

Luxor[®] Albus Lupins

The new albus lupin variety, Luxor, has been released for commercial production in eastern Australia. The variety and its companion line, Rosetta, are the first to be bred by NSW Department of Primary Industries Wagga Wagga and selected specifically for the main lupin growing areas in NSW, Victoria and SA. Luxor features higher yield than Kiev Mutant and Ultra, resistance to root rot and lodging, maturity better suited to the main lupin growing areas in NSW, Victoria and SA and taller plant type.

Luxor is recommended for low to medium rainfall areas, quicker maturing, and warmer environments of NSW, Victoria and SA or where risk of Pleiochaeta Root Rot is high. Luxor is seven days later flowering than Ultra, but earlier flowering than its companion line Rosetta. Luxor is suited to the medium to low rainfall zones of NSW.

Key Features

- ✓ Improved yield av. 13% over Kiev Mutant / Ultra
- ✓ Improved resistance to Pleiochaeta Root Rot
- ✓ Later flowering than Kiev / Ultra
- ✓ 100% free of bitter seed contamination
- ✓ Taller, easier harvesting
- ✓ Ideally suited to export markets
- ✓ Replacement for all existing albus varieties



Rosetta[®] Albus Lupins

Rosetta is recommended for medium to high rainfall areas, longer season, cooler environmental areas of NSW, Victoria and SA or where risk of Pleiochaeta Root Rot is low. The long term average yield is 14% above Kiev Mutant in GRDC National Variety Trials (8% in SA and Vic trials).

Rosetta flowers 11 days later than Ultra when sown in mid May. Rosetta has improved resistance to Pleiochaeta Root Rot over Kiev Mutant and Ultra and is resistant to brown leaf spot.

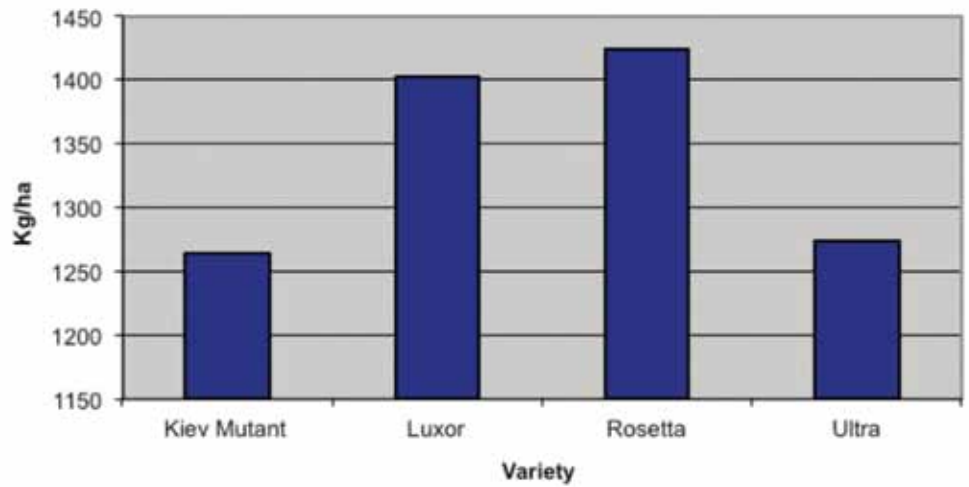
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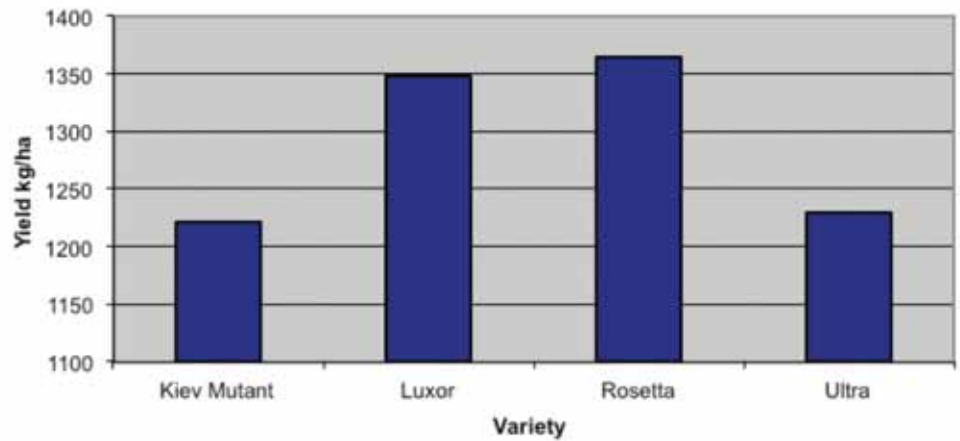


Variety Specific Agronomic Information

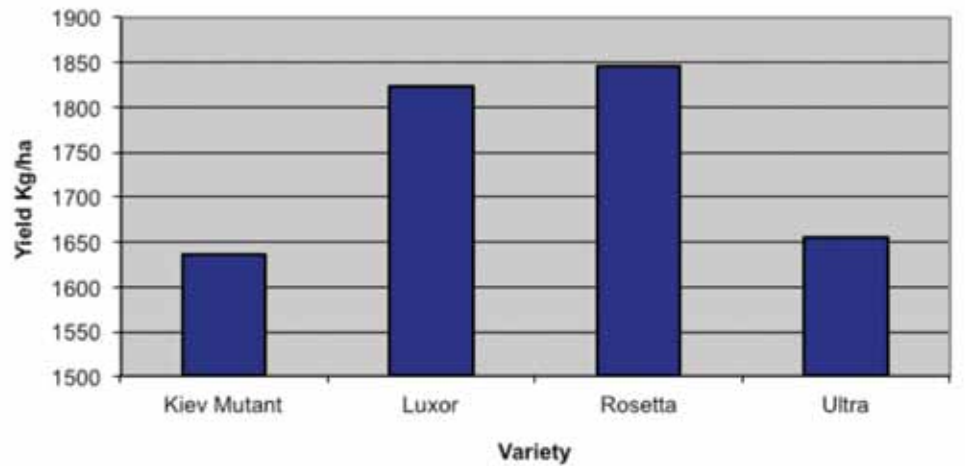
Long term predicted yield report albus lupins NE NSW



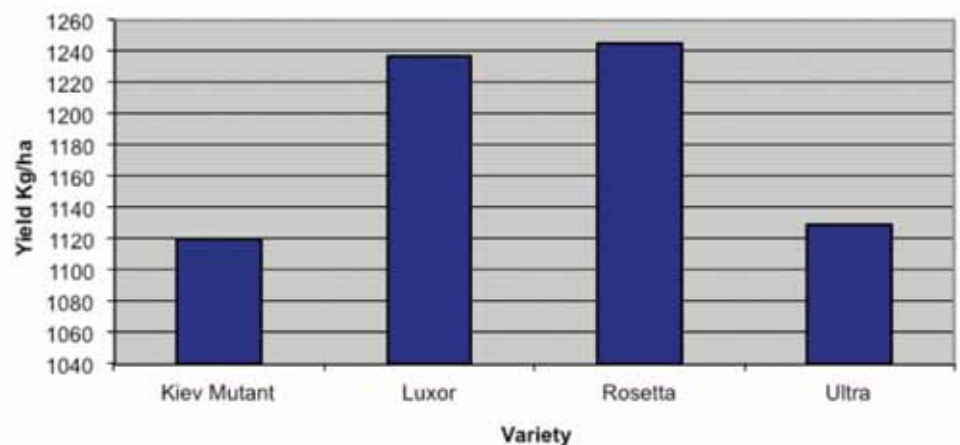
Long term yield report albus lupin NW NSW



Long term yield report albus lupins SE NSW



Long term yield report albus lupin SW NSW



Disease Profile

Variety	Brown Leaf Spot	Pleiochaeta Root Rot	Phomopsis 1 stem infection	CMV seed transmission	Anthracoze Resistance
Kiev Mutant	R	VS	R	IMMUNE	VS
Luxor	R	R	R	IMMUNE	VS
Rosetta	R	MR	R	IMMUNE	VS
Ultra	R	S	R	IMMUNE	VS

VS=Very Susceptible, S=Susceptible, MS=Moderately Susceptible, MR=Moderately Resistant, R=Resistant. Source – NSW DPI

Plant Profile

Variety	Plant Height	Flowering time	Lodging Resistance	Seed Colour	Seed Size (g/100 seeds)	Pod Loss / Shatter resistance
Rosetta	Tall	Medium - Late	R	White	35	Good
Luxor	Medium - Tall	Early	R	White	35	Good
Kiev Mutant	Medium	Very Early	R	White	35	Good
Ultra	Short	Very Early	R	White	35	Good

Disease and Plant Profile Summary

Luxor[®] and Rosetta[®] both have excellent resistance to the principal root disease of albus lupins, Pleiochaeta Root Rot (PRR). Luxor is resistant to PRR and should be grown in areas where the disease risk is high or where lupins are to be grown for more than one year in five.

Rosetta is rated moderately resistant to PRR which should be adequate in most medium - high rainfall areas. Both varieties are resistant to brown leaf spot. Resistance of Rosetta and Luxor to Phomopsis and Bean Yellow Mosaic Virus is similar to other lupin varieties.

Albus lupins are immune to seed transmission of Cucumber Mosaic Virus. Luxor and Rosetta are not resistant to Anthracnose. The disease occurs in WA but is not present in lupin crops in NSW and Victoria. Quarantine and import regulations are in place to prevent spread of the disease and should be strictly observed.

Bitterness

These varieties are 100% free of bitter seed contamination and are an ideal replacement for all existing albus lupin varieties. Luxor and Rosetta are 100% sweet seeded. Bitter seed is a genetic trait that is spread by cross-pollination from contaminated crops and volunteer plants of old varieties. Growers will need to manage crops to maintain freedom from bitter seed contamination:

- Do not grow Luxor or Rosetta on the same farm with any other existing variety
- Maintain a minimum 1 km (preferably 2 km) isolation from crops of Kiev Mutant, Ultra and other, older varieties, to avoid pollen transfer by bees. Even greater isolation is better for reducing the chance of pollen transfer
- Control all albus volunteers
- Clean all equipment at sowing and harvest especially contract harvesters
- Have your sowing seed tested annually (precision testing available free through NSW DPI Wagga Wagga)

Plant Breeding Rights and Royalties

Both varieties were released by David Luckett and the Industry & Investment NSW albus lupin breeding program based in Wagga Wagga NSW for eastern Australia. The breeding was supported by grower funding through the GRDC.

Both Luxor and Rosetta are licensed to Viterra and are protected by plant breeding rights and will attract an EPR of \$2.80/tonne and is available from local seed suppliers. Any unauthorised commercial propagation or any sale conditioning, export, import, or stocking of propagating material of these varieties is an infringement under the Plant Breeder's Rights Act 1994.

Contact and Seed Purchasing

Luxor and Rosetta lupins are sold through your local seed retailer. Check with your local store for seed availability and advice on optimum sowing time and crop management. Wholesale distribution by Viterra.

CONTACT - Viterra on 1800 018 205 or visit the seed section of the Viterra website at www.viterra.com.au

Northern NSW and QLD Sales Manager Chris Farlow - 0439 277 122

Southern NSW and Victoria Sales Manager Jason Scott - 0458 009 804

SA Sales Manager - 0437 011 907

Luxor growing region



To be used as a guide only

Rosetta growing region



To be used as a guide only

