

## CROP DEVELOPMENT CENTRE

**BREEDING INSTITUTION:** Crop Development Centre, 51 Campus Drive  
University of Saskatchewan  
Saskatoon, Saskatchewan S7N 5A8

**PLANT BREEDER:** Dr. Tom Warkentin | tom.warkentin@usask.ca

**DATE:** March 1, 2025

**SUBJECT:** **MFR171 | SMALL MARROWFAT PEA**

### Strengths:

- greater seed yield than the marrowfat checks
- small marrowfat size to fit specialty markets
- good green colour bleaching resistance
- powdery mildew resistance

### Neutral:

- medium plant height, similar to the checks
- better lodging resistance than marrowfat variety MFS041, similar to the other marrowfat checks
- medium maturity, similar to the marrowfat checks
- moderate *Mycosphaerella* blight resistance, similar to the checks

### Figure 1.

#### Summary of the performance of small marrowfat pea variety MFR171 in the CDC 2016 marrowfat elite yield trial

Variety	locations	Type	5 yield	2 ht	4 lodg	4 mat	1 myco	2 sdwt	2 bleach
CDC Meadow		Y	100	93	4.0	1.3	8.0	220	na
Rambo		MF	72	100	5.1	1.9	7.3	372	2.5
MFS041		MF	77	78	7.9	1.1	8.7	420	2.5
MFR131		MF	81	97	5.1	2.1	7.4	397	2.3
<b>MFR171 (1217-2)</b>		MF	95	99	5.0	2.0	7.0	298	2.0

#### Notes

Yield: as % of yield of CDC Meadow

ht: plant height in cm

lodg: lodging score where 1=upright to 9=completely lodged

mat: maturity score where 1=early to 3=late

myco: mycosphaerella (ascochyta) blight score where 1=no disease to 9=completely blighted

sdwt: 1000 seed weight in grams

bleach: bleaching score where 1=no bleaching to 5=completely bleached

The CDC has approximately 25 kg of breeder seed available for the successful proponent.