# AGT-Hamelin

- Mid-slow maturity, suited to both early and main season sowings
- Alternative to RockStar(Ф), Denison(Ф) and Catapult(Ф)
- Very good physical grain quality package, with an AH quality classification, very high test weight, low screenings and good sprouting tolerance
- High yields across a range of germination dates
- Good disease resistance package, with improved rust, yellow spot and powdery mildew resistance
- Moderately short plant type, contributing to good standability

## Breeder's comments

AGT-Hamelin$^{\Phi}$ has been released to offer increased benefits to those growers that have been using varieties like RockStar$^{\Phi}$, Denison$^{\Phi}$ and Catapult$^{\Phi}$ for early sowing opportunities across WA.

With increasing farm sizes, sowing programs have to start earlier to get the whole program in the ground, regardless of available moisture. A variety that performs when it is sown into moisture early and gets away, or sown dry and germinates later is highly desired. RockStar$^{\Phi}$, Denison$^{\Phi}$ and Catapult$^{\Phi}$ have been used in these circumstances. AGT-Hamelin$^{\Phi}$ is a variety in a similar vein, but offers improvements over all other choices for this situation.

Versus RockStar$^{\Phi}$, AGT-Hamelin$^{\Phi}$ offers improved yield in early sown NVT trials, similar yield in early sown AGT trials, better pre-harvest sprouting tolerance and much better test weight.

Relative to Denison$^{\Phi}$, AGT-Hamelin$^{\Phi}$ is a little quicker to flower, offers higher yields when sown later or when germination is delayed, a higher quality classification (AH versus APW), improved test weight and grain size, and an over-all better disease resistance package.

Compared to Catapult$^{\Phi}$, AGT-Hamelin$^{\Phi}$ has consistently produced higher yields across all sowing dates, and possesses better powdery mildew and leaf rust resistance.

We believe that AGT-Hamelin$^{\Phi}$ offers a fantastic package of features that positions itself as the best variety for WA growers to plant at the front end of their seeding programs.

# AGT-Hamelin

*Table 1. Specifications*

## Background

| | |
|---|---|
| Tested as | WAGT1159 |
| Released | 2025 |
| EPR rate | $3.90/tonne + GST |

## Disease

| | |
|---|---|
| Stem Rust resistance* | MRMS (P) |
| Stripe Rust resistance* | MR |
| Leaf Rust resistance* | MR (P) |
| Yellow Spot resistance* | MRMS (P) |
| Powdery Mildew resistance* | MSS (P) |
| Septoria Nodorum Blotch (Glume) resistance* | NA |
| Septoria Nodorum Blotch (Leaf) resistance* | NA |

## Plant Characteristics

| | |
|---|---|
| Maturity speed^ | Mid-slow |
| Maturity habit^ | Spring |
| Sowing window^ | Early & Main |
| Novel herbicide tolerance^ | None (conventional tolerance) |
| Head type^ | Awned |
| Plant height^ | Moderately short |
| Coleoptile length^ | Short |
| Lodging tolerance^ | MTMI |

## Abiotic Stress

| | |
|---|---|
| Boron tolerance^ | Does not carry tolerance gene |
| Acid/aluminium tolerance^ | Carries tolerance gene |

## Grain Quality

| | |
|---|---|
| Quality classification | AH |
| Grain colour | White |
| Screenings level^ | Low |
| Test weight^ | Very high |
| Sprouting tolerance^° | MI |
| Black Point resistance* | NA |

## Legend

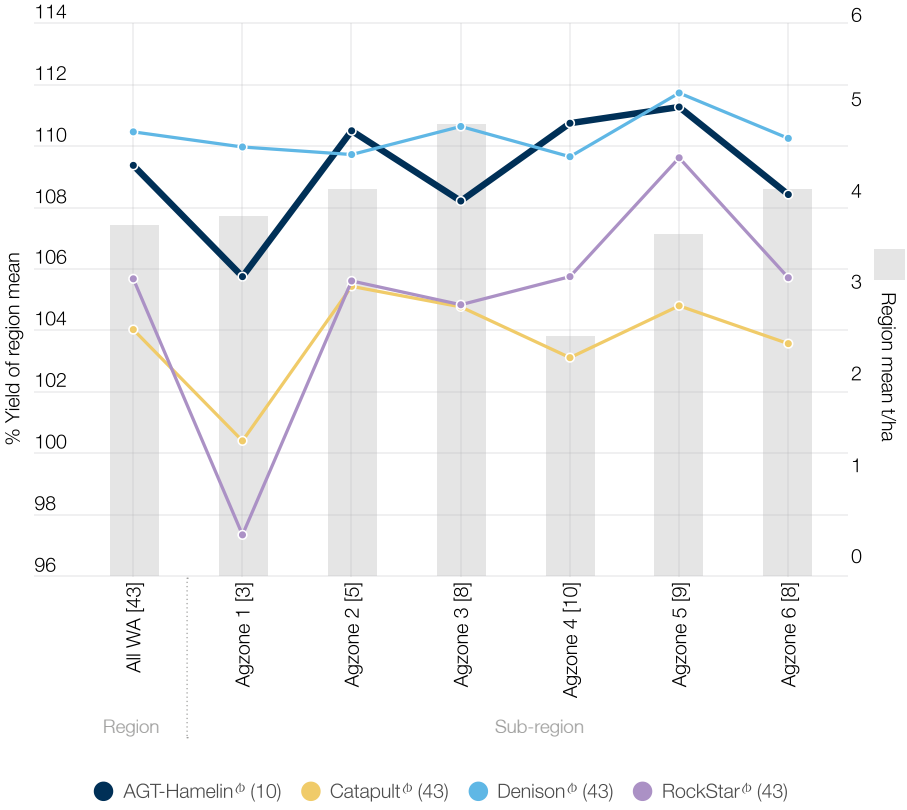
| | |
|---|---|
| R | Resistant |
| MR | Moderately Resistant |
| MS | Moderately Susceptible |
| S | Susceptible |
| VS | Very Susceptible |
| T | Tolerant |
| MT | Moderately Tolerant |
| MI | Moderately Intolerant |
| I | Intolerant |
| VI | Very Intolerant |
| (P) | Provisional rating |
| NA | Not Available |
| / | Pathotype differences |
| - | Range |
| , | Mixed phenotype |
| # | May be more susceptible to alternate pathotypes |
| * | NVT consensus ratings 2025 |
| ° | Rating based on Germination Index Values |
| ^ | AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings |

## Grain yield

AGT-Hamelin$^{\Phi}$ has produced high yields across a wide range of sowing windows. When sown in the 'early' sowing window (typically late April/early May), AGT-Hamelin$^{\Phi}$ has produced yields similar to Denison$^{\Phi}$ (NVT data, Figure 1), and RockStar$^{\Phi}$ (AGT data, Figure 3), with yields higher than RockStar$^{\Phi}$ in NVT early sown trials (Figure 1).

When emerging in the main season sowing window, AGT-Hamelin$^{\Phi}$ has yielded very similarly to RockStar$^{\Phi}$, with a much improved yield over Denison$^{\Phi}$ and Catapult$^{\Phi}$ (Figure 2).

*Figure 1. Predicted grain yield of AGT-Hamelin$^{\Phi}$ versus comparators across WA regions - NVT early sown data*

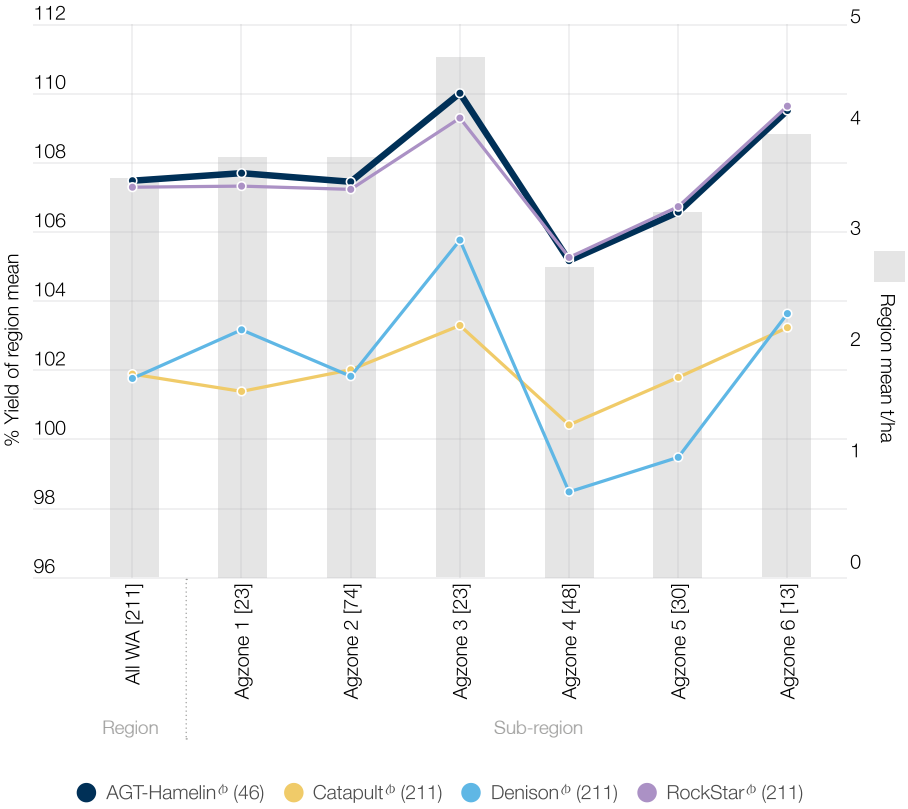



Source: NVT long term MET analysis, early sown trial series 2020-2024

[ ] : Total number of trials per region

( ) : Number of trials that each variety was present in across the dataset

*Figure 2. Predicted grain yield of AGT-Hamelin$^{\Phi}$ versus comparators across WA regions - NVT main season data*

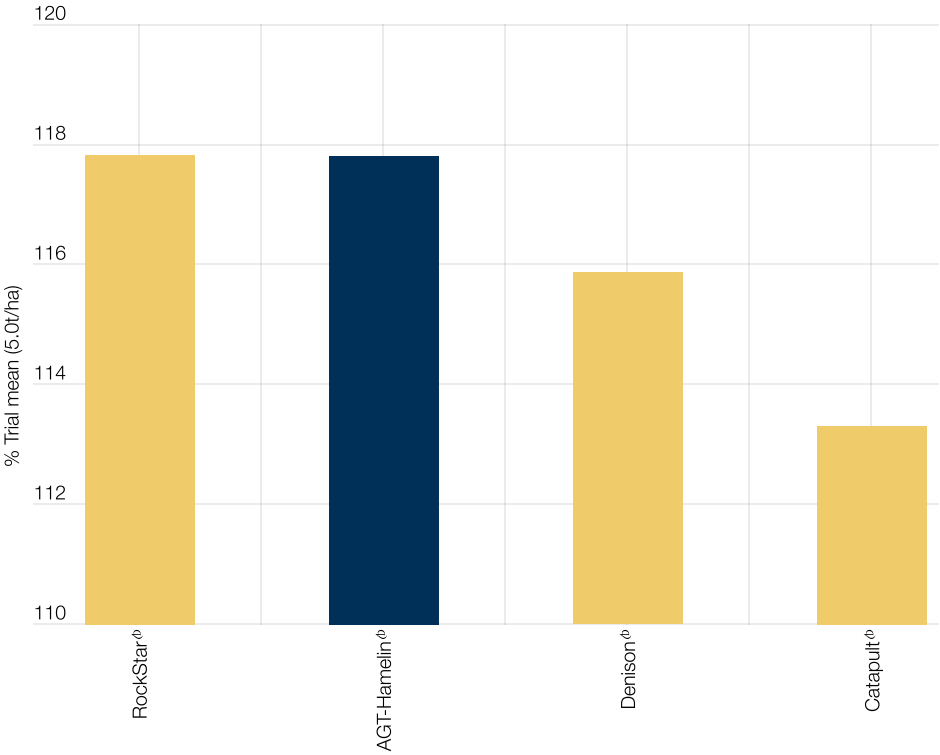



Source: NVT long term MET analysis, main season trial series 2020-2024

[ ] : Total number of trials per region

( ) : Number of trials that each variety was present in across the dataset

*Figure 3. Predicted grain yield of AGT-Hamelin$^{\Phi}$ versus comparators - AGT early sown data*




Source: AGT long term MET analysis, early sown trials 2022-2024 (12 trials across WA)

## Variety comparisons

AGT-Hamelin$^{\Phi}$ offers agronomic improvements over main competitor RockStar$^{\Phi}$, holding higher levels of resistance to leaf rust, better sprouting tolerance and much improved test weight.

Versus Denison$^{\Phi}$, AGT-Hamelin$^{\Phi}$ offers a higher quality classification (AH), an over-all better physical grain quality package, improved lodging tolerance and superior powdery mildew, leaf rust and stem rust resistance.

AGT-Hamelin$^{\Phi}$ reaches flowering a little later than RockStar$^{\Phi}$ and a little earlier than Denison$^{\Phi}$.

*Table 2. Variety comparisons*

| | | AGT-Hamelin$^{\Phi}$ | Catapult$^{\Phi}$ | Denison$^{\Phi}$ | RockStar$^{\Phi}$ |
|---|---|---|---|---|---|
| Disease | Stem Rust resistance* | MRMS (P) | MR | MS | MRMS |
| | Stripe Rust resistance* | MR | RMR | MR | RMR |
| | Leaf Rust resistance* | MR (P) | S | S | S |
| | Yellow Spot resistance* | MRMS (P) | MRMS | MRMS | MRMS |
| | Powdery Mildew resistance* | MSS (P) | S | S | MSS |
| | Septoria Nodorum Blotch (Glume) resistance* | NA | NA | MRMS | NA |
| | Septoria Nodorum Blotch (Leaf) resistance* | NA | NA | MR | NA |
| Plant Characteristics | Maturity speed^ | Mid-slow | Mid-slow | Slow | Mid-slow |
| | Maturity habit^ | Spring | Spring | Spring | Spring |
| | Sowing window^ | Early & Main | Early & Main | Early & Main | Early & Main |
| | Novel herbicide tolerance^ | None (conventional tolerance) | None (conventional tolerance) | None (conventional tolerance) | None (conventional tolerance) |
| | Head type^ | Awned | Awned | Awned | Awned |
| | Plant height^ | Moderately short | Moderate | Moderately short | Moderately short |
| | Coleoptile length^ | Short | Short | Moderate | Short |
| | Lodging tolerance^ | MTMI | MI | MI | MTMI |
| Abiotic Stress | Boron tolerance^ | Does not carry tolerance gene | Carries tolerance gene | Carries tolerance gene | Does not carry tolerance gene |
| | Acid/aluminium tolerance^ | Carries tolerance gene | Carries tolerance gene | Carries tolerance gene | Carries tolerance gene |
| Grain Quality | Quality classification | AH | AH | APW | AH (N) |
| | Grain colour | White | White | White | White |
| | Screenings level^ | Low | Low | Moderate | Low |
| | Test weight^ | Very high | High | Moderate | Moderate |
| | Sprouting tolerance^° | MI | MII | MII | I |
| | Black Point resistance* | NA | S | MS | MSS |

Published August 2025 Publication #25-059

*Seed Availability*

Please contact an AGT Affiliate or your local retailer for seed. Consult the AGT website for AGT Affiliate contact details (www.agtbreeding.com.au/affiliates). AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing ™ initiative (www.agtbreeding.com.au/seedsharing)

*PBR and EPR*

Varieties denoted by the Φ symbol are protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Growers of PBR protected varieties will be subject to a Grower License Agreement that acknowledges that an EPR must be paid on all production other than seed saved for planting.

*Contact*

Floyd Sullivan, Variety Support Manager, Western Australia: 0499 580 260

AGT End Point Royalty team: (08) 7111 0201

agtbreeding.com.au