2019

LongReach HAVOC a new wheat from Pacific Seeds

Western Australia

Now Free to Trade

Please complete the grower sales declaration form - available from our Pacific Seeds Website

VARIETY ATTRIBUTES

Havoc is based on Mace with similar yield stability and is well adapted to all areas of WA

Upgraded to Premium Hard AH (N) classification and suitable for Noodle blending segregations in WA

Yield increase of 2-7% on Mace over the last 5 years in WA

Quick maturity for main season planting like Corack and Mace with shorter canopy for crop and stubble management

Good Stripe Rust (MR), Nodorum blotch (MS) and Yellow Spot (MRMS) resistance

Improved Powdery Mildew resistance (MRMS) over Mace and Scepter to reduce disease build up in lower canopies

DISEASE RESISTANCE						
Stem Rust	S					
Leaf Rust	S					
Stripe Rust YrWA	MR					
Stripe Rust Yr17+27+	MR					
Septoria tritici WA	MRMS					
Nodorum blotch	MS					
Crown Rot	S					
Yellow Spot	MRMS					
Powdery Mildew	MRMS					
CNN Res	S					
Black Point	MS					

Resistance ratings: VS = Very Susceptible S = Susceptible, MS=Moderately Susceptible MR = Moderately Resistant, R = Resistant Tol Rating - T = Tolerant, MT = Moderately Tolerant MI = Moderately Intolerant, I = Intolerant Data sourced NVT and LongReach Plant Breeders 2019. p = Preliminary Data Based on limited data set

AGRONOMIC FFATURES

The cross (Mace/LPB07-0980) aimed to combine Mace's broad adaption with the superior canopy of a high yielding LongReach breeding line.

Havoc has a compact plant type throughout the season with an erect open canopy with upright leaves. Havoc spends time developing tillers in a similar manner to Wyalkatchem but with noticeable broader leaves to improve competition and vigour. Importantly Havoc has retained Wyalkatchems trait of prioritising tillering and does not rush like Mace has shown a tendency to do in warmer winters. The typical timing of heading is between Corack and Mace making Havoc a quick main season variety.

The flag leaf is distinctively erect with blocky heads at grain filling and Havoc has a similar height to Cobra or Wyalkatchem at maturity. From heading to grain filling, Havoc has shown it develops very fast to be a quick finishing variety at harvest.



TECHNOTE

YIELD PERFORMANCE

Long Term data shows that Havoc is broadly adapted as it has consistently out yielded Mace, Corack and Wyalkatchem in WA. Scepter has also consistently out yielded Mace and is replacing it on farm in WA.

Partnering Scepter with Havoc is an excellent strategy as Havoc has guicker maturity to suit faster finishing situations and improved Powdery Mildew resistance (Havoc, MRMS; Scepter, S) adds security in an epidemic year. Havoc has also shown it can deliver a higher protein than Scepter.

WA Main Season Long Term (2014-18) MET Predicted Yield (%SMY)												
Yield Range		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
Site Mean Yield	t/ha	0.82	1.34	1.75	2.25	2.77	3.28	3.74	4.20	4.69	5.23	5.66
Variety	Trial No.	4	15	21	22	36	26	24	20	16	2	3
Corack	189	105	109	103	103	105	102	103	103	103	98	101
LRPB Havoc	102		108	107	107	109	105	106	105	106		106
Масе	189	105	107	103	103	104	102	103	103	103	99	102
Scepter	145		112	110	111	111	110	111	110	110		109
Wyalkatchem	189	100	101	101	101	100	99	100	100	99	97	99
LRPB Havoc was first included in WA NVT Main Season trials in 2016 and Scepter in 2015												

WA Main Season (2013-18) LongReach Yield (%SMY) - Years										
Year		2013	2014	2015	2016	2017	2018	Ave t/ha		
Site Mean Yield	t/ha	2.03	3.90	2.65	3.42	3.71	3.98	3.49		
Variety	Trial No.	2	6	6	4	6	9	33		
Corack	33	120	103	96	100	100	103	3.55		
LRPB Havoc	33	134	105	111	110	109	106	3.78		
Масе	33	118	103	106	105	102	103	3.63		
Scepter	19	-	-	-	104	109	112	-		
Wyalkatchem	33	115	104	99	99	99	98	3.50		
Scepter first included in WA LPB trials in 2016										



PLANT BREEDERS RIGHTS

LongReach Havoc is protected by Plant Breeders Rights (PBR). In regard to propagating material (planting seed) of this variety, any unauthorised commercial production or reproduction, conditioning for propagation, offering for sale, sale, import, export or stocking of propagating material is an infringement under the Plant Breeders Rights Act 1994. Grower PBR to grower trading of seed of LongReach Havoc is allowed.

Each time a grower purchases seed of LongReach Havoc the grower agrees to comply with the Variety Licence and Royalty Agreement, including agreement to pay the EPR of \$4.00 per tonne (GST excl). EPR is payable on all grain production, except on seed retained by the grower for replanting by the grower. The majority of the EPR will be paid by Advanta Seeds to the Breeder (LongReach Plant Breeders) for investment in future wheat breeding programs.

he information provided in this publication is intended as a guide only. Advanta Seeds Pty Ltd (including its officers, employees, contractors and agents) ('Advanta seeds') can not guarantee that every statement is without flaw of any kind. While Advanta Seeds has taken all due care to ensure that the information provided is occurate at the time of publication, various factors, including planting times and environmental conditions may aller the characteristics and performance from plants, dvanta Seeds shall not be liable for any errors of omissions in the information or for any loss, injury, damage or other consequence whatsoever that you or any erson might incur as a result of you use of or reliance upon the products (whether Advanta Seeds products or otherwise) and information which appear in this ublication. To the maximum extent permitted by law, the liability of Advanta Seeds for any claim whatsoever arising out of the supply or use of or reliance upon the roducts and information in this publication (including liability for breach of any condition or warranty implied by the Trade Practices Act 1974 or any other law) is mitted at its discretion, to the replacement of the products, the supply of equivalent products or the resupply of the publication. For application to specific conditions seek further advice from a local professional.

