

Lentil Seed for 2025

Retaining, Quality & Sourcing



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Retaining seed

Factors that impact seed for quality crops

- **Purity**
- **Germination**
 - Frost impacts, dessicants, late rain, wrinkling, orange tip, green kernel
 - Damaged seeds
 - Handling equipment
 - Dormancy
- **Lentil Variety**
 - Seed size and seasonal variability
- **Plant establishment**
 - Seed vigour
 - will every viable seed emerge?
- **Diseased (ascochyta blight) seed**
- **Virus infected seed**

Retaining seed

Cleaning for purity & germ

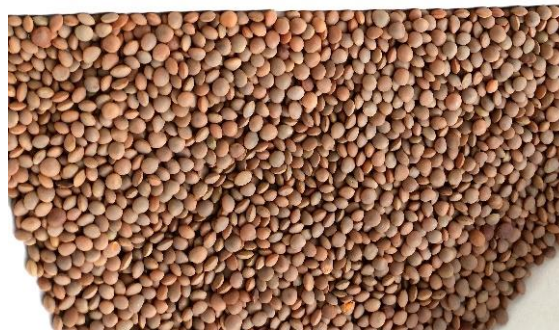
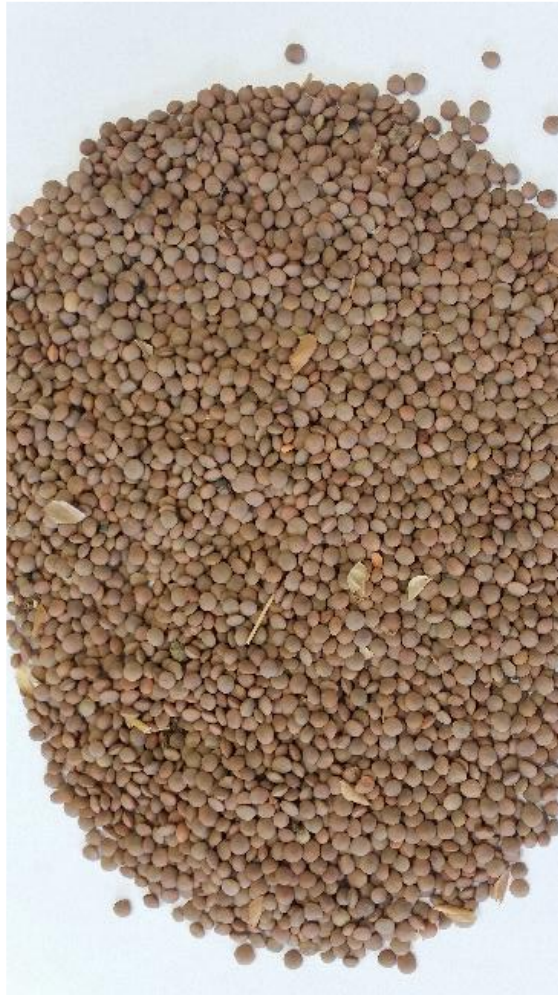


LENTIL HARVEST SAMPLE:

- **Main line quality: Sound plump seeds**
 - What will remain after cleaning ?
 - Damaged grains? Late frosted grains? Wrinkled/brittle? Weather stained?
 - Check kernel colour? Can be issue if late frosted grain or late rain & issues dessicating crop
- **What grain will be screenings?**
 - Very small grain, flat frosted/not matured grain, splits, broken
 - Weed seeds to be removed?
 - Best screen sizes for job?
 - 2mm slots &/or 3.75mm round hole? Scalp screen?
 - Seed cleaning equipment options?
 - Rotary cleaner
 - Flat screen cleaners - with aspiration?
 - Flat screen & gravity table cleaners & aspiration / & colour sorter?

Retaining seed

Cleaning for purity & germ



Germination



▪ Germination factors

- Frost impacts, dessication issue with late rain, wrinkling, orange tip, green kernel, avoid use of Sharpen® for seed retention
- Damaged seeds
- Handling equipment
- Dormancy

→ germination test clean seed

→ wait minimum 1 month post harvest

→ plant establishment: consider

vigour test

Lentil variety: seed size x season

LENTIL GRAIN WEIGHT

GIA THUNDER LENTIL

Grain weight range (g/100 seeds, NVT trials)

	SA	VIC
2020	3.0 - 4.3	3.1 - 4.3
2021	3.3 - 3.9	3.8
2022	3.4 - 3.9	3.3 - 3.8
2023	3.4 - 3.9	3.6 - 4.2

LENTIL GERMINATION

Lentil seed samples clean %

	80-89% germ	90-100% germ
2016/17	19%	81%
2017/18	16%	84%
2018/19	0%	100%
2019/20	21%	79%
2020/21	0%	100%
2021/22	4%	96%
2022/23	25%	75%
2023/24	2%	98%



Lentil variety: sowing rate

95% germination

GIA THUNDER

germination%

95

p/m2

120

p/m2

100

	KG/HA	KG/HA
seed weight (g/100 seeds)	SOWING RATE (120 plants)	SOWING RATE (100 plants)
3.0	38	32
3.1	39	33
3.2	40	34
3.3	42	35
3.4	43	36
3.5	44	37
3.6	45	38
3.7	47	39
3.8	48	40
3.9	49	41
4.0	51	42
4.1	52	43
4.2	53	44
4.3	54	45

KG/HA range

38 to 54

32 to 45

GIA THUNDER

0.9

90% establishment

germination%

95

p/m2

120

p/m2

100

	KG/HA	KG/HA
seed weight (g/100 seeds)	SOWING RATE (120 plants)	SOWING RATE (100 plants)
3.0	42	35
3.1	44	36
3.2	45	37
3.3	46	39
3.4	48	40
3.5	49	41
3.6	51	42
3.7	52	43
3.8	53	44
3.9	55	46
4.0	56	47
4.1	58	48
4.2	59	49
4.3	60	50

KG/HA range

42 to 60

35 to 50

Lentil variety: sowing rate

85% germination

GIA THUNDER

germination%

85

p/m2

120

p/m2

100

	KG/HA	KG/HA
seed weight (g/100 seeds)	SOWING RATE (120 plants)	SOWING RATE (100 plants)
3.0	42	35
3.1	44	36
3.2	45	38
3.3	47	39
3.4	48	40
3.5	49	41
3.6	51	42
3.7	52	44
3.8	54	45
3.9	55	46
4.0	56	47
4.1	58	48
4.2	59	49
4.3	61	51

KG/HA range

42 to 61

35 to 51

GIA THUNDER

0.9

90% establishment

germination%

85

p/m2

120

p/m2

100

	KG/HA	KG/HA
seed weight (g/100 seeds)	SOWING RATE (120 plants)	SOWING RATE (100 plants)
3.0	47	39
3.1	49	41
3.2	50	42
3.3	52	43
3.4	53	44
3.5	55	46
3.6	56	47
3.7	58	48
3.8	60	50
3.9	61	51
4.0	63	52
4.1	64	54
4.2	66	55
4.3	67	56

KG/HA range

47 to 67

39 to 56

Sourcing lentil seed: PBS Seed Member

PBSEEDS*, VIC

PBS SA SEED MEMBERS: AG Schilling & Co*, Modra Seeds, RH Verner & Co

- Order via seed member (bulk or bagged) or local reseller

LENTIL VARIETIES AVAILABLE FOR 2025

- GIA Thunder IMI
- GIA Lightning IMI
- GIA Metro MET+IMI
- GIA Leader IMI
- PBA Highland-XT
- PBA Hallmark XT

QUALITY ASSURED SEED PROGRAM

- Varietal traceability
- Paddock selection & season inspections
- Harvest purity QA protocols
- Specialised seed cleaning equipment (multi-deck flat screen cleaners with aspiration, gravity table cleaners, colour sorter*, soft handling) and seed cleaning testing QA protocols, Accredited seed samplers, ISTA representative sampling per seed lot
- Disease tested & IMI tested by independent laboratory
- Follow the Seed Services Australia Seed certification standards for varietal purity, purity, germination, nominated other seeds and prohibited other seeds
- Purity & Germination certificate per seed lot by independent accredited laboratory

Sourcing lentil seed: Grower 2 Grower

IF GROWER HASN'T GROWN A SPECIFIC LENTIL VARIETY:

- Grower may register with PBSEEDS to source seed of this variety from another grower
- If this variety is on the approved list (otherwise source from seed member)
- Know paddock / seed quality

PROCESS:

- Contact PBSEEDS to register: admin@pbseeds.com.au
- Complete **PBSEEDS Seed Register Form**
(business details & kg seed of variety)
- Sign **Variety Licence Agreement**
& pay (once-off) licence fee invoice (\$250 + GST)

APPROVED VARIETIES FOR 2024 & 2025:

- GIA Thunder, GIA Lightning, GIA Metro, GIA Leader
- PBA Highland, PBA Hallmark, PBA Hurricane,
- PBA Jumbo2 and all other PBA lentil varieties (except PBA Kelpie)

Thank You

