信阳紫云英研究

THE XINYANG MILK VETCH RESEARCH

杨俊岗　李长喜　主编

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Preface

Chinese milk vetch belongs to the bean family Astragals L. , its scientific name is Astragals sinuous L. , レンゲin Japanese, and Milk vetch or Chinese milk vetch in English, and АстраялкиТайский in Russian, and Schmetterlingsblüte in German. Its local name is red grass, red flower grass, or grass seed, and it is also called pheasant woods in some place.

Chinese milk vetch is the main green manure crop in paddy growing region, it is also a good quality forage grass, and nectar source plant and decorative plant, its seed and itself can be used for medicinal purposes. Its effect is that it can increase the organic fertilizer source, improve and rich the soil, purify the environment, keep the balance of nature, improve the utilization ratio of fertilizer and stimulate the development of animal husbandry and side occupation in agriculture region. Chinese milk vetch's effect is especially impressed in the reform of low output field, and altering the bad result of petrochemical agriculture and developing green agriculture.

The Chinese milk vetch of XINYANG is a kind of middle mature peasant product with a long period cultivating under the special nature climate of transition from north subtropics to warm temperate zone. It is verified that Chinese milk vetch has been planted in the Five Generation Ten Kingdom Period in XINYANG, and it has a planting history about 1 000 years to now. XINYANG is the highest latitude region that planting Chinese milk vetch in our country. Because XINYANG is located in on the edge of north subtropics, it is effected

by different kinds of district factor and non-district factor, it has the feature of transition from south to north in climate, and also has a districted difference of region, and most of its topography is hilly country, that separated it from the large planting region of Chinese milk vetch of south. The special nature condition and geography position make XINYANG Chinese milk vetch a particular peasant product. This region can provide more that four million kilogram of seed per year for south paddy planting region. The XINYANG Chinese milk vetch's seed began to export to Japan in the early 1980s', and began to export to Korcea in the 1990s'.

YANG JUN GANG, LI CHANG XI and some other people began the research of physiology, cultivation, using, seed preserve, pest defenses, and seed quality checking, process, classing and seed export technology of Chinese milk vetch of XINYANG, and now they make their research result to a booklet, provide the wide readers a reference, and hope the readers to condescend to teach the writers without hesitation.

Editors
2004/11

前　言

紫云英属于豆科黄芪属(*Astragalus* L.),学名为 *Astragalus sinicus* L.。日文为レンゲ,英文为 Milk vetch 或 Chinese milk vetch,俄文为 АстрагалкиТайский,德文为 Schmetterlingsblüte。俗名花草、红花草、草子,一些地方又称其为野鸡林。

紫云英是水稻产区的主要绿肥作物,也是一种优质的豆科牧草、蜜源植物和观赏植物,种子及全草又可药用。它的作用在于增加生物有机肥源,改良、培肥土壤,净化环境,保持生态平衡,提高化肥利用率和促进农区牧副业的发展。特别是在低产田改良,改变"石化农业"带来的不良后果和在绿色农业中的功用尤为突出。

信阳紫云英是在北亚热带向暖温带过渡这个独特的自然气候条件下,长期栽培的中熟农家品种。据考证,信阳在五代时期就有紫云英种植,至今已有 1 000 多年的历史。信阳是我国栽培紫云英最北纬度的区域。由于该区位于北亚热带边缘,受各种地带性与非地带性因素的影响,气候上既有南北过渡的特点,又有明显的区域差异,且地形大部分为浅山丘陵,与南方广大紫云英种植区截然隔离。特殊的自然条件和地理位置形成了信阳紫云英这个独有的农家品种。该产地每年可为南方稻区提供种子 400 多万公斤,

20 世纪 80 年代初开始出口日本,90 年代中出口韩国。

杨俊岗、李长喜等自 20 世纪 60 年代开始对信阳紫云英的生理、栽培、利用、留种、病虫防治、种子质量检验、加工、分级及种子出口等技术进行了大量的研究,现将研究成果汇编成册,供广大读者参考使用,并请不吝赐教。

编者

2004 年 11 月

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