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SUBMISSION INTO THE FUTURE DEVELOPMENT OF THE AUSTRALIAN HONEY BEE INDUSTRY

CREATING/EXPANDING POLLEN PRODUCTION WITHIN THE HONEY BEE INDUSTRY

Currently a small number of beekeepers collect and process pollen as part of the main activity of honey production. I believe this sideline activity has enormous potential for expansion, because of:

- demand from health food industry, manufacturing and replacement of imported pollen
- Australia's clean green resource i.e. our eucalyptus forests produce a very high quality flavoursome pollen which will command high prices on the export markets.
- Pollen collected from Australian agriculture crops e.g. clovers are much cleaner/greener than when collected from intensive farming areas in Europe, China and America

USES

- Bee collected pollen is a food extremely rich in countless vitamins, minerals, proteins, amino acids, hormones and enzymes. It is considered to have many benefits to the human body and is taken as a preventative and as a remedial measure for various ailments.
- Supplementary feed to bees during management to stimulate breeding prior to a honey flow or crop pollination job
- Supplementary feed for racehorses, aviary industry
- An input to manufacture of various products e.g. organic hair shampoo

FUTURE USES

I believe future research will find additional uses for bee collected pollen. For instance in pollinating 'difficult to set' crops, bee collected pollen from the target crop is first collected, dried and enhanced with other ingredients then at the appropriate time [could be next season with poor weather conditions which doesn't allow bees to fly to pollinate that year's crop] sprayed back on the target crop.

WHATS REQUIRED TO DEVELOP THE INDUSTRY

- Training and development of skills for the hive management when in pollen collection mode
- Training and development of skills for the collection, processing, storage and marketing of pollen
- Develop quality testing regimes [moisture, trash, e.coli]

Australian eucalyptus trees produce thousands of tonnes of high quality pollen each year, [far in excess of nature's requirements] and is just waiting to be collected. Why not take advantage of this untapped resource?

Neil Renshaw



Bee pollen

Nature's miracle medicine

Natural — non addictive — effective

Bee pollen has been used since the beginning of time by many races of people who considered it to be a source of youth and vitality.

The Talmud, the Bible, the Koran as well as scrolls of Greece, Rome and Russia all praise bee pollen as a source of perpetual youth and health for mankind.

In recent times, scientists and researchers have found that pollen is a food from completely natural organic sources and is extremely rich in countless vitamins, minerals, proteins, amino acids, hormones and enzymes.

Swedish doctors prescribe bee pollen

Many doctors throughout the world are now using pollen for various complaints. In fact, in Sweden over 4 000 doctors prescribe bee pollen both as a health giving food and as a medicine. Doctors have used pollen with much success to relieve many illnesses such as premature aging, restoring tired bodies, stress, insomnia, restoring health and strength after severe illness or shock, prostrate infections, loss of weight, anaemia, flatulence, chronic constipation, diarrhoea, respiratory ailments and healing sores and ulcers.

Scientists say they have seen pollen's effectiveness in destroying harmful intestinal bacteria. They state that it also creates a form of antibiotic cleansing in the internal organs.

U.S.S.R. scientists have praised various vitamins and enzymes found in bee pollen as having the ability to create a form of internal and external rejuvenation as well as life extension.

Extra energy for athletes

Many world famous athletes now take pollen for extra energy and stamina since discovering that many of Finland's athletes who were successful at the 1976 Olympics were given pollen as a food supplement. Coaches from many countries claim their athletes have noticed a significant improvement after taking bee pollen.

Bee pollen — allergies

As the bee gathers pollen from various flowering trees and plants, it mixes its nectar and saliva with the pollen to form a granule which the bee stores on its rear legs.

This nectar the bee produces has the amazing effect of neutralising and destroying any allergic properties in the pollen it collects.

Unlike harmful airborne pollen in its natural state direct from trees and flowers, bee pollen is harmless to most allergy sufferers.

Recommendations to consumers

It has been suggested that 30 grams of pollen consumed daily is sufficient to satisfy the needs of most adult persons. Pollen pellets can be eaten directly from the packet, sprinkled on breakfast foods, or taken with a little honey.

One or two teaspoons once or twice a day is sufficient.

Analysis of bee pollen content

Vitamins

Provitamin A
B1 Thiamine
B2 Riboflavin
B3 Niacin
B6 Group
Pantothenic acid
Biotin
B12
Folic acid
Choline
Inositol
Vitamin C
Vitamin D
Vitamin E
Vitamin K
Rutin

Enzymes, co-enzymes

Amylase
Diastase
Saccharase
Pectase
Phosphatase
Catalase
Diphosphorase
Coenzymase
Cytochrome systems
Lactic dehydrogenase
Succinic dehydrogenase
24 oxidoreductases
21 transferases
33 hydrolases
11 lyases
5 isomerases
Pepsin
Trypsin

Minerals

Calcium
Phosphorus
Potassium
Sulphur
Sodium
Chlorine
Magnesium
Iron
Manganese
Copper
Iodine
Zinc
Silicon
Molybdenum
Boron
Titanium

Proteins & amino acids

Isoleucine
Leucine
Lysine
Methionine
Phenylalanine
Threonine
Tryptophan
Valine
Histidine
Arginine
Cystine
Tyrosine
Alanine
Aspartic acid
Glutamic acid
Hydroxyproline
Proline
Serine

Others

Nucleic acids
Flavonoids
Phenolic acids
Terpenes
Nucleosides
Auxins
Fructose
Glucose
Brassins
Gibberellins
Kinins
Vermine
Guanine
Xanthine
Nuclein
Amines
Lecithin
Xanthophylls
Crocin
Zeaxanthin
Lycopene
Hexodecanal
Alpha-amino-butric-acid
Monoglycerides
Diglycerides
Triglycerides
Pentosans
Hypoxanthine

Caution

This product may cause severe allergic reactions.

There is a very small minority of people who could be allergic to bee pollen.

To test — place two only granules under tongue — if any reaction — do not take.

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