11-1952

Pedigree seed of wheat, oats and barley

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Recommended Citation
(1952) "Pedigree seed of wheat, oats and barley," Journal of the Department of Agriculture, Western Australia, Series 3: Vol. 1 : No. 6 , Article 12.
Available at: https://researchlibrary.agric.wa.gov.au/journal_agriculture3/vol1/iss6/12

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SUPPLIES of pedigree seed wheat, oats and barley will be available for distribution from the forthcoming harvest at the Department's Research Stations. The seed will be available on a cash basis only. Varieties available this season are listed below.

**WHEAT**

Midseason.
- Baroota Wonder (Hay Variety).
- Bencubbin.
- *Bencubbin 48 (Rust resistant).
- Eureka (Rust resistant).
- Kondut.
- Yalta (Rust resistant).

Early.
- Dowerin (Rust resistant).
- Gabo (Rust resistant).
- Koorda.
- Wongoondy (Rust resistant).

Very Early.
- Bungulla.

**OATS**

Late.
- Algerian.

Midseason.
- Dale.
- Guyra.
- Fulghum.

Early.
- Ballidu.

Very Early.
- Wongan.

**BARLEY**

- Atlas 6-row.
- Prior 2-row.
- Maltworthy 2-row.

* A limited quantity only will be available.

Cash prices per bag of three bushels, inclusive of rail freight to farmer's siding will be:—Wheat, 55s.; Barley, 55s.; Oats, 45s.

The aim of the policy adopted with the distribution of pedigree cereal seed is to provide as many farmers as possible with a few bags of the varieties grown by them and which are available from the Research Stations. The maintaining of "stud plots" by farmers is of major importance in the maintenance of the purity of their seed plots and the small quantities of seed obtained by them are sufficient to establish such plots. Each bag of wheat will sow at least four acres and each bag of oats or barley three acres.

In order to avoid disappointment in obtaining their requirements, farmers would assist considerably by noting the following directions:—

1. All applications should be made direct to the Department of Agriculture, Perth.
2. Applications should include full name and postal address and also the siding to which it is desired the seed to be railed.
3. Early application.
4. As soon as possible after receipt of account, cash remittance should be forwarded. Statements of account are sent out in order of receipt of the applications. No definite reservations can be made until after receipt of the necessary cash remittance.
The following are short descriptions of the recommended varieties which are at present being produced as pedigree seed—

**WHEAT VARIETIES**

### Midseason Maturing

**Hay Variety — Baroota Wonder** — This variety is grown almost exclusively for hay. It is relatively tall growing and remains green to the base until haycutting time. It is very susceptible to loose smut and rust, but moderately resistant to flag smut.

**Kondut** — Bred at the Wongan Hills Research Station, Kondut has yielded well over a wide range of soil and climatic conditions. Although not rust resistant, it gives better yields under epidemic conditions than Bencubbin. It is resistant to flag smut. The straw is stout and the variety can be recommended for early planting, particularly on light and clover-ley land. Kondut yields flour which is usually superior in strength to that of the f.a.q.

**Eureka** — This variety was bred in New South Wales and is a stout strawed, rather tall growing, brown chaffed variety with translucent grain. The flour strength is good: it is resistant to flag smut and to the rust races prevalent in this State. The desirable planting date for Eureka in each district would be about the same as for Bencubbin.

**Bencubbin** — The standard midseason wheat. The straw strength tends to be weak on light land but is satisfactory for hay. Bencubbin is notable for its high yields under inferior seasonal conditions and although very susceptible to rust, is resistant to flag smut. The flour strength is equal to the State f.a.q.

**Bencubbin 48** — A strain of Bencubbin produced at the Waite Institute in South Australia. It was evolved by crossing Gabo with Bencubbin, then backcrossing to Bencubbin until a variety was produced similar to the parent variety Bencubbin, except that it possesses rust resistance and semi-translucent grain. In other characters, including yield, maturity, straw strength and grain quality, it is identical with Bencubbin.

**Yalta** — A midseason maturing variety bred by the New South Wales Department of Agriculture, resistant to all races of stem rust known in Western Australia. It stands well and has good quality grain. Highly resistant to flag smut.

### Very Early Maturing

**Bungulla** — The standard early maturing variety and a selection from Bencubbin. Like Bencubbin, it is notable for its high yields particularly under low rainfall conditions. Because of its early maturity, it usually suffers relatively little rust damage. The straw strength is satisfactory on the heavier soil types. Bungulla is satisfactory for hay, whilst the flour strength is equal to the f.a.q. of the State. It is resistant to flag smut but not to rust.

**Gabo** — A wheat bred at Sydney University, it is resistant to stem and leaf rust in Western Australia but susceptible to flag smut. Possessing short strong straw with small grain of good milling quality, it has the ability to yield well.

**Koorda** — Bred at the Merredin Research Station, it has yielded well on the lighter soils where its strong straw is of great value. Koorda is practically immune to flag smut and tends to be rust escaping in all but the heaviest epidemics. The flour strength is about the same as that of the f.a.q. standard.

**Wongoondy** — Bred at the Merredin Research Station from a cross between Eureka and Bungulla, it possesses straw of good strength and is resistant to the types of rust at present prevalent in Western Australia. Its yield is satisfactory and flour strength approaches that of premium varieties. The variety is also highly resistant to flag smut.

### OAT VARIETIES

### Late Maturing

**Algerian** — The standard late general purpose oat which is cultivated chiefly in the Great Southern areas of the wheatbelt and the higher rainfall districts of the State. It is also used extensively for oatmeal manufacture.

### Midseason Maturing

**Guyra** — The standard midseason variety which is notable chiefly for its plump grain. Guyra is an indifferent variety for grazing and recovery since the early growth is relatively sparse and the grain yields, subsequent to grazing, only fair.

**Fulghum** — The standard grazing and recovery oat, it can be grazed later in the season than other midseason varieties, but is not a good general purpose oat as the straw strength is very poor. The grain is suitable for oatmeal manufacture.
Dale—This has given satisfactory results as a general purpose variety under a wide range of conditions. It is markedly superior to other midseason varieties in respect to straw strength and is very suitable for early grazing.

Early Maturing.

Ballidu—The standard early oat. The straw strength and grain yields are outstanding, whilst its vigorous leafy early growth and satisfactory recovery make it suitable for grazing and recovery. It is now the most widely grown oat variety in Western Australia.

Very Early Maturing.

Wongan—The standard very early maturing oat which is notable for its vigorous early growth and strong straw. It is satisfactory as a hay variety, it stands well, but tends to shed if left unharvested too long after it has matured. The vigorous early growth makes Wongan a suitable variety for early winter feed, but it cannot be grazed as late in the season as Ballidu and the midseason varieties if recovery for grain is desired.

BARLEY VARIETIES

Atlas—A six-row malting type, also known as Californian 6-row. It is grown as a malting barley for the export trade, and is also eminently suitable for early green feed and feed grain purposes, being superior in yielding capacity to Cape. The results of trials with this barley indicates that it is generally superior to oats as a source of early green feed.

Prior—A two-row barley which is the most important malting variety grown in the Commonwealth. Although early maturing, for satisfactory malting grain it should not be grown in the drier areas of the wheatbelt.

Maltworthy—Bred at the Roseworthy Agricultural College, South Australia, it is a 2-row early to midseason maturing variety, strong strawed and superior to Prior in its resistance to strong winds when no occurrence of “necking” is evident. Maltworthy possesses excellent yielding ability. It matures a few days later than Prior and for satisfactory malting grain it should not be sown in areas with an annual rainfall below 17 inches.

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