

E-MAIL: information@inaf.ulaval.ca

WEB: http://www.icrts.org/2006/ISA2007Call_for_Abstracts.pdf

Conference Themes: Cultivation and harvesting practices, breeding, processing technologies, chemistry (nutritional, medicinal and cosmetic), product development and marketing (uses of seabuckthorn and its products). There will also be tours to seabuckthorn orchards within 30-minutes drive of the conference site.

October 6, 2007

HAWAI'I PACIFIC ISLANDS KAVA FESTIVAL

Venue: UH Manoa main campus, on the "Mall," Honolulu, Hawai'i

Contact: Awa Development Council, PO Box 26344, Honolulu Hawai'i 96825

FAX: (808) 395-3772 / TEL: (808) 256-5605 / E-MAIL: secy.adc@gmail.com

WEB: <http://awadevelopment.org/kavafestival>

October 7, 2007

6th ANNUAL CATSKILL MOUNTAIN GINSENG / MEDICINAL HERB FESTIVAL

Venue: Historic Catskill Point in Greene County, New York USA

Sponsors: Heart of Catskill Association and Cornell Cooperative Extension of Greene County.

Contact: Bob Beyfuss at (518) 622-9820, E-MAIL: rlb14@cornell.edu

October 12-16, 2006

IX Festival internacional de la Maca "Meseta del Bombón" 2007

Venue: Yanacancha, Pasco, Perú

Organizer: Comisión Organizadora Multisectorial, Gobierno Regional y DRA Pasco, Ministerio de Agricultura. República del Perú

WEB: http://www.minag.gob.pe/calendario_ferias.shtml?x=70418

November 6-8, 2007

SUPPLY SIDE WEST INTERNATIONAL TRADE SHOW AND CONFERENCE

Venue: Venetian Hotel and Sands Exposition Center, Las Vegas, USA

Organizer: Virgo Publishing, Phoenix, Arizona USA

Attendee: Marsha-Gail Henderson at 1-800-454-5760

Exhibitor: Todd Willis at 480-990-1101, ext. 1171

WEB: <http://www.supplysideshow.com/west>

November 7-9, 2007

INTELLECTUAL PROPERTY RIGHTS SEMINAR AND BUSINESS OPPORTUNITIES IN THE HERBAL INDUSTRY

Venue: Jamaican Herbal Business Association (JHBA)

Organizer: Caribbean Herbal Business Association (CHBA), #3 Herbert Street, St. Clair, Port of Spain, Trinidad, West Indies

WEB: <http://www.caribbeanherbs.org>

January 2008

8th INTERNATIONAL CONFERENCE ON HERBAL MEDICINE IN THE CARIBBEAN: Building Alliances for a better Caribbean Herbal Industry

Organizers: Caribbean Herbal Business Association (CHBA) and Caribbean Association of Researchers and Herbal Practitioners (CARAPA)

Venue: Trinidad and Tobago

Contact: Ms. Karen Lee Lum: chba@iicacarc.org

WEB: <http://www.caribbeanherbs.org>

WESTERN EUROPE

GERMANY

GOVERNMENT STUDY RECOMMENDS INCREASED MEDICINAL PLANT CULTIVATION IN GERMANY

Berlin: On 24 May 2007 at a BMELV (German Federal Ministry of Food, Agriculture and Consumer Production) symposium on the topic “*Renewable Resources: Which Markets Have a Future?*,” an address was given by Parliamentary Secretary Dr. Peter Paziorek on the results of a study that was commissioned by the BMELV. The BMELV had commissioned FNR (German Agency for Renewable Resources) to conduct a three-phase market analysis of the German renewable resources sector. In the second phase of the project several promising markets were analyzed including medicinal herbal products. The third phase of the study provides recommendations and proposed long-term promotion strategies for the selected market segments. Dr. Paziorek stated that the medicinal herbal sector is an especially interesting market in Germany. Demand for medicinal plants by Germans has increased significantly because increasingly the buying public is demanding plant-based medicines, cosmetics, and health foods. The authors of the study predict that the market for these products will increase at about 10% annually. For a variety of reasons, the German herb market up to now has been supplied predominantly with imported botanical raw materials. Raw material (quality standards) requirements are increasing however and customers are demanding products with documentation. The shift to this higher value market segment offers German farmers a good opportunity to win back market share. A common effort is necessary in order to move this sector ahead. Options in this area range from the support of fewer stages in the value chain up to a comprehensive program for increased competitiveness, which comprises all stages of value adding and a comprehensive spectrum of medicinal plants for German farmers. In June, Dr. Paziorek will convene a meeting of experts in order to discuss the overall larger project in detail.

SOURCE: Rede des Parlamentarischen Staatssekretärs Dr. Peter Paziorek: Symposium “Nachwachsende Rohstoffe: Welche Märkte haben Zukunft?” des BMELV. Berlin, Deutschland: Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz (BMELV). 24 May 2007.

PEPPERMINT CULTIVATION INCREASING IN GERMANY

The cultivation of peppermint leaf (*Mentha × piperita*) in Germany has a very long tradition. Increased industrialization in Germany as well as increased cultivation abroad however led to a decline in its agricultural importance over the past century. Today the primary cultivation regions for local demand are situated in Southern- and Eastern European countries. Since the mid-1980’s however the area of land in Germany under peppermint cultivation has again been increasing with the benefit of modern harvest- and post- harvest processing methods. At the moment, there are about 400 hectares of peppermint acreage in Germany with the largest areas in the States of Thuringia, Palatinate and Bavaria.

SOURCE: Wirtschaftsvereinigung Kräuter- und Früchtetee e.V. (WKF). Kräuteraanbau in Deutschland. Hamburg, Germany: WKF. May 2007: <http://www.wkf.de/>

UNFAVORABLE WEATHER IN 2006 BLAMED FOR SLIGHT DECLINE IN HERBAL TEA CONSUMPTION

In May 2007, the German Herbal- and Fruit Tea Trade Association (WKF) published a market report citing hot weather as the reason for a slight decline in herbal- and fruit tea consumption in Germany during 2006. A total of 37,306 tons of herbal- and fruit teas were sold in Germany in 2006, a 3.8% drop compared to previous year (2005: 38,780 MT). See Table 1. The entire hot beverage market suffered due to the hot summer and mild autumn and winter and sales fell slightly below expectations. While nearly all varieties of teas showed declines in consumption, only peppermint leaf (*Mentha × piperita*) showed a good increase of 4.3% over 2005 and fennel fruit (*Foeniculum vulgare*) tea remained stable with a slight increase of 0.2%. Dr. Monika Beutgen, Director of the WKF said that after a very successful preceding year fluctuations are normal. From 2002 to end of 2006 total sales volume actually increased by 3,320 MT or about 10%. The WKF sees a potential for sustainable future growth due to the rapidly increasing problem of Germans becoming overweight because herbal- and fruit teas are practically calorie-free and provide an ideal alternative to sweetened beverages. The trend in 2006 continued to favor single-herb teas such as peppermint leaf, chamomile flower (*Matricaria recutita*) and rooibos herb (*Aspalathus linearis*) accounting for

about 60% (2005: 59%) of the over 12.4 billion cups of herbal tea consumed in Germany (Note: calculated on the basis of 3g of herbs per cup of tea). The other 40% was flavored and unflavored herbal tea mixtures (2005: 41%). Single-herb teas compared against herbal mixtures showed less fluctuation with a decline of 3.1%. Next to peppermint leaf tea, which at 6,114 MT (2005: 5,862) is the undisputed number one herbal tea in Germany, the slight 0.2% increase in consumption of fennel fruit tea made it the number 3 herbal tea in 2006 and therefore displaced hibiscus & rose hip teas which suffered a 4.4% decline. Germany's number 2 herbal tea remains chamomile flower with 4,464 MT, down 6% from 2005. Although the South African rooibos herb tea, as a single-herb tea, declined by 5.1% to 2,677 MT, it has in the meantime become a component of many herbal tea mixtures. After a big increase in 2005 of 7.5%, herbal tea mixtures declined by 4.8% in 2006 down to 15,009 MT (2005: 15,766 MT). While unflavored herbal tea mixtures remained stable (-0.9%), flavored herbal tea dropped by 6.1% to 11,115 MT. As in the past, flavored herbal teas commanded a 74% share of the herbal tea mixtures market (2005: 75%).

TABLE 1: GERMANY 2006 HERBAL- and FRUIT TEA CONSUMPTION

Type of Herb Tea	2006 in Tons	2006 vs. 2005
Herb- and Fruit Teas TOTAL	37,306	-3.8 %
Single-herb & fruit teas:	22,297	- 3.1 %
Peppermint leaf	6,114	+ 4.3 %
Chamomile flower	4,464	- 6.2 %
Rose hip and/or Hibiscus flower	3,274	- 4.4 %
Fennel fruit	3,938	+ 0.2 %
Rooibos herb	2,677	- 5.1 %
Other single herb teas	1,830	- 17.5 %
Multi-herb & fruit tea mixtures:	15,009	- 4.8 %
flavored	11,115	- 6.1 %
unflavored	3,894	- 0.9 %

For 2007, the WKF expects a market recovery. Not only due to the introduction of new exotic and lifestyle-oriented varieties of herbal teas but also due to the great potential for calorie-free beverages for the increasingly overweight German population. Also because drinking herbal teas is more economical than drinking coffee or mineral water.

SOURCE: Wirtschaftsvereinigung Kräuter- und Fruchttetee e.V. (WKF). Marktreport: Wärme sorgt für leichten Absatzrückgang in 2006. Hamburg, Germany: WKF. May 2007: <http://www.wkf.de/>

EDQM PUBLISHES DRAFT HERBAL QUALITY CONTROL MONOGRAPHS FOR PUBLIC COMMENT

The European Directorate for the Quality of Medicines & Healthcare (EDQM) has published several more draft medicinal herb quality control monographs, including for some Chinese medicinal herbs (e.g. astragalus root and eucommia bark) for public comment prior to finalization for entry into the official European Pharmacopoeia (PhEur). The deadline for comments is 30 September 2007:

- Astragalus root (*Astragalus membranaceus* (FISCH. ex LINK) BUNGE)
- Eucommia bark (*Eucommia ulmoides* OLIV.)
- Melissa leaf (*Melissa officinalis* L.)
- Melissa leaf dry extract quantified
- Olive leaf (*Olea europaea* L.) dry extract
- Peppermint leaf (*Mentha × piperita* L.) dry extract

SOURCE: European Pharmacopoeial Commission. Draft Monographs and General Texts for Comment. *Pharmeuropa* 19.3. July 2007.

HMPC RELEASES FOUR EUROPEAN COMMUNITY HERBAL MONOGRAPHS FOR PUBLIC COMMENT

The Committee on Herbal Medicinal Products (HMPC) is responsible for establishing Community herbal monographs, which have relevance for the registration and authorization of herbal medicinal products. The monographs are based on the available scientific data (well-established use) or on historic use in the European Community (traditional use). The HMPC released four more draft medicinal herb monographs on 08 May 2007 with a comment deadline of 15 August 2007:

- ❑ Birch leaf (*Betula pendula* Roth; *Betula pubescens* Ehrh.):
http://www.emea.europa.eu/pdfs/human/hmpc/betulae_folium/26001906en.pdf
- ❑ Melissa leaf (*Melissa officinalis* L.):
http://www.emea.europa.eu/pdfs/human/hmpc/melissae_folium/534107en.pdf
- ❑ Peppermint essential oil (*Mentha x piperita* L.):
http://www.emea.europa.eu/pdfs/human/hmpc/menthae_piperitae_aetheroleum/34946606en.pdf
- ❑ Thyme herb (*Thymus vulgaris* L.; *Thymus zygis* L.):
http://www.emea.europa.eu/pdfs/human/hmpc/thymi_herba/23411306en.pdf

SOURCE: European Medicines Agency (EMA). Publication and consultation of Community monographs. 8 May 2007: <http://www.emea.europa.eu/htms/human/hmpc/hmpcmonographsdraft.htm>

BOTANICAL RAW MATERIALS (Indicative prices: USD \$ / kg)

Product	Source	Price	Destination
Caraway fruit (<i>Carum carvi</i>)	Holland	1.2	ex store
Echinacea purpurea root (<i>E. purpurea</i>)	Europe	6.71	SPOT UK
Rosemary leaf (<i>Rosmarinus officinalis</i>)	Spain	1.87	SPOT New York
Saffron stigma (<i>Crocus sativus</i>)	Spain	2645	SPOT New York

Quality Standards: Standards for most of the above listed medicinal herbs are published in the European Pharmacopoeia (PhEur).

BOTANICAL EXTRACTS & OILS (Indicative prices: USD \$ / kg)

Product	Standardization	%	Price
Bilberry fruit	Anthocyanins	25	500-700
Devil's claw secondary tuber	Harpagoside	1.5	55-70
Echinacea purpurea root	Phenols / Dodecatetranic acid isobutylamides	4.0/0.025	35-50
Ginkgo leaf	Flavonglycosides/Lactones	24/6	200-300
Milk thistle fruit	Silymarin	80	95-140
Nettle root	Scopoletin/ β -sitosterol	30ppm/0.8	65-75
Saw palmetto fruit	Total Fatty Acids	85-95	60-90
Tribulus terrestris	Protodioscin	10	95
Valerian root dry extract	Valerenic acids	0.25-0.35	55-75

**PRODUCT SPECIFICATIONS
RHATANY TINCTURE**

Product of the Switzerland (raw material from Peru)

Product:	Rhatany Tincture 1:5
Botanical name:	<i>Krameria triandra</i> Ruiz and Pavon (Fam. Krameriaceae)
Pharmacopoeial name:	Ratanhia tincturae PhEur
Plant part used:	Dried, underground organs
Extraction solvent:	Ethanol (70 per cent V/V)
Drug-to-extract ratio:	1 : 5 (w/v)
Storage:	Store in tight, light-resistant containers, and avoid exposure to direct sunlight and excessive heat. Plastic containers are not recommended.
Labeling:	Label it to indicate the ratio of starting material to extraction liquid or of starting material to final tincture; and the ethanol content in per cent V/V in the final tincture.

Physical Analysis

Appearance:	Liquid
Color:	Reddish-brown
Odor:	Nearly odorless
Taste:	Characteristic, astringent and slightly bitter

Chemical Analysis

Identification: As determined by Ratanhia tincturae TLC ID Test (PhEur 2.2.27)
Tannins: Minimum 1.0% m/m, expressed as pyrogallol
Ethanol content: Between 63% V/V and 67% V/V (PhEur 2.9.10)
Methanol and 2-propanol: Maximum 0.05% V/V of methanol and maximum 0.05% V/V of 2-propanol

Applications: As a component of oral care products (mouth spray, mouth wash, toothpaste). According to the German Commission E: 5-10 drops of tincture in 1 glass of water, 2-3 times daily for topical treatment of mild inflammation of the oral and pharyngeal mucosa.

MEETINGS AND TRADE SHOWS WESTERN EUROPEAN COUNTRIES

June 19-20, 2007

SWISS INVEST FORUM 2007 AFRICA AND THE MIDDLE EAST FINANCING AND MARKETING SEMINAR: MEDICINAL PLANTS, BIOPROSPECTING

Venue: Kongresshaus Zürich, Gotthardstrasse 5, Postfach 2523, 8022 Zurich, Switzerland
TEL: +41.44.206.3636

Organizer: Swiss Organisation for Facilitating Investments (SOFI), Stauffacherstrasse 45
8026 Zurich 4, Switzerland, TEL: +41.1.249.3050

Contact: Ivan Jabbour, Regional Manager, North Africa and Middle East, SOFI
TEL: +41.44.249.2620

E-MAIL: ivan.jabbour@sofi.ch

WEB: <http://www.swissinvestforum.ch>

June 24-28, 2007

MEETING OF THE SCIENTIFIC COMMISSION OF THE INTERNATIONAL HOP GROWERS CONVENTION

Venue: Hotel Rad, Lindauer Strasse 2, D-88069 Tett nang / Bodensee, Germany

Contact: Dr. E. Seigner, Secretary of the Scientific Commission
TEL: +49 / (81.61) 71.3601
FAX: +49 (81.61) 71.5227

E-mail: Elisabeth.Seigner@LfL.bayern.de

WEB: <http://www.hmelj-giz.si/ihg/activ/jun07.htm>

In addition to the scientific programme, there will be a visit of the Hop Museum and post-conference tours of the Hop Laboratories in Freising, the Hop Research Center at Huell, Hop processing firm Hallertauer Hopfenveredelungsgesellschaft (Hopsteiner) in Au, and the hop processing firm and trial brewery St. Johann.

September 2-6, 2007

55th ANNUAL MEETING AND INTERNATIONAL CONGRESS OF THE SOCIETY FOR MEDICINAL PLANT RESEARCH

Venue: Graz, Austria

Organizer: Scientific and Organizing Committees of the Society for Medicinal Plant Research

Contact: Semaco GmbH, Firmianstraße 3, 5020 Salzburg, Austria
TEL: + 43 662 826 878 / FAX: + 43 662 826 8784

E-MAIL: congress@semaco.co.at

WEB: <http://www.ga2007.org>

The Meeting will include workshops of the permanent committees on herbal medicinal products:

- Biological and Pharmacological Activity of Natural Products (H. Winterhoff)
- Breeding and Cultivation of Medicinal Plants (C. Franz)
- Manufacturing and Quality Control of Herbal Remedies (B. Meier)
- Regulatory Affairs on Herbal Medicinal Products (A. J. Vlietinck)

September 9-12, 2007

38th INTERNATIONAL SYMPOSIUM ON ESSENTIAL OILS

Venue: Karl-Franzens-University Graz, Austria

Organizers: University of Veterinary Medicine Vienna, Institute for Applied Botany and Pharmacognosy, Joanneum Research Graz, Institute of Sustainable Techniques and Systems, and Karl-Franzens-University Graz, Institute of Pharmaceutical Sciences

Contact: The Organizing Secretariat: SEMACO GmbH, Firmianstr. 3, 5020 Salzburg, Austria
TEL: +43 / 662 / 82 68 78 / FAX: +43 / 662 / 82 68 78 4

E-MAIL: congress@semaco.co.at

WEB: <http://www.iseo2007.org>

Main topics will include regulatory affairs for essential oils, among others, and a workshop on recent developments in analytical and extraction technology. Also a full-day excursion "Extraction/Production Technology" visit of the supercritical fluid extraction and powder technology company Natex Prozesstechnologie GesmbH in Ternitz (<http://www.natex.at>) and the research center of Joanneum Research for solid-liquid extraction and distillation in Hartberg (<http://www.joanneum.at>).

September 13-16, 2007

SANA: 19th INTERNATIONAL EXHIBITION OF NATURAL PRODUCTS

Venue: Bologna Fairground, Bologna, Italy

Organizer: SANA S.r.l., via San Vitore, 14 20123 Milan, Italy

Contact: BolognaFiere spa, Piazza Costituzione, 6, I - 40128 Bologna
TEL: +39/051/282.111 / FAX: +39/051/63.74.031

E-MAIL: sana@bolognafiere.it

WEB: <http://www.sana.it>

Exhibitor Profile: Herbs, officinal plants and essences, herbal and phytotherapeutic products, organic products, diet products, natural products, and more.

October 9-10, 2007

AESGP CONFERENCE ON HERBAL (MEDICINAL) PRODUCTS AND FOOD SUPPLEMENTS

Venue: Brussels, Belgium

Contact: Contact: AESGP, 7, avenue de Tervuren, B-1040 Brussels / Belgium
Tel +32 (0)2/ 735 51 30 / Fax +32 (0)2/ 735 52 22

E-mail: s.azzoug@aesgp.be

WEB: <http://www.aesgp.be/Brussels2007/ProgrammeBrussels2007.pdf>

October 30-November 1, 2007

NATURAL INGREDIENTS EXHIBITION AND CONFERENCE

Venue: ExCel London, One Western Gateway, Royal Victoria Dock, London, E16 1XL, UK

Organizer: CMP Information, a division of United Business Media

Contact: CMP Information, PO Box 200, 3600 AE Maarssen, The Netherlands
TEL: + 31 346 559 444 / FAX: + 31 346 573 811

WEB: <http://www.ni-events.com>

Confirmed exhibitors of medicinal plants or extracts include Exxentia, Indo World Trading Corporation, Phytoline Corporation Ltd., Phytotrade Africa, Sinochem Qingdao Co. Ltd., Vidya Herbs PVT Ltd., among others.

October 31, 2007

2nd WORLD ONION CONGRESS held concurrently with 5th INTERNATIONAL ISHS SYMPOSIUM ON EDIBLE ALLIACEAE (ISEA)

Venue: Congress Center De Pijler, Lelystad, The Netherlands

Organizers: World Onion Congress, World Allium Association, ISHS

Contact: World Allium Association, P.O. Box 822, 3700 AV ZEIST, The Netherlands
TEL: 0031 30 6933 489 / FAX: 0031 30 6917 394

E-MAIL: info@worldalliumassociation.com

WEB: <http://www.europoint-bv.com/events/?worldalliumassociation/104>

February 18-21, 2008

18. BERNBURGER WINTERSEMINAR und 5. FACHTAGUNG ARZNEI- UND GEWUERZPFLANZEN: QUALITAET, WIRTSCHAFTLICHKEIT UND NACHHALTIGKEIT

[18th Annual Bernburg Winter Seminar and 5th Seminar for Medicinal and Aromatic Plants: Quality, Profitability and Sustainability]

Venue: Landesanstalt für Landwirtschaft, Forsten und Gartenbau Sachsen-Anhalt bzw. Mensa der Fachhochschule Anhalt, Bernburg-Strenzfeld, Sachsen-Anhalt

Organizers: Deutscher Fachausschuss für Arznei-, Gewürz- und Aromapflanzen, Ministerium für Landwirtschaft und Umwelt Sachsen-Anhalt, Landesanstalt für Landwirtschaft, Forsten und Gartenbau Sachsen-Anhalt, SALUPLANTA e.V.

Contact: Frau Sybille Richter, Landesanstalt für Landwirtschaft, Forsten und Gartenbau Sachsen-Anhalt, Strenzfelder Allee 22, 04606 Bernburg-Strenzfeld
TEL: +49 03471 334 140 / FAX: +49 03471 334 105

E-MAIL: Sybille.Richter@lwg.mlu.lsa-net.de

WEB: http://lsa-st23.sachsen-anhalt.de/lwg/aktuelles/ft_ws_ag_08/1zirkular_08.pdf

The scientific programme will encompass all areas of medicinal and aromatic plant production with main themes including plant breeding, cultivation techniques, mechanization and post-harvest technologies, regulations, quality assurance and applications.

February 21-24, 2008

BIO-FACH WORLD TRADE FAIR FOR ORGANIC FOOD AND NATURAL PRODUCTS

Venue: Exhibition Centre Nuremberg, Germany

Patron: International Federation of Organic Agriculture Movements (IFOAM)
TEL: +49 (0)9 11.8606-0 / FAX: +49 (0)9 11.86.06-82-28

E-MAIL: biofach@nuernborgmesse.de

WEB: <http://www.biofach.de/>

Although the BIO-FACH trade show is primarily for buyers & sellers of certified organic finished products, there will be many exhibitors of bulk botanical raw materials and extracts.

March 7-9, 2008

EXPOVITAL 2008: SALÓN DE LA HERBODIETÉTICA, SALUD, PRODUCTOS NATURALES Y ECOLÓGICOS

Venue: Pabellón nº 2. IFEMA, Madrid, España

Organizers: Asociación Española de Fabricantes de Preparados Alimenticios (AFEPADI), Dietéticos y Plantas Medicinales, Federación Nacional de Dietéticas y Herbolarios (FENADIHER), Asociación Profesional de Herbolarios y Dietética de Madrid (APRODYHEM).

Contact: INTERALIA, Ferias Profesionales y Congresos, S.A.

WEB: <http://www.interalia.es/www.expovital.net/default.htm>

Exhibitor profile: Medicinal plants, natural agricultural products, certified organic products, natural fibers, natural cosmetics, and natural therapies.

November 11-13, 2008

HEALTH INGREDIENTS EUROPE 2008

Venue: Paris Nord, Villepinte - Hall 1 & 2 BP 60004, 95970 Roissy CDG Cedex

Organizer: CMP Information, a division of United Business Media

Contact: CMP Information, PO Box 200, 3600 AE Maarssen, The Netherlands
TEL: + 31 346 559 444 / FAX: + 31 346 573 811

E-MAIL: Fi@cmpinformation.com

WEB: <http://www.hi-events.com/>

Exhibitor profile: Suppliers of beneficial algae, fats and oils, flavors and aromas, fruit and vegetable products, ginkgo extract, ginseng, organic ingredients, phytochemicals, plant oestrogens, soy ingredients, spirulina, among other natural and herbal ingredients.

EASTERN EUROPE

EASTERN EUROPEAN MAP EXPORT TOTALS

As of June 2007, about 60% of Eastern European countries have reported their total 2006 export data. However some of the largest exporters of medicinal and aromatic plants (MAPs) in Eastern Europe have not yet reported, most notably Bulgaria, Hungary, Poland and Russian Federation. Of the 14 reporting countries listed in the below table, for the 8 selected Harmonized System (HS) Codes, Albania reported the largest export quantity of 8,254,970 kg and Romania ranked 2nd with an export total of 7,965,505 kg. Please note that these 8 HS Codes do not capture all MAPs and extracts but they do represent a large portion of the overall trade. Most of Albania's MAP exports (96%) were classified under HS1211 with main destinations of Germany (3,374,749 kg), USA (1,017,751 kg), Turkey (717,488 kg), France (671,733 kg), Italy (566,423), and Macedonia (488,100 kg). On the other hand Romania classified most of its MAP exports (86%) under HS0909 with main destinations of Sri Lanka (3,336,386 kg), South Africa (1,466,170 kg), UK (378,100 kg), Germany (368,872 kg), Bulgaria (305,510 kg), Austria (227,920 kg), and France (101,160 kg). The table below shows the total quantities in kilograms (kg) for selected general categories of MAPs and extractives thereof. The 4-digit HS Codes used in the table represent the following categories of MAPs:

- HS 0904: Includes fruits of the *Capsicum*, *Pimenta* and *Piper* genera
- HS 0909: Includes anise fruit (*Pimpinella anisum*), caraway fruit (*Carum carvi*), coriander fruit (*Coriandrum sativum*), cumin fruit (*Cuminum cyminum*), fennel fruit (*Foeniculum vulgare*) and juniper fruit (*Juniperus communis*), among others
- HS 0910: Includes ginger rhizome (*Zingiber officinale*), saffron stigma (*Crocus sativus*), thyme herb (*Thymus vulgaris*), turmeric rhizome (*Curcuma longa*), and wild thyme herb (*Thymus serpyllum*), among many others
- HS 1210: Hop strobile (*Humulus lupulus*)
- HS 1211: Includes licorice root (*Glycyrrhiza* spp.), mint leaf (*Mentha* spp.), rosemary leaf (*Rosmarinus officinalis*), sage leaf (*Salvia* spp.), among hundreds of other medicinal herbs
- HS 1301: Includes tree gums and other gums and oleoresins
- HS 1302: Includes saps and extracts of MAPs
- HS 3301: Includes all essential oils obtained from MAPs

2006 TOTAL MAP EXPORTS / EASTERN EUROPEAN COUNTRIES / Quantities in Kilograms (kg)								
COUNTRY	HS0904	HS0909	HS0910	HS1210	HS1211	HS1301	HS1302	HS3301
Albania	0	16,929	216,285	40,636	7,963,944	252	12,011	4,913
Belarus	529	0	6	5,504	235,876	297,982	11,587	216
BiH	13,087	352,451	16,208	0	615,386	0	20	2,402
Croatia	167,274	4,629	45,140	569	1,533,385	550	3,339	9,649
Cyprus	0	0	2,863	0	152,853	21,754	0	74,958
Estonia	245,608	14,871	130,936	218	10,438	0	321,278	170
Finland	41,929	?	100,273	0	8,744	78	63,185	25,235
Latvia	34,927	14,865	198,473	20,790	1,946,515	0	10,876	2,084
Lithuania	127,448	1,079,303	218,979	2,162	242,956	9,374	154,375	243,084
Macedonia	26,122	1,049,389	4,142	0	810,249	2,174	2,779	1,611
Moldova	24	55,450	0	0	174,149	256	0	120,204
Romania	7,184	6,830,597	7,055	0	958,804	979	46,950	113,936
Serbia	2,161,262	638,334	94,942	19,287	1,107,124	241	14,121	12,040
Slovenia	17,332	19,085	18,222	1,530,910	89,788	2,736	50,741	133,347

SOURCE: United Nations Commodity Trade Statistics Database.

BULGARIA

FINANCIAL SUPPORT FOR ORGANIC HERB PRODUCTION

Bulgaria's "Strategy Plan for Development of Organic Farming in Bulgaria 2007-2013" consists of tasks and activities for improving the development of the market opportunities for organic farming and also plans for 8% of the cultivated agricultural lands to be certified organic by 2013. The financial support of organic farming as a priority in the implementation of the EU quality support schemes 2007-2013 in Bulgaria is 780 million Euros. Through the SAPARD Program (Special Accession Programme for Agriculture and Rural Development) 114 projects were approved with a total funding amount of 7,081,994 Bulgarian leva (BGN) (= \$4,881,104 USD). The number of the certified organic producers in Bulgaria has increased and since the start of 2007 there are over 150 new producers. Most of the organic products in Bulgaria are produced with existing export opportunities. Currently Germany is the main destination for Bulgarian exports of medicinal herbs, spices, honey, essential oils, and vegetables. Herbs and spices are also exported to the USA and Holland and rose essential oil to France and Holland. Organic farming in Bulgaria is developing mainly in the framework of cooperation of with Switzerland.

SOURCE: Bulgarian Chamber of Commerce and Industry. Bulgaria approved plan for development of organic farming. *INFOBUSINESS*. March 2007, Number 3.

PRICES AND PRICE INDICES FOR AGRICULTURAL PRODUCTS FOR FIRST QUARTER 2007

The Republic of Bulgaria National Statistics Institute has published average prices and price indices for 1st quarter 2007 for agricultural products including selected high volume Bulgarian MAPs. The average price for hop strobile (*Humulus lupulus*) was 7.57 leva/kg (= USD \$5.22/kg), lavender flower (*Lavandula angustifolia*) 0.34 leva/kg (= USD \$0.23/kg), linden flower (*Tilia* spp.) 4.86 leva/kg (= USD \$3.35/kg), Sicilian sumac fruit (*Rhus coriaria*) 1.00 leva/kg (= USD \$0.69 /kg), and spearmint leaf (*Mentha spicata*) 1.90 leva/kg (= USD \$1.31 /kg).

SOURCE: National Statistics Institute. Prices and price indices for agricultural products and live animals for first quarter 2007. Sofia, Bulgaria: National Statistics Institute. 23 May 2007.

FINLAND

UPDATE ON WILD COLLECTED MEDICINAL PLANTS OF FINLAND

The recent "Tradition to Technology" Conference (10-13 May in Saskatchewan, Canada) featured sessions on market trends including a plenary lecture by Simo Moiso, MSC., eMBA, Executive Director of the Arctic Flavours Association (Suomussalmi, Finland) entitled "Promoting Non-Timber Forest Products (NTFP) in Finland." Mr. Moiso also made a presentation entitled "Current Situation and Future Prospects for NTFP Markets: The Nordic Perspective."

The Arctic Flavours Association (AFA) is a trade association with 120 member firms that promotes Finnish NTFPs with a main goal to increase the consumption of healthy forest berries, mushrooms and herbs, both at a national and international level. The AFA reports that the wild collecting of forest fruits in Finland is valued at 200 million Euros annually, wild mushrooms at 100 million, and wild medicinal herbs contribute about 20 million Euros annually to the Finnish economy. With over 70% of its land area covered in forest, Finland is the most forest covered country in Europe.

Mr. Moiso provided data on the most important wild collected plants in Nordic countries. For example in Finland about 15 million kilos of bilberry fruit (*Vaccinium myrtillus*) are wild harvested annually, most of which are consumed by the collectors but of which between 3 to 5 million kilos are processed commercially. Bilberry fruit is collected from mid-July until the start of September. In the Nordic countries, about 35 million kilos of berries are wild collected from forests annually with Sweden and Finland increasing their exports of bilberry fruit. Other wild food and medicinal fruits collected in the region include lingonberry (*Vaccinium vitis-idaea*) and sea buckthorn (*Hippophae rhamnoides*), among others. Sea buckthorn, found in the Åland Islands and open shores of the northern Baltic Sea, is collected during September and October.

In addition to wild collection of bilberry, lingonberry, and sea buckthorn, nearly 30 species of medicinal and aromatic plants (MAPs) are collected in Finland including angelica (*Angelica archangelica* subsp. *archangelica*), ash weed (*Aegopodium podagraris*), chamomile (*Matricaria recutita*), dandelion (*Taraxacum officinale*), European goldenrod (*Solidago virgaurea*), fireweed (*Epilobium angustifolium*), heather (*Calluna vulgaris*), juniper (*Juniperus communis*), lady's mantle (*Alchemilla* spp.), meadowsweet (*Filipendula ulmaria*), mountain ash (*Sorbus aucuparia*), raspberry (*Rubus idaeus*), red clover (*Trifolium pratense*), stinging nettle (*Urtica dioica*), wild strawberry (*Fragaria vesca*), and yarrow (*Achillea millefolium*), among others.

For more information on wild collection of forest fruits and herbs in Finland send an e-mail to AFA Executive Director Simo Moisio at simo.moisio@arctic-flavours.fi or visit the AFA website, which is provided in English, Finnish, French, German, Russian and Swedish: <http://www.arctic-flavours.fi>.

Source: Moisio S. Current Situation and Future Prospects for NTFP Markets: The Nordic Perspective. In: Traditional to Technology Conference. 10-13 May 2007.

BOTANICAL RAW MATERIALS & OILS (Indicative prices: USD \$ / kg)

Product	Source	Price	Destination
Caraway fruit (<i>Carum carvi</i>)	Eastern Europe	1.15	for Rotterdam
Coriander fruit (<i>Coriandrum sativum</i>)	Russia	0.85	CIF
Coriander fruit essential oil (<i>Coriandrum sativum</i>)	Russia	40	SPOT Hamburg
Fenugreek seed (<i>Trigonella foenum-graecum</i>)	Turkey	0.99	Spot New York
Linden flower (<i>Tilia</i> spp.)	Bulgaria	3.35	Bulgaria
Spearmint leaf (<i>Mentha spicata</i>)	Bulgaria	1.31	Bulgaria

* wild collected – ** certified organic

Note: Monographs containing quality standards and tests for most the above-listed herbs and essential oils are published in either the Farmakopea Polska VI (2002), the Pharmacopoeia Hungarica VII (1986), or in the State Pharmacopoeia of the Union of Soviet Socialist Republics XI (1987-1990). Most also appear in the current edition of the European Pharmacopoeia (PhEur V).

**PRODUCT SPECIFICATIONS
CALENDULA TINCTURE**

Product of Eastern European Countries

Product:	Calendula Tincture 1:5
Botanical name:	<i>Calendula officinalis</i> L. (Fam. Asteraceae)
Pharmacopoeial name:	Calendulae tincturae DAC
Plant part used:	Fully opened flowers which have been detached from the receptacle of the cultivated, double-flowered varieties
Extraction solvent:	Ethanol (70 per cent V/V)
Drug-to-extract ratio:	1 : 5 (w/v)
Production:	Calendulae tincturae is made from 1 part dried calendula flowers and 5 parts ethanol 70% (V/V) according to the methods described in the European Pharmacopoeia (PhEur) "extracts" monograph, preferably the percolation method.
Storage:	Store in tightly closed containers in a dry location at room temperature (+15°C to +25°C) protected from light. Plastic containers are not recommended.
Labeling:	Label it to indicate the ratio of starting material to extraction liquid or of starting material to final tincture; and the ethanol content in per cent V/V in the final tincture.
Physical Analysis	
Appearance:	Liquid
Color:	Brownish yellow
Odor:	Aromatic
Taste:	Somewhat bitter and salty
Miscibility:	Completely miscible in water
Chemical Analysis	
Identification:	As determined by TLC Identification Test (DAC 2.2.27)
Flavonoids:	Not less than 0.1% Flavonoids, calculated as hyperoside (DAC assay)
Ethanol content:	Between 64% V/V and 69% V/V (DAC 2.9.10)
Methanol and 2-propanol:	Maximum 0.05% (V/V) of methanol and maximum 0.05% (V/V) of 2-propanol (DAC 2.9.11)
Dry residue:	Not less than 4.0% (m/m)
Applications:	As an active component of oral care products (dental oral irrigators, mouth rinse, mouth spray, mouth wash, tooth gel, toothpaste).

MEETINGS AND CONFERENCES EASTERN AND SOUTHEASTERN EUROPE

June 4-6, 2007

43rd ANNUAL MEETING ASSOCIATION OF THE EUROPEAN SELF-MEDICATION INDUSTRY (AESGP)

Venue: Hilt on Warsaw Hotel, Warsaw, Poland
Contact: AESGP, 7, avenue de Tervuren, B-1040 Brussels, Belgium
Tel +32 (0)2/ 735 51 30
Fax +32 (0)2/ 735 52 22
E-mail: s.azzoug@aesgp.be
WEB: <http://www.aesgp.be/Warsaw2007/WarsawProgramme.pdf>

The meeting will include a panel discussion on market developments in the areas of herbal medicines, food supplements, medical devices and cosmetics with presentations by the following:

- ❑ Konstantin KELLER, Chair, Committee on Herbal Medicinal Products, European Medicines Agency (EMA)
- ❑ Basil MATHIOUDAKIS, Head of Unit Food Law, Nutrition and Labeling, DG Health & Consumer Protection, European Commission
- ❑ Leszek BORKOWSKI, Head of the Registration Office, Ministry of Health, Poland
- ❑ Pascal BORDAT, Director of R&D, Laboratoires Pierre Fabre DermoCosmétique
- ❑ Hans van ZONEN, Vice-President Europe Pharmaceuticals, Procter & Gamble

June 13-17, 2007

5th INTERNATIONAL FESTIVAL OF TEA AND MEDICINAL HERBS

Venue: Trg oslobođenja – Alija Izetbegović, Sarajevo, Bosnia & Herzegovina
Organizers: Tea-fest Organizing Committee in cooperation with the Government of Canton Sarajevo, USAID-Linking Agricultural Markets to Producers (USAID-LAMP), City Council of Sarajevo and Municipality of Old Town Sarajevo.
Contact: Mrs. Samira Katica-Arnautović, director of the festival, Lubina 5, 71000 Sarajevo, BiH
TEL: +387.33.236 136
GSM: +387.61.100 415
E-MAIL: info@tea-fest.ba
WEB: <http://www.tea-fest.ba/english>

The aim of the Tea-fest is to provide a forum for networking and consultations among the companies and individuals at the local, regional and international level in the Medicinal Herbs field. The main subjects of the Tea-fest will be „How to promote collaboration among companies and individuals in Bosnia and Herzegovina and the region in the field of Medicinal Herbs and how to increase sales of their products.”

July or August 2007 (dates To Be Determined)

BILBERRY DAYS

Venue: Plav Lake, Montenegro
Supporters: Ministry of Agriculture, Forestry and Water Supply, Republic of Montenegro
Organizers: Ministry of Tourism, Republic of Montenegro

September 10 - October 12, 2007

TRAINING COURSE FOR PERSONS RUNNING HERBAL PHARMACY SHOPS

Venue: Instytut Roślin i Przetworów Zielarskich (Research Institute of Medicinal Plants)
Organizer: Instytut Roślin i Przetworów Zielarskich, ul. Libelta 27 61-707 Poznań
TEL: (61) 665 95 40
FAX: (61) 665 95 51
E-MAIL: kurs@iripz.pl
WEB: <http://www.iripz.pl>

September 23-27, 2007

IFEAT INTERNATIONAL CONFERENCE 2007

Venue: The InterContinental Budapest Hotel, Apaczai Csere J.U. 12-14, Budapest, H-1052 Hungary

Tel: + 36 1 3276 333

Fax: + 36 1 327 6357

Organizer: The International Federation of Essential Oils and Aroma Trades (IFEAT)

Contact: IFEAT Secretariat, GAFTA House, 6 Chapel Place, Rivington Street, London EC2A 3SH

Fax: +44 (0)20 7814 8383

E-MAIL: conference@ifeat.org

WEB: www.ifeat.org

WEB: <http://www.ifeat.org/Budapest2007/PrintableBrochure.pdf>

The conference will include lectures on developments with essential oils with particular reference to the industry in Central and Eastern Europe and the Balkans. There will also be a field trip to essential oil distilleries and plantations near Budapest.

September 23-27, 2007

4th INTERNATIONAL MEDICINAL MUSHROOM CONFERENCE (IMMC4)

Venue: Cankarjev dom Cultural and Congress Centre, Ljubljana, Slovenia

Contact: Prof. Dr. Franc Pohleven, University of Ljubljana Biotechnical Faculty

TEL: +38614231161

FAX: +38614235035

E-MAIL: franc.pohleven@bf.uni-lj.si

WEB: <http://www.immc4.si/>

October 5-7, 2007

ECOLIFE 2007 – 23rd HEALTHY LIFESTYLE AND FOOD FAIR

Venue: "Jaskolka" sport hall, ul. Traugutta 3a, Tarnów, Poland

Contact: POLISH SOCIETY OF HEALTHY LIFE and FOOD PROMOTION, 33-106 Tarnów 8 skr.poczt. 40 ul. Bernardyńska 24

TEL / FAX: (48-14) 626-00-40

WEB: <http://www.zdrowa-zywnosc.pl/>

Exhibitor profile: Apicultural and herbal products, tea, fruits and vegetables, ecological fertilizers, natural cosmetics, fitness and rehabilitation equipment, trade literature, natural medicaments. About 65 exhibitors and 8,000 attendees.

2009 (dates To Be Determined)

FOURTH INTERNATIONAL SEABUCKTHORN ASSOCIATION CONFERENCE (ISA 2009)

Venue: Siberian Fair, Novosibirsk, Russia

Sponsor: International Seabuckthorn Association

WEB: <http://www.sanddorn.net>

CHINA

SUPPLY AND DEMAND

MAP EXPORT TOTALS FOR CHINA, HONG KONG AND SELECTED EAST ASIAN COUNTRIES

As of June 2007 most East Asian countries have not yet reported their total 2006 export data. However, 2006 data is available for People's Republic of China (PRC) and Hong Kong Special Administration Region (SAR) of the PRC, but not for Macao SAR of the PRC or Republic of China (Taiwan). The table below summarizes total 2006 export quantities (kg) for the main categories of medicinal and aromatic plants (MAPs), their extractives and oils, for the PRC and Hong Kong as well as other East Asian countries Mongolia and Republic of Korea (South Korea) and one Southeast Asian country Malaysia. Caution should be exercised when evaluating Hong Kong export data as much of this total may be re-exports.

The PRC is the largest exporter of MAPs, its three highest volume trade categories being HS 0910 (mainly ginger rhizome (*Zingiber officinale*)), HS 0902 (includes all forms of tea leaf (*Camellia sinensis*)), and HS 1211 (includes most medicinal plants; although over 11% of the export value is attributed to ginseng root (*Panax ginseng*) alone). For HS 0910, the PRC exported 291,215,008 kg in 2006, of which over 96% was ginger rhizome alone (280,368,162 kg). Main destinations for Chinese HS 0910 exports were Japan (73,208,328 kg), Pakistan (49,829,728 kg), USA (30,809,083 kg), Malaysia (28,354,405 kg), United Arab Emirates (16,370,840 kg), Saudi Arabia (14,146,300 kg), Bangladesh (13,874,184 kg), UK (9,969,447 kg), South Korea (9,597,311 kg), Canada (8,312,326 kg), and the Netherlands (7,313,502 kg).

For HS 0902 (tea leaf), the PRC exported 286,594,157 kg with main destinations of Morocco (56,788,462 kg), Japan (27,675,854 kg), Uzbekistan (19,026,007 kg), USA (18,721,866 kg), Russian Federation (16,590,056 kg), Hong Kong (15,254,446 kg), Ghana (12,272,977 kg), Algeria (10,960,941 kg), Libya (9,189,350 kg), and Senegal (7,075,067 kg).

Main destinations for PRC exports of medicinal plants classified under HS 1211 (201,984,402 kg) were Hong Kong (97,244,930 kg), South Korea (35,769,74 kg), Japan (18,831,170 kg), Viet Nam (13,887,969 kg), Other Asia not elsewhere specified (8,382,022 kg), USA (4,850,147 kg), Malaysia (3,002,411 kg), Germany (2,740,923 kg), Singapore (1,938,464 kg), Ireland (1,915,421 kg), France (1,722,980 kg), Thailand (1,116,333 kg), and Italy (864,723 kg), among many others.

TOTAL 2006 EXPORTS OF SELECTED ASIAN COUNTRIES / Quantities in Kilograms (kg)

HS CODE	PRC	Hong Kong	Malaysia	Mongolia	South Korea
0902: Tea leaf	286,594,157	1,862,976	1,090,912	633	1,540,611
0903: Maté leaf **	130,363	0	13,677	0	0
0904: <i>Piper</i> and <i>Capsicum</i> genera	103,183,043	581,398	38,483,009	0	1,636,519
0905: Vanilla	0	11,055	15,314	0	0
0906: Cinnamon	35,558,940	318,434	190,212	0	25,270
0907: Clove	13,833	2,577	100,630	0	1,095
0908: Cardamom, Mace, Nutmeg	3	25,325	356,520	0	0
0909: Star Anise, Caraway, Cumin, Coriander, Fennel,	8,833,202	110,889	788,278	0	1,787
0910: Ginger, Saffron, Thyme Turmeric	291,215,008	1,298,890	4,486,364	4,005	171,139
1210: Hop strobile	103,267	32,550	175,000	0	0
1211: Medicinal herbs	201,894,402	13,586,872	918,632	2,722	975,444
121220: Seaweeds, algae	46,999,174	8,471,556	988,804	0	19,907,072
1301: Gum-resins & oleoresins	75,619	585,649	218,309	0	22,902
1302: Extracts, Saps	17,983,815	2,208,712	519,846	0	3,095,524
3301: Essential oils	15,155,334	586,650	200,028	619	7,599
3302: Mixtures of odoriferous substances	11,640,174	4,752,454	2,495,006	0	544,854

** Since HS 0903, Maté leaf (*Ilex paraguariensis*) is produced in South American countries, the export data for China and Malaysia appears to be the result of applying an incorrect HS code. It is possible but seems unlikely that these countries are importing and re-exporting quantities of maté leaf.

SOURCE: United Nations Commodity Trade Statistics Database.

TWO NEW STUDIES PUBLISHED ON THE CHINESE HERBAL DRUGS TRADE

In April 2007, ChinaCCM.com, a multinational market research company based in Hong Kong, published its 1,027-page “2007 Annual Report on China: Chinese Herbal Drugs Industry.” The report is priced at \$2,000 (USD) / hard copy or \$2,150 for a PDF copy. In January 2007, the Helmut Kaiser Consultancy of Tübingen, Germany published its new study entitled “*Traditional Chinese Medicine (TCM) in China and Worldwide 2005-2006-2010-2015: Markets Products, Companies, Developments, Technologies and Sciences.*” This report sells for 3,900 Euros (= \$5,215 USD). Both reports appear to provide valuable information but based on the promotional materials available and a review of the Table of Contents for each report, it is also apparent that the English translations could be better.

The ChinaCCM.com report contains 11 chapters. Chapter 1 includes trade characteristics of the herbal trade drug. Chapter 2 provides an analysis of the Chinese herbal drug trade including sections on the Government’s supervision of the trade (State Administration of Traditional Chinese Medicine; Good Agricultural and Collection Practices (GACPs) and Good Manufacturing Practices (GMPs)), intellectual property protection of TCM, and accession to the WTO impact on development of Chinese herbal drug industry. Chapter 3 includes a market supply and demand analysis of Chinese herbal drug trade and a section with analysis of investments being made in the herbal trade. Chapter 4 provides analysis of the main large Chinese herbal drug producing Provinces including Sichuan (ranked #1), Guangdong, Jilin, Guangxi, and Chongqing, among other Provinces. Chapter 5 is titled “Imports & Exports Trade Situation Analysis of Chinese Herbal Drug, 2006,” and includes import and export analysis of crude medicinal herbs (decoction pieces), bulk plant extracts, finished TCM products, and finished Chinese herbal health products. Chapter 5 also includes export analysis by major Province and an analysis of the main destination markets for Chinese herbs. Chapter 6 analyzes the Chinese domestic market for crude herbal drugs and also provides a main category analysis for 7 important crude drugs; Asian ginseng (*Panax ginseng*), cordyceps fungus (*Cordyceps sinensis*), fo-ti root tuber (*Polygonum multiflorum*), gastrodia tuber (*Gastrodia elata*), honeysuckle flower bud (*Lonicera* spp.), isatis root (*Isatis indigotica*), schisandra fruit (*Schisandra chinensis*), and Tienchi ginseng root (*Panax notoginseng*). Chapter 7 deals entirely with Chinese herbal drug decoction pieces, the manufacturing enterprises that produce them, policy and regulations governing their manufacture, development of new herbal decoction pieces using nanotechnology, problems and challenges faced by herbal drug decoction pieces market. Chapter 8 provides analysis of the TCM Patent Prescription sub-sector. Market competition and tactics analysis is the theme of Chapter 9 and Chapter 10 provides analysis of China’s top ten herbal drug companies. The report finishes with Chapter 11 which provides 2007 development prospects and trend analysis for the Chinese herbal drug trade.

The 2007 report from Helmut Kaiser contains 9 chapters. Chapter 1 is a definition of TCM. Chapter 2 provides a global market overview for TCM. Chapter 3 includes analysis of the development of the TCM market and market segmentation for Western Europe, Germany, and the USA. The TCM Market in Asia is the subject of Chapter 4 which covers China, Japan, and Korea. Chapter 5 looks at the market segments of TCM; phytotherapy, acupuncture and acupuncture devices, nutrition and dietary supplements, pharmaceutical drugs, vitamins and minerals, diagnostics, medical-technical equipment, and qigong devices. Chapter 6 is titled “TCM in China” and includes data on total sales figures, main companies in botanical extraction, main botanical raw materials trading markets with price index for 500 Chinese herbs and main raw herbs with market potential data, TCM patent medicines market, and TCM sales through hospitals (ranked by product and manufacturer). Chapter 7 provides information and financial analysis on leading TCM companies in China [NOTE: Most of the same companies are also analyzed in Chapter 10 of the aforementioned report by ChinaCCM.com]. Chapter 8 provides import and export data including sections on proportion of TCM botanical extracts export market by region and proportion of TCM raw materials and sliced medicinal herbs export market by region. Chapter 9 is titled “Factors Affecting the Development of China’s TCM Market from 2005 to 2015” and Chapter 10 is the conclusion. The Introduction to this study states that the TCM market has been rapidly developing since the late 1990s. In 2005, the output value of TCM amounted to RMB110.3 billion (about €11 billion), accounted for a quarter of the overall output value in China’s medical industry. The net yield and profits of TCM production is much higher than the average for the country’s medical industry. The total TCM market in China will rise to €18.8 billion in 2015. More than 3,000 enterprises are engaging in TCM processing and this study provides financial and business analysis of the top TCM companies.

SOURCES: (1) ChinaCCM.com. *2007 Annual Report on China: Chinese Herbal Drugs Industry*. April 2007: <http://www.chinaccm.com> (2) Helmut Kaiser Consultancy. *Traditional Chinese Medicine (TCM) in China and Worldwide 2005-2006-2010-2015: Markets Products, Companies, Developments, Technologies and Sciences*. Tübingen, Germany: Helmut Kaiser Consultancy. January 2007: <http://www.hkc22.com/ChineseMedicine.html>.

CHENGDU CITY 1st QUARTER 2007 MEDICINAL HERBAL PRODUCT EXPORT STATISTICS

Chengdu, capital of Sichuan Province, is one of the most important economic centers in China. Sichuan Province and the Chengdu region are considered by some to be the capital of Traditional Chinese Medicine (TCM) and Chengdu is one of the major pharmaceutical R&D centers in China. The table below shows 1st quarter Chengdu exports of TCM products including bulk botanical raw materials (herbal medicines and herbal pieces), bulk botanical extracts, finished herbal health care products, and finished Traditional Chinese Patent Medicine products. TCM products make up 46.17% of Chengdu's total medical product exports. Western drugs account for 48.22% and medical equipment 5.6% of Chengdu medical product exports.

Export statistic of medical products of Chengdu city in 1-3 months
Monetary Unit: 1 Chinese Renminbi Yuan (CNY) = \$0.1306 (USD)

Category	Accumulative value (2007)	Accumulative value (2006)	Growth rate	Share
Traditional Chinese Medicine (TCM):	10,684,054 CNY =\$1,394,876 USD	9,925,503 CNY =\$1,295,842 USD	7.64%	46.17%
Herbal medicines and herbal pieces	2,495,632 CNY =\$325,821 USD	2,930,700 CNY =\$382,622 USD	-14.84%	10.78%
Herbal extracts	7,544,837 CNY =\$985,030 USD	6,487,436 CNY =\$846,979 USD	16.29%	32.60%
Herbal health care products	266,000 CNY =\$34,728 USD	157,500 CNY =\$20,562 USD	68.88%	1.14%
Traditional Chinese patent medicines	377,585 CNY =\$49,296 USD	349,867 CNY =\$45,677 USD	7.92%	1.63%
Western drugs	11,158,860 CNY	12,554,597 CNY	-11.11%	48.22%
Medical equipment	1,296,253 CNY	1,843,217 CNY	-29.67%	5.60%
Total Medical Products Exports	23,139,167 CNY	24,323,317 CNY	-4.86%	100.00%

Source: Healthoo Information. Chengdu's export statistic of medical products in 1-3 months. Beijing, China: Orient Health Ecommerce Ltd. 8 June 2007.

BOTANICAL RAW MATERIALS (Indicative prices: USD \$ / kg)

Product	Source	Price	Destination
Astragalus root pwd (<i>Astragalus membranaceus</i>)	China	6	New York
Cassia bark (<i>Cinnamomum aromaticum</i>)	China	1.6-1.8	CIF California
Cherokee rose hip (<i>Rosa laevigata</i>), seedless	China	1.63	CIF California
Chicory root (<i>Cichorium intybus</i>)	China	4.4	CIF California
Chinese mint leaf (<i>Mentha haplocalyx</i>)	China	1.7	CIF California
Eleuthero root (<i>Eleutherococcus senticosus</i>)	China	2.15	CIF California
Garlic bulb (<i>Allium sativum</i>)	China:		
— Conventional, powdered		2.25	Spot New York
— organic, powdered **		2.02	FOB Qingdao port
Ginger rhizome (<i>Zingiber officinale</i>), powder **	China	2.21	FOB Qingdao port
Ginger rhizome (<i>Zingiber officinale</i>)	China	1.76	SPOT New York
Ginseng root (<i>Panax ginseng</i>)	China	17.4	CIF California
Hop strobile (<i>Humulus lupulus</i>)	China	6.2	CIF California
Jujube date powder (<i>Ziziphus jujuba</i>)	China	9	New York
Licorice root (<i>Glycyrrhiza uralensis</i>)			
— conventional	China	2.4	CIF California
— organic **	China	6.0	FOB Hamburg
Lycium fruit (<i>Lycium barbarum</i>)	China	6.6	FOB San Francisco
Star anise fruit (<i>Illicium verum</i>)	China	3.96	Spot New York

** Certified organic

Note: Monographs providing quality standards and tests for most the above listed Chinese herbs are published in the Pharmacopoeia of the Peoples Republic of China (PPRC English Edition 2005). Many are also published in the Japanese Pharmacopoeia (JP XIV, English Edition 2001).

BOTANICAL EXTRACTS & OILS (Indicative prices: USD \$ / kg)

Product	Standardization	%	Price
Asian ginseng root (from bi-product)	Ginsenosides (by UV)	80	58
Bilberry fruit	Anthocyanins	25	578
Bitter orange fruit / peel	Synephrine	30	37
Bitter orange fruit / peel	Synephrine	60	95
Eleuthero root	Eleutherosides	0.8	10-32
Epimedium herb	Flavonoids (as icariin)	20	48
Ginger rhizome	Essential oil	N/A	30-39
Ginkgo leaf	Flavonglycosides /Lactones	24/6	24 *
Green tea leaf	EGCG	50	28
Kudzu root	4 : 1 (w/w)	N/A	17
Licorice root liquid extract	Glycyrrhetic acid	7	3
Lycium fruit	Polysaccharides	10	45-53
Schisandra fruit	Schisandrins	2	25
Soybean	Isoflavones	40	90-98
Star anise fruit	Essential oil	N/A	6.5-8

*NOTE: This is about 1/10 the price of European-made ginkgo extract and there have been many reports of adulterated product from China, which may partly explain the low cost.

PRODUCT SPECIFICATIONS
GREEN TEA EXTRACT – Product of CHINA

Product:	Green Tea Extract Powder
Botanical name:	<i>Camellia sinensis</i> (L.) Kuntze [Fam. Theaceae]
Pharmacopoeial name:	Camelliae sinensis non fermentata folii extractum siccum normatum
Plant part used:	Dried leaf
Extraction solvent:	Water / ethanol
Storage:	Store tightly sealed in a clean, cool and dry place, away from strong and direct light.
Shelf life:	Two years from date of manufacture, when properly stored.

Physical Analysis

Appearance:	Fine powder
Color:	Brownish yellow
Odor:	Characteristic
Taste:	Characteristic
Particle size:	100% through 80 mesh

Chemical Analysis

Moisture:	Not more than 5.0%
Caffeine:	Present
Polyphenols:	Not less than 95.0% as determined by UV

Contaminants Analysis

Heavy Metals:	Not more than 20 ppm
Arsenic:	Not more than 2 ppm
Lead	Not more than 2 ppm

Microbiological Load

Total Viable Aerobic Count:	Not more than 1,000 cfu/g
Yeast and mold:	Not more than 100 cfu/g
Escherichia coli (in 1 g):	Absent
Salmonella (in 10 g):	Absent

Applications:	As a component of oral care products (dental gum, dental gel, mouth spray, mouth wash, toothpaste).
----------------------	---

MEETINGS AND TRADE SHOWS EASTERN ASIA

June 11-15 2007

INTERNATIONAL CONFERENCE AND TRADE FAIR: THE ROLE OF NON-TIMBER FOREST PRODUCTS (NTFPs) IN POVERTY ALLEVIATION AND BIODIVERSITY CONSERVATION

Venue: Sofitel Plaza Hotel, Hanoi, Vietnam

Sponsors: Non-Timber Forest Products Sub-Sector Support Project, Koninkrijk der Nederlanden, IUCN, SNV, GTZ, Care, WWF, RECOFTE, SIPPO

Contact: Sarah Webster, IUCN Viet Nam, 44/4 Van Bao, Ba Dinh District, Ha Noi, Viet Nam

TEL: ++84-4-726-1575 Ext: 133 / FAX: ++84-4-726-1561

E-MAIL: sarahweb@iucn.org.vn

WEB: http://www.cifor.cgiar.org/Events/hanoi_ntfp.htm

On the 4th day of the Conference there will be a Trade Fair providing an opportunity for participants to view a wide range of NTFPs, meet producers and buyers and learn more about the economic potential of NTFPs. Also on the 4th and 5th days there will be optional field trips to visit NTFP project sites in Northern Vietnam.

June 27-29, 2007

NATURAL PRODUCTS EXPO ASIA

Venue: Hong Kong Convention & Exhibition Centre, Hong Kong, China

Organizer: Penton Media Inc.

Contact: Penton Media Asia Ltd., Room 1302, Wanchai Central Building, 89 Lockhart Road, Wanchai, Hong Kong / Tel: +852-2975-9051 / Fax: +852-2857-6144

E-MAIL: info@pentonasia.com

WEB: http://www.naturalproductsasia.com/eng_main.php

Exhibitor profile: Although mainly a finished products trade show, exhibitors will include suppliers of botanical raw materials, botanical extracts, essences, certified organic ingredients, functional food ingredients, cosmeceuticals, nutraceuticals, Traditional Chinese Medicines, Traditional Ayurvedic Medicines, Naturopathic Remedies, and Homoeopathic Medicines.

July 17-20, 2007

TRADITIONAL AND COMPLEMENTARY MEDICINE EXHIBITION 2007 (TCME 2007)

co-located with the 3rd International Congress on Traditional Medicine & Materia Medica (ICTMMM) and the International Traditional / Complementary Medicine Conference (INTRACOM)

Venue: Putra World Trade Centre, Kuala Lumpur, Malaysia

Contact: Ms Amy Ismail at TEL: 603-6140 6666

E-MAIL: amy@protemp.com.my

WEB: <http://www.ictmmm2007.org/exhibition.htm>

Exhibitor Profile: Suppliers of bee products, cocoa, coffee, dietary supplements, essences, herbal medicines, herbal products, herbal supplements, herbal teas, medicinal plants, natural edible pigments, natural flavorings, organic foods and beverages, organic health ingredients, plant extracts, raw herbs, soy products, spices, tea leaves.

August 2-4, 2007

INTERHERB 2007

Venue: Xiamen International Conference & Exhibition Center, 301 Hongqi street Nangang Dist. Harbin, China

Organizer: Reed Sinopharm Exhibitions Co., Ltd.

Supporters: China National Pharmaceutical Group Corp., Reed Sinopharm Exhibitions Co., Ltd., China National Group Corp. of Traditional & herbal Medicine, China Society of Traditional Chinese Medicine, China Pharmaceutical Association, Chinese Pharmaceutical Culture Society, Hong Kong Chinese Medicine Merchants Association Limited, The Bangkok Medicine Trader's Association, International TCM Trading Development Association, Chinese Herbs Development Association

Contact: Ms. Sue Chen, Reed, Sinopharm Exhibitions Co. Ltd, Natural Medicine Dept, 11-12th floor, China Pharmaceutical Bldg, No. 20 Zhichun Road, Haidian District, Beijing, China
TEL: 86-10-62068899 ext. 3607 / FAX: 86-10-82350429

E-MAIL: susu.chen@reedsinopharm.com
WEB: <http://en.interherb.com.cn>

Exhibitor profile: Traditional Chinese Medicine (TCM) raw materials, TCM herbal decoction pieces, concentrated Chinese medicine granules, GAP plantation bases, TCM modernization bases of science & technology industry, animal extracts, botanical extracts, intermediates, natural health care product, apian products, sea products, TCM decoction machinery, pulverizers, pharmaceutical packing material & equipment, TCM extracting equipment.

HEALTHPLEX EXPO 2007

Venue: China World Trade Center Exhibition Hall, No.1, Jian Guomen Wai Street, Chaoyang District, Beijing 100044 China
Organizer: Trade Development Bureau (TDB) Ministry of Commerce of China and the China Chamber of Commerce of Medicines and Health Products Importers and Exporters (CCCMHPIE)
Contact: 8F, 12, Panjiayuan Nanli, Chaoyang, Beijing 100021 China
TEL: +86 - 10 - 87792001, 87792002, 87789677, 87789678, 67736869
FAX: +86 - 10 - 87789502, 67734737, 87792010 / E-MAIL: exhibition@cccmmhpie.org.cn
WEB: <http://www.healthplex.com.cn>

Exhibitor profile: Traditional Chinese Medicines, medicated oils and ointments, natural medicinal products, dietary supplements, functional foods, healthy beverages.

August 16-20, 2007

2007 INTERNATIONAL CONFERENCE & EXHIBITION OF THE MODERNIZATION OF CHINESE MEDICINE & HEALTH PRODUCTS

Venue: Hong Kong Convention and Exhibition Centre, Hall 2, 1 Harbor Road, Wanchai, HK
Organizer: Hong Kong Trade Development Council and The Modernized Chinese Medicine International Association Ltd: <http://www.mcmia.org/>
Contact: Exhibitions Department, Hong Kong Trade Development Council, Unit 13, Expo Galleria, FAX: (852) 2824-0026 / E-MAIL: exhibitions@tdc.org.hk
WEB: <http://www.icmcm.com/>

Exhibitor profile: Chinese botanical raw materials and extracts, finished medicinal herbal products, certified organic herbal ingredients, health products (herbal supplements, functional foods, nutraceuticals, organic foods), research and development services and trade associations.

September 5-8, 2007

HERBAL AND HEALTH FOOD INDONESIA

Venue: Jakarta International Exhibition Centre, Kemayoran, Jakarta, Jakarta Raya, Indonesia
Organizer: Krista Media Pratama PT., Krista Exhibitions, Jln. Blandongan 28 DG, Jakarta, Indonesia
TEL: +(62)-(21)-6345861/6345862/6334581 / FAX: +(62)-(21)-6340140/6342113
WEB: <http://www.biztradeshows.com/trade-events/herbal-healthfood-indonesia.html>

Exhibitor profile: Suppliers of herbs and spices, antioxidants, fats and oils, aromas and flavors, fruit and vegetable products, organic ingredients, seasonings, soy products, starches, sweeteners, vitamins and minerals, and more.

October 10-12, 2007

September 21-23, 2006

NATURAL PRODUCTS EXPO JAPAN

Venue: Tokyo International Exhibition Center (Tokyo Big Sight)
Contact: Health Business Magazine Co., Ltd., Mr. Hitoshi Oya, Planning & Marketing Director
TEL: +81 3 3839 0751 / FAX: +81 3 3839 0753
E-MAIL: oya@health-mag.co.jp
WEB: <http://www.naturalproductsjapan.com>

Exhibitor profile: Although mainly a finished products trade show, there will be exhibitors of raw ingredients & supply-related products & services including botanical raw materials, extracts, TCM

ingredients, essences, Ayurvedic remedies, traditional herbal medicinal products, nutraceuticals, functional food ingredients, cosmeceuticals, specialized formulae, mushroom products, probiotics, processing technology, organic products, and more.

November 1-4, 2007

HERBAL ASIA 2007

Venue: Matrade Exhibition Convention Centre, Kuala Lumpur, Malaysia

Organizer: Gitex (M) Sdn Bhd

Supporters: Ministry of Natural Resources & Environment, Ministry of Agriculture & Agro-Based Industry, Ministry of Entrepreneur & Cooperative Development, Ministry of Health, Ministry of Tourism, Ministry of Culture, Art & Heritage,

Contact: Secretariat Herbal Asia, Level 2, The Ascott Kuala Lumpur, No. 9, Jalan Pinang 50450, Kuala Lumpur / TEL: 03-2140 2277 / FAX: 03-2148 2228

E-MAIL: Exhibition: hba@mygitex.com / Conference & Seminar: seminar@mygitex.com

Buyer-Seller Meeting: meet@mygitex.com

WEB: <http://herbalasia.com.my>

Exhibitor profile: Growers and suppliers of botanical raw materials, medicinal plants, spices, coffee, tea leaf, essences, botanical extracts, marine extracts, natural flavors, natural edible pigments, organic health ingredients, bee products, suppliers of Ayurvedic medicines, naturopathic medicines, homoeopathic medicines, medicinal herbal teas, aromatherapy products, and more.

November 5-9, 2007

14th CHINA YANGLING AGRICULTURAL HI-TECH FAIR (CAF)

Venue: No.1 Western Zhanguan Road, Yangling Demonstration Zone, Shaanxi, 712100 PR China

Host: The People's Government of Shaanxi Province

E-MAIL: exhibit@yangling.gov.cn / melissalihua@yahoo.com.cn

WEB: <http://www.agri-fair.com>

Exhibitor profile: Suppliers of medicinal herbs, planting technology, medicinal herb processing and equipment, medicinal herbal products.

November 14-16, 2007

NATURAL / ORGANIC PRODUCTS ASIA 2007 – ASIA HEALTH 2007

Venue: Singapore Expo, Hall 4

Supporters: Chinese Organic Agribusiness Association (COAA), Health Supplements Industry Association Singapore (HSIAS), Korea Health Supplement Association (KHSA), International Alliance of Dietary / Food Supplement Associations

E-MAIL: lauriechin@hqlink.com

WEB: <http://www.npoasia.com>

Exhibitor Profile: Herbs and spices, plant extracts, dietary supplements, traditional remedies and medicines, coffee and tea, ecological products, organic foods and beverages, raw materials.

November 21-24, 2007

3rd GLOBAL SUMMIT ON MEDICINAL AND AROMATIC PLANTS

Venue: Chiang Mai, Thailand

Contact: Dr. Thaneeya Chetianukornkul, Secretariat, International Centre, UNISERV, Chiang Mai University, 239 Huay Keaw Road, Chiang Mai 50200 Thailand

TEL: + (66-53) 94-2861 / FAX: + (66-53) 94-2890

E-MAIL: gosmap3@gmail.com

WEB: <http://www.gosmap3-cmu.co.nr>

Summit topics include: Cultivation and quality standardization, Sustainable role of medicinal and aromatic plants in health care, Safety and efficacy of phytomedicines and phytocosmetics, Isolation and characterization of bioactive substances from medicinal and aromatic plants, Nanotechnology in pharmaceutical, phytocosmetics and natural products

DEMAND AND SUPPLY**NEW STUDY MAKES RECOMMENDATIONS FOR HOW TO INCREASE INDIAN HERBAL EXPORTS**

In a report entitled “*Future of Herbal Exports*,” published by the Associated Chambers of Commerce & Industry of India (ASSOCHAM), the establishing of Exclusive Export Promotion Zones (EPZ) in six selected Indian States is a main recommendation as a way to increase exports of Indian herbs and medicinal herbal products from current level of about Rs. 3,000 crore (= \$734,600,729 USD) to a projected figure of Rs. 12,000 crore (= \$2,938,402,918 USD) by 2012. This recommendation is based in part on data that traditional herbal medicine exports to countries like US, Spain, UK, Australia, Russia and Indonesia have been growing at an average rate of over 25%. China and India are the largest producers of medicinal plants but India’s share in medicinal plant exports in global trade is just about 2.5% against 13% for China. The leading producers of medicinal plants in India are the States of Gujarat, Rajasthan, Haryana, Tamil Nadu, Andhra Pradesh and the Himalayan range, which together account for 75% of India’s total herbal medicine exports.

ASSOCHAM suggests that EPZs to accelerate herbal exports are necessary for which grants and R&D support must occur through central allocations & resources. Furthermore, if EPZs are set up in these six States with a total central allocation of Rs. 30,000 crores (= \$7,346,007,295 USD), having facilities for research & development, it would not be difficult for India to accelerate its exports of herbs and herbal medicines, to the projected level of Rs. 12,000 crore within 5 years time. The Indian medicinal herbs that have established export demand in economies of scale and are already produced with international quality norms include psyllium husk & seed (*Plantago ovata*), senna leaf & pod (*Cassia angustifolia*), sandalwood chips & dust (*Santalum album*), jojoba seed (*Simmondsia chinensis*), pyrethrum (*Tanacetum cinerariaefolium*), basil leaf (*Ocimum* spp.), hyssop herb (*Hyssopus officinalis*), and galangal rhizome and root (*Alpinia* spp.), among others.

The ASSOCHAM report highlights the fact that India has 15 agroclimatic zones with 15,000 medicinal plants of which the Indian Systems of Medicine (Ayurveda, Siddha and Unani) have identified 1,500 in their respective materia medica. About 70% of India’s medicinal plants are found in tropical areas mostly in the various forest types spread across the Western and Eastern ghats, the Vindhya, Chotta Nagpur plateau, Aravalis & Himalayas. Although less than 30% of the medicinal plants are found in the temperate and alpine areas and higher altitudes they include species of high medicinal value. Macro studies show that a larger percentage of the known medicinal plant occur in the dry and moist deciduous vegetation as compared to the evergreen or temperate habitats. About 90% of medicinal plants used by industry are collected from the wild. While over 800 species are used in production by industry, less than 20 species of plants are under commercial cultivation. Over 70% of the plant collections involve destructive harvesting because of the use of parts like roots, bark, wood, stem and the whole plant in case of herbs. This poses a definite threat to the genetic stocks and to the diversity of medicinal plants if biodiversity is not sustainably used.

The quality of medicinal plants depends on the geographical origin, time and stage of growth when collection has been done and post harvest handling. The collections in most cases are done by villagers or tribals residing in the vicinity of forest in their spare time. The plant part is collected without paying great attention to the stage of maturity, dried haphazardly and stored for long periods under unsuitable conditions. The quality of collected material, as such is often degraded. The ASSOCHAM paper therefore suggests a multi-pronged and multi-dimensional strategy, in addition to the creation of EPZs, to improve quality control. The report seeks allocation of funds for conducting R&D on product and process development to improve post-harvesting of herbs and create marketing agencies for efficient marketing of herbal potential through scientific channels of communications.

The report concludes that the US & UK will continue to be 1st and 2nd largest export markets for Indian herbal medicinal products. Since 2004 herbal exports, despite fluctuations for a variety of factors, have still shown an over 30% increase. The same trend will likely be the case with other countries identified in the study including Germany, France, Pakistan & UAE.

SOURCE: Associated Chambers of Commerce & Industry of India (ASSOCHAM). Create EPZs, Push Up Herbal Export To Rs. 12,000 Cr. By 2012- ASSOCHAM. ASSOCHAM Press Release. 07 June 2007.

USA REMAINS LEADING IMPORTER OF INDIAN PSYLLIUM AND GERMANY FOR SENNA IMPORTS

Psyllium (*Plantago ovata*) and senna (*Cassia angustifolia*) are among India's highest volume medicinal plant exports (ginger rhizome and tea leaf are higher volume). During the first half of the 2006-2007 agricultural season (See Table 1), India exported 9,489,620 kg of psyllium husk (HS 12119032) valued at USD \$26.12 million (= \$2.75/kg), and 645,650 kg of psyllium seed (HS 12119013) valued at USD \$0.65 million (= \$1.01/kg). Main destinations for Psyllium husk were USA (4,613,510 kg), Pakistan (858,730 kg), Germany (520,020 kg), Spain (349,000 kg), Australia (333,800 kg), Indonesia (290,000 kg), and Japan (238,000 kg), among others. Main destinations for Psyllium seed were USA (340,300 kg), Pakistan (54,000 kg), Bangladesh (39,000 kg), Japan (24,500 kg), and Canada (24,200 kg), among others. During same 6-month period, 5,288,720 kg of senna leaf and/or pod (HS 12119022) were exported valued at USD \$2.98 million (= \$0.5635/kg). Main destinations for senna leaf & pod were Germany (1,350,470 kg), People's Republic of China (524,800 kg), Japan (451,500 kg), Poland (370,990 kg), USA (319,900 kg), Thailand (223,000 kg), and Vietnam (209,600 kg), among others. While Germany is the largest importer of senna it should be noted that much of the supply is value-added in Germany and re-exported. For sickle-pod senna seed (HS 09109915), the first 6-month export quantity of 2,799,900 kg (valued at \$0.90 million or \$0.3214/kg) already exceeds the previous 12-month total of 2,083,280 kg. Main destinations were Taiwan (1,497,000 kg) and Japan (1,074,000 kg).

TABLE 1: INDIA: SELECTED HIGH DEMAND MEDICINAL PLANT EXPORTS
Herb Name / HS 8-Digit Code / Apr-Mar 2002-2007 / Quantities: kilograms (kg)

HERB NAME	HS CODE	Apr-Mar 2002-2003 kg	Apr-Mar 2003-2004 kg	Apr-Mar 2004-2005 kg	Apr-Mar 2005-2006 kg	Apr-Sep 2006-2007 kg
Psyllium husk (<i>Plantago ovata</i>)	12119032*	682,550	7,235,620	19,387,380	24,959,900	9,489,620
Psyllium seed (<i>Plantago ovata</i>)	12119013	1,114,740	3,520,040	1,191,210	760,510	645,650
Senna leaf / pod (<i>Cassia angustifolia</i>)	12119022	9,638,470	10,973,690	10,924,050	11,430,180	5,288,720
Sickle-pod senna seed (<i>Cassia tora</i>)	09109915	2,366,910	1,881,090	1,572,450	2,083,280	2,799,900

* NOTE: Imports of Psyllium Husk into the USA employ an HS Code [1211909020] different from the code employed by India [12119032], which may explain some discrepancies. Also, the 2002/2003 export data for this item is obviously inaccurate. Presumably, most of the psyllium in that year was grouped under another HS Code.

SOURCE: Government of India Ministry of Commerce & Industry, Department of Commerce, Export Import Data Bank. Accessed 6 June 2007: <http://commerce.nic.in/eidb/default.asp>.

INDIA AIMS TO REPLACE EXPORTS OF RAW MATERIALS WITH FINISHED HERBAL PRODUCTS

In a Speech given at the inaugural ceremony of India Herbal Garden at WHO Headquarters in Geneva on 16 May, Dr. Anbumani Ramadoss, Minister for Health & Family Welfare, stated that India is one of the 17-mega diversity countries and is home to 7% of the world biodiversity. There are 16 agro climatic zones, 45,000 different plants species of which about 7000 to 8000 species are used in various systems of medicine. On the topic of the potential for finished herbal products export, Dr. Ramadoss said that one of the key issues relating to standardization, quality control is the issue relating to medicinal plants which are the main source of raw material for the traditional systems of medicines. Realizing that the efficacy, quality and safety of India's systems of medicine depend upon an assured supply of standardized, quality raw material, Government of India have set up a National Medicinal Plants Board (NMPB) to address all the issues relating to supply quality and standardization of raw material for Ayurveda, Siddha and Unani (ASU) and herbal industries. India's endeavor is to move away from being an exporter of raw materials of medicinal plants to exporters of finished products of defined quality standards. The aim is to not only promote export of value-added herbal products but also to ensure supply of raw material for the domestic market of India's ASU and herbal products. A major challenge facing the traditional systems of medicine worldwide

today, however, is the question of standardization, quality and safety. Although traditional systems of medicine have their own science behind them, in order to improve the outreach of these systems, serious attention is being paid to validate the traditional knowledge and bring that in conformity with the modern scientific paradigm. Efforts are being made to strengthen quality control and standardization by evolving pharmacopoeial standards and setting up State Drug Testing Laboratories. Indian Government has also made compliance of Good Manufacturing Practices (GMP) mandatory for ASU drug manufacturing units. Additionally, the GMP norms are being made more stringent to ensure compliance with the evolving international standards. In order to ensure quality of ASU products that also use minerals in their preparation, mandatory testing for heavy metals for export purposes came into effect in 2006.

SOURCE: Government of India Press Information Bureau (PIB). India: Power house of herbal medicines. *PIB Press Release*. 23 May 2007.

PROPOSED NATIONAL SPECIFICATIONS FOR HERBAL PRODUCT EXPORTS

The proposed introduction of an Export Inspection Certification Scheme for enhancing the export of Indian ASU (Ayurvedic, Siddha and Unani) herbal products is to be published in the Gazette of India, Part II, Section 3, Sub-Section (ii). A special meeting organized by Pharmexcil (Pharmaceuticals Export Promotion Council) took place 06 June 2007 to discuss the barriers/constraints in the exports of ASU products, Indian Government expectations of the herbal industry, and the proposed testing and certification scheme. The notification for publication in the Gazette includes 4 proposals: (1) To notify that Ayurvedic, Siddha and Unani products shall be subject to quality control and inspection prior to export; (2) To specify the type of quality control and inspection in accordance with the draft Export of ASU (Quality Control, Inspection and Monitoring) Rules; (3) To recognize the specifications as set out in the Schedule as the Standard Specification for ASU products; and (4) To prohibit the export of ASU products in the course of international trade unless they conform to the Standard Specifications applicable and are accompanied by a Certificate of Inspection. The proposed specifications of ASU products intended for exports are shown in Table 2.

TABLE 2: SPECIFICATIONS OF AYURVEDIC, SIDDHA & UNANI PRODUCTS INTENDED FOR EXPORTS

Heavy Metals	Proposed Permissible Limits
Lead (Pb)	10 ppm
Cadmium (Cd)	0.30 ppm
Arsenic (As)	10 ppm
Mercury (Hg)	1 ppm
Pesticides Residues	Proposed Permissible Limits
Organochloro Group Test	1.00 ppm
Quinolphos*	0.01 ppm
DDF*	1.00 ppm
Aldrin*	0.05 ppm
Dieldrin*	0.05 ppm
DDT*	1.00 ppm
DDD*	1.00 ppm
HCH (Hexa Chloro Cyclohexane)*	0.30 ppm
Note: Pesticides marked * shall be tested only when sample fails in Organochloro Group Test	
Aflatoxins	Proposed Permissible Limits
B1	0.5 ppb
G1	0.5 ppb
B2	0.1 ppb
G2	0.1 ppb
Microbial Contamination Parameters	Proposed Permissible Limits
<i>Staphylococcus aureus</i> / 1 g	Absent
<i>Salmonella</i> spp. / 10 g	Absent
<i>Pseudomonas aeruginosa</i>	Absent
<i>Escherichia coli</i> / 10 g	Absent
Total Plate Count (TPC)	10 ⁵ / g
Total Yeast & Mould	10 ³ / g

SOURCE: Pharmaceuticals Export Promotion Council (Pharmexcil). Roadmap for promotion of exports of herbal/Ayurvedic products. Hyderabad, India: Pharmexcil. 23 May 2007.

SENNA FARMERS IN TUTICORIN TRAINED ON METHODS TO IMPROVE SENNOSIDES CONTENT

On 24 May 2007, an interface involving herb farmers and scientists was jointly organized by the Agricultural Research Station (ARS), Kovilpatti, and the Agricultural Technology Management Agency (ATMA) to discuss issues pertaining to the cultivation of senna (*Cassia angustifolia*) at Kovilpatti, Municipality of Tuticorin, State of Tamil Nadu. In his address, P. Chandrasekaran, the Deputy Director of Agriculture, explained the export potential of senna as a medicinal plant. V. Subramanian, professor and head of ARS, Kovilpatti, spoke on characteristics of senna crop including its active constituent content (sennosides) and ways to improve the content through application of organic manure.

SOURCE: Anon. Kovilpatti farmers trained in cultivation of 'senna'. *The Hindu*. 25 May 2007.

SENNA EXPORTERS IN TUTICORIN WANT TO VALUE-ADD BUT REGULATIONS TOO RESTRICTIVE

Medicinal plant exports is a traditional business in Tuticorin (Tamil Nadu) that has been trying to evolve from merely raw material exports to value-added product exports. According to Mr. P.S.S. Ganesan (<http://www.herbelixirs.com>), a leading exporter of senna (*Cassia angustifolia*) and other medicinal plants, Tuticorin is the base for over 10 exporters with an estimated total annual export value of about Rs 40 crore (= USD \$9,848,153). Also, Karnataka-based medicinal plant exporters route their exports through the port of Tuticorin. Senna although native to Tamil Nadu is being cultivated widely in the State of Rajasthan while its growth in Tamil Nadu has been relatively slow. Tinneveli Senna has a strong market in Europe and fetches about Rs 25/kg (= USD \$0.62/kg). Tuticorin-based exporters sell about 10,000 tons of senna raw materials a year. According to Mr. Ganesan, exporters based in Tuticorin are not able to export value-added senna extracts because of the stringent regulations on the use of ethanol and methanol. The licensing regulations are so complicated that they prefer to export raw material. The policy is a stumbling block for investment in extraction technologies.

SOURCE: Balaji R. A route to medicinal plant product exports. *Business Line*. 17 May 2007.

NEW DRYING FACILITIES AND TESTING LABORATORY FOR HERBS & SPICES IN UMRANALA

Agricultural & Processed Food Products Export Development Authority (APEDA) and Spices Board under the Ministry of Commerce and Industry, is initiating several projects in Chhindwara, including setting up of Pack Houses, Collection Centres and Spices Park. The Spices Board will set up a Spices Park in an area of 9 acres at Umrana of which, 6 acres has already been acquired. The Park will provide facilities for dehydration of coriander (*Coriandrum sativum*), garlic (*Allium sativum*), green chilli (*Capsicum* spp.) extracts, and turmeric (*Curcuma longa*) as well as for medicinal herbs. Funding of Rs. 9.95 crore (= USD \$2,449,728) for the Spices Park has been sought under the ASIDE Scheme (Assistance to States for Infrastructure Development of Exports). The project will include setting up of a world-class testing laboratory to be set up jointly by State Trading Corporation of India (STC) and Spices Board. Further, National Agricultural Cooperative Marketing Federation (NAFED) is also setting up a Seed Processing Unit at Kusmali at a total cost of Rs.1.25 crore (= USD \$307,754).

SOURCE: Government of India Ministry of Commerce & Industry. APEDA and Spices Board projects in Chhindwara to boost agri sector. *Government of India Press Information Bureau Press Release*. 7 June 2007.

CARDAMOM OUTPUT LIKELY TO DROP 30-40% DUE TO UNFAVORABLE WEATHER

An erratic southwest monsoon this year is likely to delay the next crop of cardamom (*Elettaria cardamomum*) in addition to reducing yields. The plantations in Kerala's Idukki district where much of the Indian cardamom crop is cultivated are in a bad shape due to protracted dry spell. Insufficient rains have exasperated the situation making a recovery of affected cardamom plants almost unlikely mainly in the non-irrigated areas. There were only a few showers in April and the monsoon in late May lasted for barely two days, which was

insufficient for cardamom cultivation. Since 28 May, there has been no rain which has negatively affected flowering and pollination. The Union Agriculture Minister has advised a delegation of cardamom growers to take up measures to harvest rainwater in the cardamom hill areas with support from Spices Board India. Due to the present unfavorable weather conditions, harvesting the next season will be delayed and the first crop might not arrive until the 3rd week of August. Additionally, the total output next season in the States of Kerala and Tamil Nadu is likely to fall by 30-40%. The total production during the current season, which has come to an end, is estimated at about 11,000 tons compared to 12,540 tons for last season. According to the Spices Board, the total area of cardamom cultivation in India in 2003-04 was 73,237 hectares, of which the yield area was at 55,221 hectares. Kerala topped with 41,332 ha (with 30,991 ha yielding area) followed by Karnataka with 26,838 ha (20,510 ha) and Tamil Nadu 5,067 ha (3,720 ha). The yield per ha in the three States was very low with 286 kg, 85 kg and 259 kg respectively.

SOURCE: Nair GK. Cardamom crop may be hit. *Business Line*. 7 June 2007.

BOTANICAL RAW MATERIALS (Indicative prices: US \$ / kg)

Product	Source	Price	Destination
Ajowan (seed) fruit (<i>Trachyspermum ammi</i>)	Gujarat	0.75-1.38	Jamnagar Market
Amla fruit (<i>Phyllanthus emblica</i>)*	India	0.49	Delhi Market
Belleric myrobalan fruit (<i>Terminalia bellerica</i>)*	Nepal	0.17	Nepalgunj Market
Betelnut (<i>Areca catechu</i>)	India	1.5-1.8	Mangalore Market
Black pepper fruit (<i>Piper nigrum</i>)	Cochin	3.65	Cochin Market
Cardamom (<i>Elettaria cardamomum</i>) (small)	Vandan-Mettu	9.12	Auction price
Cardamom, Indian (<i>Amomum subulatum</i>)	Nepal	2.67	Kathmandu Market
Cassia bark (<i>Cinnamomum aromaticum</i>)	Chennai	1.61	Chennai Market
Chebolic myrobalan fruit (<i>Terminalia chebula</i>)*	Nepal	0.31	Kathmandu Market
Chirata herb (<i>Swertia chirayita</i>)*	Nepal	3.17	Kathmandu Market
Cinnamon bark (<i>Cinnamomum verum</i>)	India	1.71	Delhi Market
Clove flower bud (<i>Syzygium aromaticum</i>)	India	6.2-6.7	Cochin Market
Coriander fruit (<i>Coriandrum sativum</i>)	India	0.80-0.93	Mumbai Market
Fennel fruit (<i>Foeniculum vulgare</i>)	India	2.02	Mumbai Market
Fenugreek seed (<i>Trigonella foenum-graecum</i>)	India	0.59	Mumbai Market
Garlic bulb (<i>Allium sativum</i>)	India	0.71	Mumbai Market
Ginger rhizome (<i>Zingiber officinale</i>)	Cochin	1.08-1.21	Cochin Market
"	Nepal	1.13	Kathmandu Market
Guar gum (<i>Cyamopsis tetragonoloba</i>)	India	1.35-1.45	FOB Kandla
Indian cassia bark (<i>Cinnamomum tamala</i>)*	Nepal	0.65	Nepalgunj Market
Indian cassia leaf (<i>Cinnamomum tamala</i>)*	Nepal	0.35	Nepalgunj Market
Psyllium husk (<i>Plantago ovata</i>)	India:		
— Uncleaned, conventional	Gujarat	0.62-1.11	Gujarat Market
— USP-grade, 95% pure, organic **	Rajasthan	5.3	FOB India
— PhEur-grade, 95% pure	Rajasthan	6.25	Germany
Safed musli tuber (<i>Chlorophytum borivillianum</i>)	India	16-17	USA
Senna leaf (<i>Cassia angustifolia</i>)	Tamil Nadu	0.62	FOB Tuticorin
Shatavari root (<i>Asparagus racemosus</i>)	Nepal	4.08	Nepalgunj Market
Turmeric rhizome (<i>Curcuma longa</i>)	India	0.57-1.37	Mumbai Market
Vanilla fruit (<i>Vanilla planifolia</i>), cured beans	India	18.53	India

* Wild Collected — ** Certified Organic

Quality Standards: Monographs providing quality standards and tests for most all of the above listed herbs can be found either in the *Ayurvedic Pharmacopoeia of India* (Volume I, Parts I-V), the *Unani Pharmacopoeia of India*, and/or the *Indian Herbal Pharmacopoeia* Revised Edition 2002.

EXTRACTS & OILS (Indicative wholesale prices: USD \$ / kg)

Product	Standardization	%	Price
Ajowan essential oil	N/A	N/A	12.2
Amla fruit	Tannins	40	17-32

Asafoetida oleoresin	N/A	N/A	46
Bacopa herb	Bacosides	3	32
Capsicum fruit oleoresin	Capsaicinoids	6.6	12
Clove flower bud oil	N/A	N/A	55.3
Clove oleoresin	N/A	N/A	53
Garcinia cambogia fruit	Hydroxycitric Acid (HCA)	50	10-12
Olibanum oil	N/A	N/A	76
Pomegranate fruit	Polyphenols	40	36
Tribulus terrestris	Total saponins	70	45

PRODUCT SPECIFICATIONS
CLOVE ESSENTIAL OIL – Product of INDIA

Product:	Clove Essential Oil
Botanical name:	<i>Syzygium aromaticum</i> (L.) Merr. And L.M. Perry [Fam. Myrtaceae]
Pharmacopoeial name:	Caryophylli floris aetheroleum PhEur
Plant part used:	Dried flower buds
Extraction method:	The essential oil is obtained by steam distillation of the dried flower buds
Packaging:	Store in well-filled, airtight container, protected from light and heat.
Labeling:	The label states the Latin binomial name and, following the official name, the part of the plant source from which the article was derived.

DESCRIPTION

Appearance:	Liquid
Colour:	Clear yellow liquid which becomes brown when exposed to air
Odour:	Strongly aromatic
Taste:	Pungent and burning

PHYSICO-CHEMICAL PROPERTIES

Identification:	Thin-layer chromatography Clove Oil (PhEur 2.2.27)
Relative density:	Between 1.030 and 1.063 (PhEur 2.2.5)
Refractive index:	Between 1.528 and 1.537 (PhEur 2.2.6)
Angular rotation:	0° to -2° (PhEur 2.2.7)
Fatty oils and resinified essential oils:	Complies with the test (PhEur 2.8.7)
Miscibility:	Miscible with methylene chloride, ether, toluene and fatty oils
Solubility:	One volume dissolves in 2 volumes of 70 percent alcohol (PhEur 2.8.10)
Beta-caryophyllene:	5.0 to 14.0 per cent as determined by gas chromatography (PhEur 2.2.28)
Eugenol:	75.0 to 88.0 per cent as determined by gas chromatography (PhEur 2.2.28)
Acetylugenol:	4.0 to 15.0 per cent as determined by gas chromatography (PhEur 2.2.28)

Applications:	For symptomatic relief of toothache, applied directly on the carious tooth with cotton; in dentistry for topical anesthesia and as a component of dental cements and fillings; component of toothpastes and mouth washes.
----------------------	---

MEETINGS AND TRADE SHOWS
INDIA, BANGLADESH, BHUTAN, NEPAL & SRI LANKA

June 18-23, 2007

INTERNATIONAL TRAINING COURSE: CULTIVATION AND UTILIZATION OF MEDICINAL AND AROMATIC PLANTS

Venue: G.B. Pant University of Agriculture and Technology (GBPUA&T), Pantnagar, India
Contact: Education Division, Indian Council of Agricultural Research (ICAR), Krishi Anusandhan Bhavan-II, Pusa Campus, New Delhi-110 012, India

WEB: <http://www.icar.org.in/miscel/inttrg07.pdf>

August 6-9, 2007

IMPROVED PRODUCTION TECHNOLOGY FOR MEDICINAL AND AROMATIC PLANTS

Venue: Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow, India
Contact: Dr. JR Bahl / E-MAIL: jr_bahl@cimap.res.in
WEB: <http://www.cimap.res.in>

November 21-24, 2007

WORLD NEEM CONFERENCE

Venue: Coimbatore, India
Contact: NEEM FOUNDATION, 67- A, Vithalnagar Society, Road # 12, JVPD Scheme, Mumbai - 400 049 India
TEL: + 91 22 26206367 / 26207867 / 26231709 / FAX: + 91 22 26207508
E-MAIL: office@neemfoundation.org
WEB: <http://www.neemfoundation.org/neem2006.htm>

January 28-30, 2008

9th WORLD SPICE CONGRESS & EXHIBITION

Venue: Taj Exotica, Calwaddo, Benaulim, Salcete, Goa 403 716, India
Sponsors: All India Spices Exporters Forum and Spices Board India
Contact: Organising Secretary, World spice congress 2006, P.B No. 2277, Spices Board, Palarivattom. P.O, Cochin - 682025, Kerala, India
Tel: +91 484 2333610 to 616 / Fax: +91 484 2331429, 2334429
E-MAIL: worldspicecongress@gmail.com or spicesboard@vsnl.com
WEB: <http://www.worldspicecongress.com>

Exhibitor profile: A well designed international exhibition will be part of this Congress. On display will be spices, spice related products, services and processing equipments. Pre- or post- Congress visits to major spice growing centres in India. Since the Congress coincides with the harvesting season, there will be an opportunity to view harvesting and post-harvest operations.

January 2008 (dates to be determined)

ASIA PHARMA EXPO 2008

Venue: Bangladesh China Friendship Conference Center (BCFCC), Dhaka. Bangladesh
Supporters: Ministry of Health & Family Welfare, Govt. of Republic of Bangladesh and Export Promotion Bureau, Bangladesh. Endorsed by Bulk Drug Manufacturers Association (India) (BDMA) and The Pharmaceutical Export Promotion Council, India (PHARMEXCIL)
Contact: BANGLADESH ASSOCIATION OF PHARMACEUTICAL INDUSTRIES, BANGLADESH AUSHAD SHILPA SAMITY, House # F-31, Road # 4, Banani, DHAKA - 1213. BANGLADESH
E-MAIL: bdass@bol-online.com
WEB: <http://www.asiapharma.org>

Exhibitor profile includes suppliers of bulk herbal drugs used in Ayurvedic and Unani medicines.

JANUARY 30 - February 1 2008

PANACEA 2008 - NATURAL PRODUCTS EXPO INDIA

Venue: World Trade Centre (WTC) Mumbai, India
Contact: Ms. Tanushree, Head, Corporate Communications. Seishido Communications, -102 Divyastuti Apts, Divyalok Township, Gen. A.K. Vaidya Marg, Film City Rd., Goregaon (E), Mumbai - 400 063, INDIA
TEL: +91.22.28410164, 28403651 / FAX: + 91.22 .28496372
E-MAIL: info@seishidocommunications.com
WEB: www.panaceaforall.com

Exhibitor profile: Suppliers of natural raw materials & ingredients (plant extracts, herbs, spices, natural ingredients, functional food ingredients, cosmeceuticals, oilseeds and oilseed extracts, raw and encapsulated herbs, natural essences, etc.), natural medicinal products (Ayurvedic, Chinese, Homoeopathic, Naturopathic, Siddha, Unani), health foods & beverages (natural & organic foods, dietary supplements, nutritional drinks, soya products, etc).

AFRICA

EXPORT TOTALS FOR SELECTED AFRICAN COUNTRIES

As of June 2007, out of a total of 54 African countries 9 have reported their total 2006 export data thus far; Cape Verde, Gabon, Malawi, Mauritius, Morocco, Senegal, South Africa, Tanzania, and Uganda. The below table summarizes the total 2006 export quantities (kg) for the main categories of medicinal and aromatic plants (MAPs), their extractives and oils. Total exports for 2 of the 9 countries, Cape Verde and Gabon, were insignificant so these have been left out. In terms of quantity of raw materials exported, for these selected countries Malawi ranks #1 at 46,127,398 kg, but this is due almost entirely to tea leaf exports. Tanzania ranks #2 at 38,587,713 kg, Uganda #3 at 27,436,474, Morocco #4 at 25,384,583 kg, and South Africa #5 at 17,671,366 kg. However, if you remove tea leaf quantities, the leading MAP exporter is Morocco. Keep in mind that this table does not yet include data from some of Africa's other leading exporters of MAPs such as Egypt, Nigeria, and Sudan. Morocco's main MAP export category is HS 1211 most of which was exported to France (2,422,813 kg), Belgium (1,559,655 kg), Germany (1,151,837 kg), Spain (850,132 kg), Turkey (760,062 kg), Netherlands (739,179 kg), USA (690,727 kg), and Canada (318,161 kg). Another main export category for Morocco is HS 0909, which includes medicinal fruits of the Apiaceae family. Morocco's HS 0909 exports were mainly to Japan (1,123,145 kg), Netherlands (481,750 kg), France (112,293 kg), Tunisia (81,280 kg), Nigeria (69,000 kg), UK (67,000 kg), and Korea (60,000 kg).

TOTAL 2006 EXPORTS OF SELECTED AFRICAN COUNTRIES / Quantities in Kilograms (kg)							
HS CODE	Malawi	Mauritius	Morocco	Senegal	So Africa	Tanzania	Uganda
0902: Tea leaf	43,990,456	40,810	292,961	12,758	3,505,471	24,825,004	26,975,909
0903: Maté leaf	87,361	30	0	0	26,709	0	0
0904: <i>Piper</i> and <i>Capsicum</i> genera	2,016,959	117,791	753,767	57,609	3,294,493	500,338	217,428
0905: Vanilla	0	3,111	0	200	14,010	0	191,485
0906: Cinnamon	0	25	829	0	15,692	100	0
0907: Clove	50	10,056	0	50	3,047	3,032,843	0
0908: Cardamom, Mace, Nutmeg	0	4	100	28	9,188	246,100	0
0909: Anise, Caraway, Cumin, Coriander, Fennel	2,000	1,079	2,106,577	0	30,725	61,900	98
0910: Ginger, Saffron, Thyme	10,541	28,259	1,516,929	2,957	2,231,069	113,103	32,341
1210: Hops	0	0	0	0	169,975	0	0
1211: Medicinal plants	4	3	10,364,650	504,303	721,922	1,118,213	1,484
121220: Seaweed	0	45	6,972,693	11,000	426,697	7,495,600	0
1301: Gum-resins & oleoresins	0	0	51,271	1,504,404	668,106	965,046	395
1302: Extracts, Saps	0	791	2,483,346	101	1,992,242	94,783	3,241
3301: Essential oils	1,294	770	798,301	11,871	1,345,481	98,972	115
3302: Mixtures of odoriferous substances	18,733	4,035	43,159	560,347	3,216,539	35,711	13,978

SOURCE: United Nations Commodity Trade Statistics Database.

EGYPT

MAY-JUNE EGYPTIAN HARVESTS OF APIACEAE FRUITS: SURPLUS OF ORGANIC ANISE AVAILABLE

During May and June, medicinal and aromatic plants (MAP) of the Apiaceae family are harvested in the El Fayoum Governorate, Arab Republic of Egypt, one the main growing regions for Apiaceae fruits including anise fruit (*Pimpinella anisum*), caraway fruit (*Carum carvi*), coriander fruit (*Coriandrum sativum*), cumin fruit (*Cuminum cyminum*), and fennel fruit (*Foeniculum vulgare*). In addition to the large-scale cultivation of Apiaceae MAPs, other main herbal crops in Fayoum include chamomile (*Matricaria recutita*), peppermint (*Mentha × piperita*), spearmint (*Mentha spicata*), and sweet marjoram (*Origanum majorana*). One company, Egyptian Bio Aloe Vera & Organic Herbs Co., presently has a 7 metric ton (MT) surplus available of certified organic anise fruit (Anisi fructus) being offered at 4700 EUR / MT (= \$6,319 USD / MT), on basis FOP Hamburg, Germany. The Egyptian Bio Aloe Vera & Organic Herbs Co. is also able to supply up to 40 tons annually of certified organic aloe vera gel. Contact details below.

CONTACT: Eng. Mohamed El-Kholy, Egyptian Bio Aloe Vera & Organic Herbs Co. 35 Basateen Str. Agamieen, Fayoum, Egypt. TEL: +2(0)2 388 1391, FAX: +2(0)2 528 2208, MOB: +2 (0)10 612 3080, E-MAIL: melkholy@mail.eun.eg, or Prof. Dr. M.S.A. Safwat, E-MAIL: said.safwat@gmail.com

BOTANICAL RAW MATERIALS (Indicative prices: US \$ / kg)

Product	Source	Price	Destination
Anise fruit (<i>Pimpinella anisum</i>) **	Fayoum, Egypt	6.32	FOP Hamburg
Caraway fruit (<i>Carum carvi</i>)	Beni Suef, Egypt	0.76	FOB Alexandria
Chamomile flower (<i>Matricaria recutita</i>)	Beni Suef, Egypt	2.65	FOB Alexandria
Cinnamon bark (<i>Cinnamomum verum</i>)	Madagascar	1.4	CIF
Clove flower bud (<i>Syzygium aromaticum</i>)	Madagascar	4.52	Spot New York
“	Madagascar	2.7	CIF EU Ports
Fennel fruit (<i>Foeniculum vulgare</i>)	Egypt	0.76	FOB Alexandria
“	Egypt	1.61	Spot New York
Ginger rhizome (<i>Zingiber officinale</i>)	Nigeria	1.37-1.54	CIF
Gum arabic (<i>Acacia senegal</i>)	Nigeria	2.8	CIF EU Ports
“	Sudan	2.6	FOB Kordofan
Hibiscus flower (<i>Hibiscus sabdariffa</i>)	Beni Suef, Egypt	1.43	FOB Alexandria
“	Sudan	4.0	FOD Sudan
Peppermint leaf (<i>Mentha × piperita</i>)	Beni Suef, Egypt	2.13	FOB Alexandria
Spearmint leaf (<i>Mentha spicata</i>)	Beni Suef, Egypt	1.6-1.64	FOB Alexandria
Spearmint leaf (<i>Mentha spicata</i>) **	Egypt	6.3-6.5	FOB Egypt
Tea leaf (<i>Camellia sinensis</i>)	Kenya	1.9-2.6	Kenya Auction
Vanilla fruit (<i>Vanilla planifolia</i>)	Madagascar	18.9-20.5	CIF USA

** Certified Organic – * Wild Collected

Quality Standards: Official monographs providing quality standards and tests for most the above listed botanical raw materials can be found in either the Egyptian Pharmacopoeia (3rd edition, 1984; available in Arabic and English editions), the Ghana Herbal Pharmacopoeia (1992), and/or the European Pharmacopoeia (PhEur 5th edition 2005).

BOTANICAL EXTRACTS & OILS (Indicative prices: USD \$ / kg)

Product	Standardization	%	Price
Caraway fruit (<i>Carum carvi</i>)	Essential oil	N/A	95
Clove leaf (<i>Syzygium aromaticum</i>)	Essential oil	N/A	6.85
Hoodia dry extract (<i>Hoodia gordonii</i>)	20 : 1 (w/w)	N/A	250-285
Pygeum bark extract (<i>Prunus africana</i>)	Total sterols	12	45-49
Pygeum bark extract (<i>Prunus africana</i>)	Total sterols	20	104.5
Yohimbe bark extract (<i>Pausinystalia johimbe</i>)	Yohimbine	8	65-75

PRODUCT SPECIFICATIONS
MYRRH TINCTURE
Product of AFRICA

Product:	Myrrh Tincture 1:5
Botanical name:	<i>Commiphora molmol</i> Engler and other related species of <i>Commiphora</i> other than <i>Commiphora mukul</i> (Fam. Burseraceae)
Pharmacopoeial name:	Myrrhae tincturae USP
Plant part used:	Oleo-gum resin obtained from stems and branches
Extraction solvent:	Mixture of alcohol and water (85:15)
Drug-to-extract ratio:	1 : 5 (w/v)
Storage:	Store in tight, light-resistant containers, and avoid exposure to direct sunlight and excessive heat. Plastic containers are not recommended.
Labeling:	(1) Label it to indicate that it is intended for topical and oropharyngeal use only; (2) Label it to indicate the name of the plant part used for preparation; the name of the solvent or solvent mixture used for extraction; the content of alcohol as a percentage (v/v) of C ₂ H ₅ OH; and the content of the constituents of interest and the ratio of starting material to final product.

Physical Analysis

Appearance:	Liquid
Color:	Clear yellowish-brown or orange-brown
Odor:	Characteristic and aromatic
Taste:	Bitter and acrid

Chemical Analysis

Identification:	As determined by Myrrh TLC Identification Test (USP <201>)
Alcohol content:	Between 90.0% and 110.0% of the labeled amount (USP <611> Method II)

Applications:	According to the European Scientific Cooperative On Phytotherapy (ESCO): As a gargle or mouthwash, 1-5 ml of myrrh tincture in a glass of water several times daily for topical treatment of gingivitis, stomatitis (aphthous ulcers), supportive treatment for pharyngitis, and tonsillitis.
----------------------	---

MEETINGS AND TRADE SHOWS
AFRICA AND MIDDLE EAST

August 8-10, 2007

THE FIRST REGIONAL SCIENTIFIC CONFERENCE ON ARABIC AND ISLAMIC MEDICINE

Venue:	Amman, Jordan
Organizers:	Antaki Center for Herbal Medicine Ltd (http://www.al-antaki.com), The Galilee Society (http://www.gal-soc.org/ar)
Contact:	Ms. Razan A. Zuayter, APN, P.O. Box 811815, Amman 11181, Jordan, TEL: +962 6 5673331 FAX: +962 6 5699777
E-MAIL:	agpnature@go.com.jo or medplantamman@gmail.com
WEB:	http://www.arabic-islamic-medicine.com

Conference topics: Cultivation of Arabic medicinal plants and extraction of bioactive ingredients, intellectual property rights, among others.

Exhibition: Parallel to the conference an exhibition will take place where companies and organizations will present their products, services and technical publications in an international context.

December 4-6, 2007

ARAB NATURALS 2007

Venue: Grand Thuraya Ballroom, Beach Rotana Hotel & Towers, Abu Dhabi, United Arab Emirates

Presenter: Emirate of Abu Dhabi Health Authority, The Zayed Complex for Herbal Research & Traditional Medicine (UAE Ministry of Health), in collaboration with World Health Organization

E-MAIL: info@arabnaturalsexpo.com

WEB: <http://www.arabnaturalsexpo.com>

Exhibitor profile: Botanical raw materials, essential oils, traditional medicine products (Ayurveda, Homeopathic, Naturopathic), dietary supplements, organic foods, natural juice, aromatherapy products, and more.

December 10-14, 2007

TRAINING COURSE: SUPPORT TO AFRICAN COUNTRIES WITHIN THE GEF PROJECT ON CONSERVATION, DOMESTICATION AND MAINSTREAMING OF MEDICINAL, OIL-BEARING, AROMATIC AND PESTICIDAL PLANTS (MOAPPs) IN WEST AFRICA

Venue: Guinea

Organizer: International Centre for Science and High Technology (ICS) United Nations Industrial Development Organization (UNIDO), Industrial Utilization of Medicinal and Aromatic Plants

Contact: elisa.roa@ics.trieste.it

WEB: http://www.ics.trieste.it/ActivityDetails.aspx?pcode=2.3&idx=15&activity_id=501

December 16-18, 2007

MIDDLE EAST NATURAL & ORGANIC PRODUCTS EXPO 2007

Venue: Dubai International Convention and Exhibition Centre (DICEC), Dubai, United Arab Emirates

Support: The UAE Ministry of Health, UAE Ministry of Agriculture & Fisheries, International Federation of Organic Agriculture Movements (IFOAM), Greentrade.net (France), and the Korean Health Supplement Association (KHSAs).

Contact: Global Links, PO Box, 86882, Dubai, United Arab Emirates

TEL: 971-4-268-6010

FAX: 971-4-268-6026

E-MAIL: info@globallinksdubai.com

WEB: <http://www.globallinksdubai.com>

Exhibitor profile: Herbs & spices, herbal extracts, herbal teas & coffees, phytopharmaceutical products, traditional medicines (Ayurveda, Homeopathic, Naturopathic), dietary supplements, organic foods, natural juice, aromatherapy products.

2008 [dates to be determined]

WORLD CONGRESS ON MEDICINAL AND AROMATIC PLANTS FOR HUMAN WELFARE (WOCMAP IV)

Venue: Cape Town, South Africa

Organizer: International Council for Medicinal and Aromatic Plants (ICMAP)

WEB: <http://www.icmap.org>

SPECIFICATIONS AVAILABLE FROM MNS BACK ISSUES

HERB OR EXTRACT	REGION	MNS EDITION
American ginseng root PE	North America	MNS 5 - December 2002
Amla fruit PE	India	MNS 16 - September 2005
Andrographis herb PE	India	MNS 3 - June 2002
Arnica flower SE	Western Europe	MNS 1 - September 2001
Artemisia Essential Oil	India / Nepal	MNS 14 - March 2005
Artichoke leaf PE	Western Europe	MNS 6 - March 2003
Ashwagandha root PE	India	MNS 5 - December 2002
Asian ginseng root PE	Japan	MNS 4 - September 2002
Bacopa herb PE	India	MNS 11 - June 2004
Benzoin tincture, compound	North America	MNS 23 - June 2007
Bilberry fruit	Eastern Europe	MNS 16 - September 2005
Birch leaf	Eastern Europe	MNS 21 - December 2006
Bitter orange fruit PE	China	MNS 21 - December 2006
Black cohosh rhizome PE	North America	MNS 4 - September 2002
Black currant dry extract	Western Europe	MNS 17 - December 2005
Bladderwrack thallus	Canada	MNS 20 - September 2006
Boswellia serrata PE	India	MNS 9 - December 2003
Calendula tincture	Eastern Europe	MNS 23 - June 2007
California poppy herb	USA	MNS 18 - March 2006
Caralluma extract	India	MNS 21 - December 2006
Châ-de-bugre dry extract	South America	MNS 21 - December 2006
Chaste tree fruit	Eastern Europe	MNS 9 - December 2003
Chaste tree fruit	Africa	MNS 16 - September 2005
Chaste tree fruit extract	Western Europe	MNS 16 - September 2005
Chinese cinnamon bark	China	MNS 19 - June 2006
Chinese hawthorn fruit PE	China	MNS 1: Sept 2001 / MNS 16: Sept 2005
Cinnamon bark PE	China	MNS 13 - December 2004
Clove bud tincture	India	MNS 23 - June 2007
Cola nut	Africa	MNS 7 - June 2003
Cola nut dry extract	Western Europe	MNS 21 - December 2006
Coriander fruit Essential Oil	North America	MNS 12 - September 2004
Corydalis Yanhusuo Tuber	China	MNS 18 - March 2006
Cranberry fruit dry conc	North America	MNS 16 - September 2005
Damask Rose Essential Oil	Eastern Europe	MNS 17 - December 2005
Danggui root PE	China	MNS 12 - September 2004
Devil's claw root PE	Western Europe	MNS 3 - June 2002
Echinacea herb & root PE	North America	MNS 8 - September 2003
Echinacea root PE	Western Europe	MNS 12 - September 2004
Eleuthero root PE	China	MNS 11 - June 2004
Epimedium herb PE	China	MNS 15 - June 2005
European vervain	Africa	MNS 15 - June 2005
Fennel fruit	Africa	MNS 9 - December 2003
Fenugreek seed	Africa	MNS 12 - September 2004
Fenugreek seed PE	India	MNS 12 - September 2004
Feverfew leaf PE	Western Europe	MNS 2 - March 2002
Flax seed	North America	MNS 9 - December 2003
Garcinia fruit extract	India	MNS 15 - June 2005
Garlic bulb granules	North America	MNS 15 - June 2005
Garlic bulb PE	China	MNS 9 - December 2003
"	North America	MNS 22 - March 2007
Garlic oil macerate	Western Europe	MNS 22 - March 2007
Ginger rhizome PE	China	MNS 4 - September 2002
Ginkgo leaf PE	Japan	MNS 5 - December 2002
Goldenseal rhizome	North America	MNS 2 - March 2002

Gotu kola herb PE	India	MNS 4 - September 2002
Grape fruit PE	Eastern Europe	MNS 5 - December 2002
Greater celandine herb	Eastern Europe	MNS 18 - March 2006
Green tea leaf PE	China	MNS 2 - March 2002
"	China	MNS 23 - June 2007
Griffonia seed	Africa	MNS 8 - September 2003
Guarana seed PE	Western Europe	MNS 9 - December 2003
Guggul resin PE	India	MNS 1: Sept 2001 / MNS 6: March 2003
Gynostemma herb PE	China	MNS 10 - March 2004
Henna leaf	Africa	MNS 13 - December 2004
Hibiscus flower	Africa	MNS 17 - December 2005
Holarrhena bark / root	Africa	MNS 14 - March 2005
Hoodia gordonii extract	Africa	MNS 21 - December 2006
Hop strobile PE	North America	MNS 10 - March 2004
Iceland moss	Eastern Europe	MNS 20 - September 2006
Ivy leaf PE	Western Europe	MNS 13 - December 2004
Juniper fruit Essential Oil	Eastern Europe	MNS 10 - March 2004
Kohki leaf	Japan	MNS 3 - June 2002
Lavender flower Essen Oil	Eastern Europe	MNS 12 - September 2004
Lemon balm leaf PE	Western Europe	MNS 7 - June 2003
Licorice root PE	China	MNS 3 - June 2002
Licorice root PE	Japan	MNS 1 - September 2001
Long-stamen onion bulb	China	MNS 22 - March 2007
Maca hypocotyl PE	Peru	MNS 17 - December 2005
Maritime pine bark	Western Europe	MNS 19- June 2006
Maté leaf PE	Western Europe	MNS 8 - September 2003
Meadowsweet herb	Eastern Europe	MNS 13 - December 2004
Milk thistle fruit PE	Eastern Europe	MNS 1: September 2001 / MNS 7: June 2003
Myrrh tincture	Africa	MNS 23 - June 2007
Neem leaf PE	India	MNS 7 - June 2003
Nettle root PE	Western Europe	MNS 4 - September 2002
Olive leaf PE	Western Europe	MNS 11 - June 2004
Onion essential oil	Africa	MNS 22 - March 2007
Onion juice concentrate, pwd	Eastern Europe	MNS 22 - March 2007
Onion oleoresin	India	MNS 22 - March 2007
Opium poppy latex	India	MNS 18 - March 2006
Parmelia lichen extract	India / Nepal	MNS 20 - September 2006
Peony root	Japan	MNS 2 - March 2002
Pepper fruit PE	India	MNS 13 - December 2004
Pepper mint leaf Essent Oil	North America	MNS 11 - June 2004
Pomegranate fruit PE	Western Europe	MNS 14 - March 2005
Psyllium husk	India	MNS 10 - March 2004
Pygeum bark	Africa	MNS 19 - June 2006
Red clover herb PE	North America	MNS 6 - March 2003
Red poppy extract	Western Europe	MNS 18 - March 2006
Red poppy petals	Africa	MNS 18 - March 2006
Reishi mushroom PE	China	MNS 5 - December 2002
Rhatany root FE	North America	MNS 14 - March 2005
Rhatany tincture	Western Europe	MNS 23 - June 2007
Rooibos leaf PE	Western Europe	MNS 15 - June 2005
Rosemary leaf Essent Oil	Africa	MNS 10 - March 2004
Rosemary leaf PE	North America	MNS 1 - September 2001
Safed musli root	India	MNS 17 - December 2005
Sage leaf	Eastern Europe	MNS 8 - September 2003
Sandalwood heart wood	India	MNS 19 - June 2006
Sargassum thallus	China	MNS 20 - September 2006
Saw palmetto fruit SE	North America	MNS 3 - June 2002

Schisandra fruit PE	China	MNS 6 - March 2003
Sea buckthorn fruit PE	China	MNS 7 - June 2003
Senna pod	Africa	MNS 6 - March 2003
Senna pod & leaf PE	India	MNS 8 - September 2003
Slippery elm bark	North America	MNS 19 - June 2006
Spearmint leaf	Africa	MNS 11 - June 2004
St. John's Wort herb PE	Western Europe	MNS 10 - March 2004
Stinging nettle root	Eastern Europe	MNS 15 - June 2005
Sweet wormwood herb EO	Eastern Europe	MNS 14 - March 2005
Sweet wormwood leaf PE	China	MNS 14 - March 2005
Tribulus fruit PE	China	MNS 17 - December 2005
"	India	MNS 2 - March 2002
Tribulus root PE	Eastern Europe	MNS 6 - March 2003
Usnea lichen extract	Western Europe	MNS 20 - September 2006
Uva ursi leaf PE	Eastern Europe	MNS 2 - March 2002
Valerian root	Eastern Europe	MNS 3 - June 2002
Valerian root PE	Eastern Europe	MNS 4 - September 2002
White tea leaf PE	China	MNS 8 - September 2003
Wild cherry bark FE	North America	MNS 13 - December 2004
Wild yam root PE	North America	MNS 7 - June 2003
Willow bark	Eastern Europe	MNS 19 - June 2006
Willow bark PE	Western Europe	MNS 5 - December 2002
Yarrow herb Essential Oil	Eastern Europe	MNS 11 - June 2004

MNS GLOBAL HERB TRADE ASSOCIATION DIRECTORY

MNS provides a global directory of herb trade associations, collectives, councils, and export promotion organizations that represent the growers, wild collectors, producers, and traders of botanical raw materials, extracts and oils, and other herbal products. To add your association contact details, or to update or correct the below-listed details, please contact ITC Consultant, Josef Brinckmann at: brink@sonic.net

AFRICA

Agribusiness in Sustainable Natural African Plant Products (ASNAPP), GHANA - M.B. (18) Kanda, Accra H/NO C 205/29, Mempeasem, East Legon, Accra, Mr. Dan Acquaye, TEL: +233 21 505-617, FAX: +233 21505-617, E-MAIL: asnappwest@yahoo.com / WEB: <http://www.asnapp.org/>

Assila Medicinal and Aromatic Plant – AL AMAL Association, MOROCCO - Mlle. EL BOUAANANI Malika, CELL: 072 69 84 26

Association féminine des herbes médicinales et aromatiques de Beni yider, MOROCCO - Commune rurale beni yider, Ben Kerrich, Tétouan, Morocco, TEL: 061.55.44.92

Association for African Medicinal Plants Standards (AAMPS), SOUTH AFRICA - Prof Kobus Eloff, Phytomedicine Programme, University of Pretoria, E-MAIL: kobus.eloff@up.ac.za or Denzil Phillips, CDE Associate Expert Herbs and Pharmaceuticals. E-MAIL: denzil@denzil.com
WEB: <http://www.aamps.net/>

Association Marocaine des Plantes Aromatiques et Médicinales (AMAPAM), MOROCCO - Mr. Mohamed Marzouk / cell: (+212)63 48 45 40 / E-MAIL: contact@nohafleur.com; Mr. Drissi Hassan / cell: (+212)67637176 E-MAIL: fidanature@menara.ma .

Association Marocaine pour le Développement des Plantes Aromatiques et Médicinales (ADEPAM), MOROCCO - ABOULKACEM Hassan or Mrs. ZRIRA Saadia / TEL: (+212)37.77.1745 / E-MAIL: s.zira@iav.ac.ma, IAV Hassan II, DIA, BP. 6202, Rabat-Instituts.

Association pour les Plantes Aromatiques et Médicinales de la Reunion (APLAMEDOM), REUNION - 1, rue Emile Hugot, Batiment B, Parc Technologique de Saint-Denis 97490 Sainte Clotilde, TEL: 0262.90.7194 / E-MAIL: contact@aplamedom.com / WEB: <http://www.aplamedom.com>

Association Tunisienne des Plantes Médicinales, TUNISIA, Hammam Sousse, FAX: 71.783.928

Botanical Products Association of Ghana (BOTPAG), GHANA
WEB: <http://www.asnapp.org/partners/ghana.html>

Devil's Claw Working Group, NAMIBIA - PO Box 23778, Windhoek, TEL: +061-220117, FAX: +061-232293, E-MAIL: criaawhk@iafrica.com.na / WEB: <http://www.criaasadc.org/devilsclaw.htm>

Egyptian Society for the Producers, Manufacturers and Exporters of Medicinal and Aromatic Plants (ESMAP), EGYPT - Dr. Farouk Elshobaki, 1 Elhefnawy St., Fatma Roshdi St., Elharam, Elgiza, TEL: +202 38 69 898, FAX: +202 38 41 120, Mobile: 012 / 3101839, E-MAIL drfarouk@elshobaki.com / WEB: <http://www.esmap.org.eg/>

Egyptian Spices and Herb Export Development Association (ESHEDA), EGYPT -

Ethiopian Pulses, Oil Seeds and Spices Processors Exporters' Association (EPOSPEA), ETHIOPIA - Elias Genete, P.O. Box 8686 Addis Ababa, TEL: +251-0911(670040), E-mail: agroprom@ethionet.et, WEB: <http://www.epospea.com>

Herb Sellers Association of Nigeria, NIGERIA - Mrs. Quincy Ayodele

Hoodia Growers Association of Namibia (HOGAN). NAMIBIA, Windhoek - Dougal Bassingwaite (Chair person), Charlie Hartung (vice Chair person),

Phyto Trade Africa - The Southern African Natural Products Trade Association (SANPTA), ZIMBABWE - PO Box BE 385, Belvedere, Harare, TEL: +263-91-264-107, FAX: +263-4-723-037
E-MAIL: info@phytotradeafrica.com / WEB: <http://www.sanprota.com/>

Regional Medicinal & Herbal Plants Network (MHPN) of the Association of Agricultural Research Institutions in the Near East and North Africa (AARINENA), EGYPT - Dr. M.S.A. Safwat, Tel: 02/5250310, Fax: 02/6329253, Mobile: 012/3236751
E-MAIL: Focalpoint_mhpaarina@yahoo.com

Société Marocaine des Plantes Aromatiques et Médicinales (SOMAPAM): Pr. Ismaili Alaoui My Mustapha/ TEL: (+212)37776859/ E-MAIL: m.ismaili@iav.ac.ma or Pr. EL Ghafari Houssin/ E-MAIL: elrhaffari@yahoo.fr

Uganda Commercial Aloe Vera Farmers' Association, UGANDA - Mr. Ali Ssesanga, Plot 6 Rashid Khamisi Road, P.O. Box 6179 Kampala, Uganda, TEL: 041 345737 / 077 2 696702, E-MAIL: ssesangaali@yahoo.com

Union of Producers and Exporters of Horticultural Crops (UPEHC), EGYPT - Ministry of Agriculture Building, Dokky, Giza, TEL: +20 (2) 337-2402 760-0986, FAX: +20 (2) 749-3471
E-MAIL: mail@upehc.org.eg / WEB: <http://www.upehc.org.eg/>

ASIA

Aromatic-Medicinal Plants Growers Association of India (APGAI), INDIA - President Thakur Randhir Singh

Asian Medicinal Plants & Health Care Trust (AMPHCT), INDIA - Sonamukhi Nagar, Sangaria Fanta, Salawas Road, Jodhpur - 342 005 Rajasthan, India, TEL: 0091.291.2748488, FAX: 0091.291.5120509
E-MAIL: amptrust@yahoo.com

Business Promotion Council for Herbal Sector of the Bangladesh Export Promotion Bureau, BANGLADESH - Dhaka, 1215, Bangladesh, TEL: 880-2-9144821-3, FAX: 880-2-9119531
WEB: http://www.epb.gov.bd/herbal_plants.htm

China Chamber of Commerce of Medicines & Health Products Importers & Exporters (MHPIE) CHINA - WEB: <http://www.mhpie.com>

China Essential oils, Aroma & Spice Trade Association (CHINAEASA) CHINA - under China Chamber of Commerce for Import / Export of Foodstuffs, Native Produce and Animal By-products (CFNA), No.21 XiTangZi Lane, DongCheng District, Beijing, P.R. China 100006, TEL: +86-10-65132567, +86-10-65132390, FAX: +86-10-65227911, +86-10-65139064, Email: w@cccfn.org.cn

Federation of Indian Herbal Industry (FIHI), INDIA - New No 41, Circular Road, United India Colony, Kodambakkam, Chennai - 600 024. Tamil Nadu, INDIA, TEL: 91-44-24803291 / 24818877 / FAX: 91-44-24724427 / E-MAIL: fihi@fihionline.com / bkurup@fihionline.com
WEB: <http://www.fihionline.com/aboutus.htm>

Herbal Farmers Association, Guntakal, INDIA - Hanumesh Nagar, 20/1483, Guntakal, Andhra Pradesh, India, 515 801

Herbs & Herbal Export Promotion Association of India (HEPAI) INDIA - 207, Silver Arch plaza 20/1 New Palasia, Indore - 452001 - (MP) INDIA, TEL: 91-731-3018833-34-35; FAX: 91-731-2435003; MOB: +91-94250-59407, +91-9302121830; E-MAIL: contact@hepai.org / WEB: <http://www.hepai.org>

Herbs & NTFP Coordination Committee of the Asia Network for Sustainable Agriculture and Bioresources (ANSAB), NEPAL - Mr. Bishma P. Subedi, P.O. Box 11035, Kathmandu, Nepal, TEL: (977-01)-4497547/4478412, FAX: (977-01)-4476586 / E-MAIL: ansab@ansab.org

WEB: <http://www.ansab.org/index.htm>

Indian Society for Spices (IISR) INDIA - Kozhikode - 673 012, Kerala, India / WEB: <http://www.spicesociety.org/>

International Seabuckthorn Association, CHINA - Mr. Lu Shunguang, E-MAIL: henry@icrts.org
WEB: <http://www.icrts.org/index.htm>

Lauhal & Spiti Seabuckthorn Society, INDIA - Lauhal & Spiti District, Himachal Pradesh, India

Malabar Herbs & Musli Growers Society (Regd), INDIA - Abraham Kurian, Treasurer, T.C.4/1082, Kripa Bhavan, R.P.Lane, A-7, Kawadiar.P.O, Trivandrum Dist; Kerala. Pincode: 695003, TEL: +91.471.5538863, +91.471.2437185, MOBILE: +91.989.5187185, FAX: +91.471.2316314
E-MAIL: abr_bincy@hotmail.com / WEB: <http://www.mhmg.com/>

Medicinal and Aromatic Plants Program in Asia (MAPPA), INDIA - Madhav Karki, Ph.D., IDRC/SARO, 208 Jor Bagh Rd, New Delhi, 110 003, India, TEL. (91-11) 24619411 ext. 104 / FAX. (91-11) 24622707
E-MAIL: mappa@idrc.org.in / WEB: http://web.idrc.ca/en/ev-19908-201-1-DO_TOPIC.html

Modernized Chinese Medicine International Association, CHINA - Hong Kong G.P.O. Box 5301, TEL: 2492-2713, FAX: 2906-9330, E-MAIL: mcmia@mcmia.org / WEB: <http://www.mcmia.org/>

National Medicinal Plants Board (NMPB), INDIA - Government of India Department of AYUSH (Ayurveda, Yoga & Naturopathy, Unani, Siddha & Homoeopathy / WEB: <http://nmpb.nic.in/index.htm>

Nepal Herbs and Herbal Products Association (NEHHPA), NEPAL - Bhaweshwor Das, general secretary, GPO Box No 8941, Dhumbarahi, Kathmandu, Nepal, TEL: 977-1-428773, 4437827, FAX: 977-1-4437827, E-MAIL: info@nepalherbs.org / WEB: <http://www.nepalherbs.org/>

Pharmaceuticals Export Promotion Council (Pharmexcil) INDIA - H.O.: 101, Aditya Trade Centre, Ameerpet, Hyderabad - 500038, India, TEL: 040-23735462 / 23735466 / FAX: 91.40.23735464 / E-MAIL: info@pharmexcil.com / WEB: <http://www.pharmexcil.com>

Samagra Adivasi Medicinal Plants Development Association (SAMPDA) INDIA - D.N.K. Colony Kondagaon - 494226, Baster (Chhattisgarh), India, TEL: (07786) 242506, FAX: (07786) 242980
E-MAIL: info@sampda.org / WEB: <http://www.sampda.org/>

Shellac and Forest Products Export Promotion Council (SHEFEXIL) INDIA - International Trade Facilitation Centre, 1/1 Wood Street, 2nd Floor, Kolkata - 700 016, India, WEB: <http://www.shellacepc.com>

Spice & Food Stuff Exporters Association of India (SFEAI) INDIA - 106, Swasti House, 1st Floor, 70 Kazi Sayed Street, Mumbai 400 003, India, E-MAIL: sfea@mtnl.net.in or kkcdipak@bom3.vsnl.net.in
WEB: <http://www.sfeaindia.net/>

Spices Board of India (SBI), INDIA - Government of India Ministry of Commerce
WEB: <http://www.indianspices.com/>

Tuticorin Senna Exporters Association (TSEA), INDIA - P.S.S. Ramachandran, President. Tuticorin, Tamil Nadu, India.

Vietnamese Association of Medicinal Materials, VIETNAM - TEL: (04) 9262554, Fax: (04) 9262550, Email: nctq02@yahoo.com / hopthu@caythuocquy.info.vn, WEB: <http://caythuocquy.info.vn>.

AUSTRALIA

Australian Ginseng Growers Association (AGGA), P.O. Box 250, GEMBROOK, VIC 3783 AUSTRALIA,
TEL +61 3 5968 1321, FAX +61 3 5968 1119, E-MAIL: info@ginseng.org.au
WEB: <http://www.ginseng.org.au/>

Australian Tea Tree Industry Association (ATTIA), PO Box 20, Tweed Heads NSW 2485, Australia,
TEL : +61 (02) 66742925, FAX: +61 (02) 66742475, E-mail: enquiries@teatree.org.au
WEB: <http://www.teatree.org.au/index.html>

The Australian Lavender Growers' Association Inc (TALGA), The Secretary TALGA Inc, PO Box 1296, Richmond North Victoria, 3121 Australia, E-MAIL: secretary@talga.com.au
WEB: <http://www.talga.com/>

CANADA

Associated Ginseng Growers of British Columbia (AGGBC), Box 241, Vernon, B.C. V1T 6M2 Canada,
TEL: (250) 545-4737, FAX: (250) 545-0479, E-MAIL: info@bcginsenggrowers.com
WEB: <http://www.bcginsenggrowers.com/>

British Columbia Herb Growers Association (BCHGA), C/O 33511 Kinsale Place, Abbotsford, B.C.,
Canada V2S 8B2, Tel/Fax: 604.504.5990, E-mail: info@bcherbgrowers.com
WEB: <http://www.bcherbgrowers.com/>

British Columbia Sea Buckthorn Growers Association, Box 471, Vernon, British Columbia V1T 6M4
Canada TEL: 250.542.1816, E-MAIL: panaxqas@junction.net
WEB: <http://www.hippophae.com/membership.htm>

Canadian Herb, Spice and Natural Health Products Coalition, c/o Saskatchewan Herb and Spice
Association (SHSA), Box 19 Phippen, Saskatchewan, TEL: 306.694.4622, FAX: 306.694.2182
E-MAIL: shsa@imagewireless.ca

Canadian Spice Association (CSA), 885 Don Mills Road, Suite 301, Don Mills, Ontario M3C 1V9, E-
MAIL: info@canadianspiceassociation.com / WEB: <http://www.canadianspiceassociation.com/>

Filière des plantes médicinales biologiques du Québec, C.P. 43, Magog (Québec) J1X 3W7 Canada,
TEL: 819.847.2676, FAX: 819.847.1862, E-MAIL: fpmq@plantesmedicinales.qc.ca
WEB: <http://www.plantesmedicinales.qc.ca/index.html>

Medicinal & Aromatic Plants Association of Manitoba, PO Box 20024, Selkirk, Manitoba R1A 1S0
Canada, TEL: (204) 766-2669, FAX: (204) 482-8667

National Herb and Spice Coalition (NHSC), c/o SHSA, Box 18 Phippen, Saskatchewan. S0K 3E0
Canada TEL: 306-694-4622, FAX: 306-694-2182, E-MAIL: shsa@imagewireless.ca
WEB: <http://www.nationalherbspice.com/>

Northern Alberta Herb Growers, 8716 - 112 Street, Fort Sask., AB T8L 2S8 Canada TEL: (780) 997-
4372) / FAX: (780) 998-0078 / WEB: <http://www.nabherb.com/content/home.shtml>

Ontario Ginseng Growers Association (OGGA), 1283 Blueline Road, Simcoe, Ontario N3Y 2N5
Canada, TEL: (519) 426-7046 / FAX: (519) 426-9087 / E-MAIL: admin@ginsenggrowers.com
WEB: <http://www.ginsengontario.com>

Ontario Herb Growers and Marketers Initiative E-mail info@OntarioHerbs.com
WEB: <http://www.ontarioherbs.com/>

Saskatchewan Herb and Spice Association (SHSA), Box 19 Phippen, Sask. S0K 3E0 Canada
E-MAIL: lonewolf@sasktel.net / WEB: <http://www.saskherbspice.org/>

Quebec Seabuckthorn Growers' Association (APAQ), 30, rue Sainte-Marguerite, Beaupré (Qc) G0A 1E0, CANADA, E-MAIL: info@argousier.qc.ca / TEL: 418.827.1659
WEB: <http://www.argousier.qc.ca/eng>

Western Canadian Organic Herb and Spice Association, PO Box 16, Opal, Alberta
T0A 2R0 Canada, TEL: (780) 909-1634, FAX: (780) 942-3992 / E-mail: wcdnherb@telusplanet.net

CARIBBEAN ISLAND NATIONS

Caribbean Herbal Business Association (CHBA), 3 Herbert Street, St. Clair, Port of Spain, Trinidad,
West Indies, TEL: (868) 628-4403 / FAX: (868) 628-4562 / WEB: <http://www.caribbeanherbs.org/>

Jamaican Herbal Business Association (JHBA), a local chapter of the Caribbean Herbal Business
Association, Dr. Diane Robertson, President / E-MAIL: docdee@hotmail.com

EUROPE

Albanian Spice and Herbal Trade Association (ASHTA), ALBANIA - Contact details not available

Arctic Flavours Association (AFA), FINLAND - Kauppakatu 20, 89600 SUOMUSSALMI, Finland, TEL:
+358-8-61 555 590, +358-8-61 555 591 / FAX: +358-8-61 555 592 / E-MAIL: info@arctic-flavours.fi or
simo.moisio@arctic-flavours.fi / WEB: <http://www.arctic-flavours.fi>

Asociación Catalana de Productores de Plantas Aromáticas y Medicinales (ACPPAM), SPAIN -
Cataluña / E-MAIL: acppam@ctfc.udl.es

Asociación Española de Fabricantes de Preparados Alimenticios Especiales, Dietéticos y Plantas
Medicinales (AFEPADI), SPAIN - C/ Aragón, 208-210 Atico 4ª 08011 - Barcelona, TEL: 93.454.87.25,
FAX: 93.451.31.55, E-MAIL: afepadi@afepadi.org / WEB: <http://www.afepadi.org/>

Association for Medicinal and Aromatic Plants of Southeast European Countries (AMAPSEEC),
SERBIA AND MONTENEGRO - Tadeuša Koščuška 1, 11000 Belgrade TEL: (+38111) 3031-653, FAX:
(+38111) 3031-649, E-MAIL: office@amapseec.org / WEB: <http://www.amapseec.org/>

Association of Delegates of the Professional Organizations of Producers and Collectors of
Medicinal and Aromatic Plants of the EEC, FRANCE - 6 bd Marechal-Joffre, F-91490 Milly-la-Forêt

Association of Medicinal Plants and Wild Forest Products of Bosnia and Herzegovina, BOSNIA AND
HERZEGOVINA - Foreign Trade Chamber of Bosnia and Herzegovina, Department of Branch
Associations, Branislava Đurđeva 10, BIH-71000 Sarajevo / TEL: +387.33.202.968, FAX:
+387.33.214.292

British Herb Trade Association (BHTA), UNITED KINGDOM - 133 Eastgate, Louth, Lincolnshire, LN11
9QG / TEL: 01507 602427, E-MAIL: tim.mudge@pvga.co.uk / WEB: <http://www.bhta.org.uk/>

Bulgarian Association of Herb and Mushroom Gatherers, BULGARIA - Dobroslavtzi, Contact:
Bioprogramme Ltd: <http://bioprogramme.net/web/>

Bulgarian National Association Essential Oils, Perfumery & Cosmetics (BNAEOPC), BULGARIA - 93
Maritza Blvd., Plovdiv 4003 / TEL/FAX: +359 32 96 78 35; +359 32 96 78 34 / E-MAIL:
office@bnaeopc.com / WEB: <http://www.bnaeopc.com/>

Deutscher Fachausschuss für Arznei-, Gewürz- und Aromapflanzen (DFAGA), GERMANY

Erzeugerring für Heil- & Gewürzpflanzen in Bayern e.V., GERMANY - Tal 35, 80331 München /
Contact: Herr Hans Möser, TEL: +49 089-29006316 / FAX: +49 089-29006320 / E-MAIL:
hans.moeser@lkb.bayern.de / WEB: <http://www.kraeuteranbau.de/>

European Confederation of Distributors, Producers and Importers of Medicinal Plants, FRANCE - 23 Rue du Peintre Lebrun, F-78000 Versailles

European Herb Growers Association (EHGA), THE NETHERLANDS - Clakenweg 132, 8081 LZ Elburg / FAX: +31 (0)525 680 851 / E-MAIL: ottens.bar@hetnet.nl / WEB: <http://www.europam.net/index.htm>

European Herbal Infusions Association (EHIA), GERMANY - Gotenstr. 21, 20097 Hamburg / TEL: ++49-40-23 60 16 14 / E-MAIL: info@ehia-online.org / WEB: www.ehia-online.org

European Spice Association (ESA), GERMANY - Reuterstrasse 151 53113 Bonn / TEL: +49 228 216 162 / FAX: +49 228 229 460 / E-MAIL: esa@verbaendebuer.o.de / WEB: <http://www.esa-spices.org/>

Federazione Italiana dei Produttori di Piante Officinali (FIPPO), ITALY - c/o Istituto Sperimentale per l'Assestamento Forestale e per l'Alpicoltura (ISAFa), Piazza Nicolini, 6, 38050 Villazano di Trento / TEL: 0461.381141 / FAX: 0461.381131 / E-MAIL: fippo@isafa.it / WEB: <http://www.pianteofficinali.org/main/fippo.htm>

Gesellschaft der Freunde und Förderer des Sanddorns, GERMANY - Sanddorn e.V., Hasenheide 56, D - 10967 Berlin / TEL: +49-33438-14724, FAX: +49-33438-14720, E-MAIL: ralf.godeck@berlin.de / WEB: <http://www.sanddorn.net/>

Herba M Macadonian Association of Collectors, Producers and Processors of Medicinal and Aromatic Plants, Forest Products and Mushrooms, MACEDONIA - Mr. Viktor Kolovski, Skopje, Macedonia, E-MAIL: vkolovski@konimex.com.mk

International Council for Medicinal and Aromatic Plants (ICMAP), E-MAIL: info@icmap.org / WEB: <http://www.icmap.org/>

International Federation of Essential oils and Aroma Trades (IFEAT), UNITED KINGDOM - Gafta House, 6 Chapel Place, Rivington Street, London EC2A 3SH / TEL: +44 20 7729 5904, FAX: +44 20 7814 8383, E-MAIL: secretariat@ifeat.org / WEB: <http://www.ifeat.org/>

International Hop Growers Convention (IHGC), SLOVENIA - P.O. Box 51, SI-3310 Zalec / TEL: +386.3712.1618, E-MAIL: mar.tin.pavlovic@guest.arnes.si / WEB: <http://www.hmelj-giz.si/ihgc/>

Italian branch organisation of herbal traders (FEI), ITALY - F.E.I. Federazione Erboristi Italiani 00153 Roma - P.zza G.G. Belli, 2 / TEL: 0655280704 - 065866409, E-mail: mailto:feiroma@tin.it / WEB: <http://www.feierboristi.org/associazione.htm>

Italian association of farmers, harvesters, transformers, importers, exporters, wholesalers and agents of medicinal and aromatic plants and spices (Assoerbe), ITALY - Unione del Commercio, del Turismo e dei Servizi della Provincia di Mila, Corso Venezia, 47/49 - 2021 Milano (MM1 - Palestro) / TEL: +39.02.7750575 / FAX: +39.02.76005543 / WEB: <http://www.assoerbe.it/eng/>

Latvian Herb Growers Association, LATVIA - Raina Str.6-49 Kraslava LV-5601 / E-MAIL ivars@kraslava.apollo.lv

MAP Association of "ZLATNICA", Bihać, BOSNIA AND HERZEGOVINA - Pokoj bb, 77101 Bihać / TEL/FAX: +387.37.300.887 / E-MAIL: alma012@bih.net.ba

Medicinal Plant Association and Product Council, HUNGARY - Akos Mathe, Secretary, H-1118 Budapest, Menesi ut 44 / TEL: 361-185-1155; FAX: 361-237-1388

Office National Interprofessionnel de Plantes a Parfum Aromatiques et Medicinales (ONIPPAM), FRANCE - BP 8 - 04130 VOLX / TEL: 04 9279 3446 / FAX: 04 9279 3322 / E-MAIL: onippam@onippam.fr / WEB: <http://www.onippam.fr/>

Polski Komitet Zielarski (Polish Herbal Committee), POLAND - BIURO ZARZĄDU GŁÓWNEGO PKZ 61-707 Poznań, ul. Libelta 27 / TEL. 61/665 95 40 Ext. #55, WEB: <http://www.pkz.pl>

Romanian Association of Medicinal & Aromatic Plants Growers & Manufacturers (RAMAPGM), ROMANIA - 176, Bd. G. Moroianu, Sacele, Brasov 2212 / TEL/FAX: +40 68 273 766 / E-MAIL: dlazurca@deltanet.ro

The Association and Product Board for Herbs (GYSZT), HUNGARY - WEB: <http://www.kerntnet.hu/HungarianHorticulture/gb/110fr.htm>

The Association For the International Promotion of Gums (AIPG), GERMANY - Secretariat at WGA Hamburg e.V. (HARZVEREIN), Gotenstraße 21 D-20097 Hamburg City Süd, TEL: +49 (0)40 23 60 16 13/15, FAX: +49 (0) 40 23 60 16 10, E-MAIL: aipg@wga-hh.de / WEB: <http://www.treegums.org/>

The Management Association and Product Board for Herbs, HUNGARY - Dr. Miklós GYARMATI (President), H-1118 Budapest, Ménesi út 44 / TEL / FAX: (+36-1) 372-6200/6477 / WEB: <http://www.kerntnet.hu/HungarianHorticulture/gb/111fr.htm>

Verein für Arznei- und Gewürzpflanzen, GERMANY - SALUPLANTA e.V., Prof.-Oberdorf-Siedlung 16 D-06406 Bernburg / FAX: +49 03471 640 332, E-MAIL: saluplanta@t-online.de / WEB: <http://www.saluplanta.de/>

WKF Wirtschaftsvereinigung Kräuter- und Früchtetee e.V., GERMANY - Gotenstrasse 21 D-20097 Hamburg City Süd / TEL: +49.40.23.60.1619 / E-MAIL: info@wkf.de / WEB: <http://www.wkf.de/>

SOUTH AMERICA

Asociación de Agroindustriales de Maca y Productos Andinos del Altiplano de Junín, Perú

Asociación Agroartesanal de Productores de plantas secas medicinales del Ecuador (AAPPSME), Contact: Ing. Orlando Cadme or Srta. Oliva Chunchu, Ramon Pinto entre Diez de Agosto y Jose Antonio Eguiguren / TEL/FAX: ++593 7 2 583 173 / E-MAIL: orlandocadme@latinmail.com

Asociación de Productores de Maca, Javier Pablo Castillo Güere, Presidente, Km. 243 Carretera Central, Shacayán, Junín, Perú, TEL: +51.64.9679002 / E-MAIL: macajpcg@yahoo.com

Asociación de Productores de Maca Ecológica de la Provincia de Junín (APROMACA-E-JUNIN), Luis Oswaldo Castillo Huerta, Presidente, Jr. San Martin N° 588, Junín, Perú, TEL: +51-64-344060 / E-MAIL: informes@apromacae.com / notariope@yahoo.com / WEB: <http://www.apromacae.com>

Asociación de Productores de Plantas Medicinales del Chimborazo Jambi Kiwa, Km 1 Via Santa Cruz, Parroquia y Aruquies, Riobamba-Ecuador, TEL: ++593.9.902645 / FAX: ++593.2.951026 / E-MAIL: jambikiwa@ch.pro.ec / WEB: <http://www.jambikiwa.org/>

Asociación de Productores de Plantas Medicinales Ecológicas de La Unión - PERÚ (APROPLAME), Contact: Régulo Chirinos, E-MAIL: apropame@aedes.com.pe / WEB: <http://www.cotahuasiarequipa.com/apropame>

Carabotija Association of Producers of Medicinal Plants, Ms. María Resfa Guatemala, No. 1 Barrio Carabotija, Olmedo, Cayambe-Ecuador, TEL: ++593.2.2115064/2362240 / E-MAIL: jenchala@yahoo.com

Nativa Trade Association for Natural Ingredients, COLUMBIA, Contact: ingredientesnaturales@gmail.com

Peruvian Institute of Natural Products (Instituto Peruano de Productos Naturales), TEL: (511) 435-9377 EXT: 281, E-Mail: informes@ippn.org.pe / WEB: <http://www.ippn.org.pe/ingles/main.htm>

UNITED STATES OF AMERICA

American Botanical Council (ABC), PO Box 144345, Austin, Texas 78714-4345 USA, TEL: 512.926.4900 / FAX: 512.926.2345 / E-MAIL: abc@herbalgram.org / WEB: <http://www.herbalgram.org/>

American Herbal Products Association (AHPA), 8484 Georgia Ave., Suite 370, Silver Spring, Maryland 20910 USA, TEL: 301.588.1171, FAX: 301.588.1174, E-MAIL: ahpa@ahpa.org
WEB: <http://www.ahpa.org/>

American Spice Trade Association (ASTA), 2025 M Street, NW, Suite 800, Washington, DC 20036 USA, TEL: 202-367-1127, E-MAIL: info@astaspice.org / WEB: <http://www.astaspice.org/>

'Awa (Kava) Development Council, PO Box 26344, Honolulu, HI 96825, TEL: 808.256.5605, FAX: 808.395.3772 / WEB: <http://awadevelopment.org/>

Carolina Agri-Solutions Growers Association (CASGA), Conway, South Carolina, USA, President Greg Hyman, TEL: 843-397-1502; E-MAIL: ghyman@sccoast.net

Great Plains Herb Growers Association (GPHGA), 908 W. 20th Terrace, PO Box 4422, Lawrence, Kansas 66046 USA, TEL: 785-841-9241, FAX: 785-841-4975, E-MAIL: herbgrowers@sunflower.com
WEB: <http://www.kansasruralcenter.org/greatplains.htm>

Herbalists Without Borders (HWB), 153 South Allen Street, State College, Pennsylvania 16801, E-MAIL: info@herbalistswithoutborders.org / WEB: <http://www.herbalistswithoutborders.org>

Hop Growers of America (HGA), PO Box 9218 Yakima, Washington 98909: <http://www.usahops.org>

Hop Growers of Washington (HGW), P.O. Box 1207, Moxee, WA 98936 USA, TEL: 609.453-4749 / FAX: 509.457.8581 / E-MAIL: ann@wahops.org

International Aloe Science Council (IASC), 415 East Airport Freeway Suite 365, Irving, Texas 75062 USA, TEL: (972) 258-8772, E-Mail: iasc@airmail.net / WEB: <http://www.iasc.org/iasc.html>

New Mexico Herb Growers Association (NMHGA), Albuquerque, New Mexico, USA, Contact: Charles Martin, 505.852.4241, E-MAIL cmartin@nmsu.edu

North Carolina Herb Association (NCHA), 455 Research Drive, Fletcher, North Carolina 28732 USA. TEL: 828-684-3562, E-MAIL: jeanine_davis@ncsu.edu / WEB: <http://www.ncherbs.net/ncha/>

Northwest Ginseng Growers Association (NGGA), 4820 NE 306th Circle, La Center, Washington 98629 USA / WEB: <http://www.nwginseng.org/home.html>

Roots of Appalachia Growers Association (RAGA), 33560 Beech Grove Road, Rutland, Ohio 45775, E-MAIL: elise@ruralaction.org / WEB: <http://www.rootsofappalachia.org/index.htm>

Sequim Lavender Growers Association (SLGA), 55 Parrish Road, Sequim, Washington 98382 USA, WEB: <http://www.lavendergrowers.org/>

West Virginia Herb Association (WVHA), 1289 Smoke Camp Road, Weston, West Virginia 26452 USA, TEL: 304.269.6416 WEB: <http://www.wvherb.org/>

MNS Reports

Monthly

Cut Flowers and Ornamental Plants

Market Trends in Europe, Events, Price Review, Regular features
65 varieties in 4 Asian markets (Cut Flowers)
94 varieties in 11 European markets (Cut Flowers)
45 varieties in 5 European markets (Ornamental Plants)

Fresh Tropical and Off-season Fruit and Vegetables

Some 85 tropical and off-season products in 11 European markets

Pharmaceutical Starting Materials/Essential Drugs

300 Most used substances in the production of essential drugs (generics) traded in major markets

Quarterly

Fruit Juices

Products alternating between selected European Markets and the United States market

Medicinal Plants & Extracts

A report covering various products in North America, Europe, India, China and Africa

Precious and Semi Precious Stone

Covers African supply situation to importing countries, primarily in the EU, the US, Japan, India and China.

Essential Oils & Oleoresins

Spices oils (including clove, cinnamon, ginger, cardamom); Spices seeds oils (coriander and others); herb oils (basil, thyme, sage); Citrus oils: perfumery oils (geranium, patchouli, vetiver and others)

Bi-Monthly

Spices

Quoting 30 Products in selected markets in Asia, Europe, the Middle East and the United States

Organics

Covers fruits and vegetables, fruit juice, coffee, tea, honey, essential oil & oleoresins, and spices.



Market News Service
International Trade Centre
54-56 Rue de Montbrillant
Geneva, Switzerland
Tel : (+41) 22 7300 111
Fax: (+41) 22 7300 578
E-mail: mns@intracen.org