Mela CL+

SOFT WHITE WINTER TWO-GENE IMI WHEAT

Mela CL+ is a soft white common winter two-gene Imidazolinone tolerance (Clearfield) wheat variety developed and released in 2013 by the Agricultural Research Center of Washington State University. It’s the second two-gene Clearfield (CL+) wheat variety released by WSU. Compared to the single-gene Clearfield, the two-gene technology provides significantly better tolerance to Imidazolinone group of herbicide imazamox. Mela CL+ was developed using marker-assisted background selection approach. Compared to popular wheat varieties including those with Clearfield technology, Mela CL+ has higher yield potential, excellent snow mold resistance, and better stripe rust resistance. Mela CL+ is ideal for Pacific Northwest areas where ORCF103, Eltan and Xerpha are currently grown.

AGRONOMICS
- Imidazolinone Tolerance: Two-gene
- Yield Potential: Excellent
- Test Weight: High
- Grain Protein: Good
- Cookie Diameter: Very Good
- Sponge Cake Performance: Superior
- Quality: Acceptable

DISEASE RESISTANCE
- Stripe Rust: Moderately Resistant
- Snow Mold: Better than Eltan
- Winter Hardiness: Similar to Eltan
- Cephalosporium Stripe: Similar to Eltan
- Strawbreaker Foot Rot: Similar to Eltan
### 3-Year Average Yield (bu/acre) and Test Weight from 2012–2014

<table>
<thead>
<tr>
<th>Variety</th>
<th>St. Andrews</th>
<th>Connell</th>
<th>Lind</th>
<th>Almira</th>
<th>Reardan</th>
<th>Creston</th>
<th>Fairfield</th>
<th>Pullman</th>
<th>Waterville</th>
<th>Yield Mean</th>
<th>Test Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mela CL+</td>
<td>61</td>
<td>32</td>
<td>38</td>
<td>102</td>
<td>100</td>
<td>85</td>
<td>77</td>
<td>127</td>
<td>87</td>
<td>79</td>
<td>60.1</td>
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<tr>
<td>ORCF102</td>
<td>59</td>
<td>29</td>
<td>30</td>
<td>86</td>
<td></td>
<td>68</td>
<td></td>
<td>112</td>
<td>75</td>
<td>66</td>
<td>60.2</td>
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<tr>
<td>ORCF103</td>
<td>58</td>
<td>28</td>
<td>41</td>
<td>103</td>
<td>95</td>
<td>84</td>
<td>70</td>
<td>128</td>
<td>81</td>
<td>76</td>
<td>59.5</td>
</tr>
</tbody>
</table>

1. Data from WSU Variety Testing Program
2. Data from 2011 and 2012
3. Data from regional trials

**Availability:** Foundation seed of **Mela CL+** is maintained by the Washington State Crop Improvement Association. For seed inquiries please call (509) 334-0461. U.S. Plant Variety Protection for this cultivar is pending.

Support for the development of this variety was provided by the Washington Grain Commission. For more information please visit [http://variety.wsu.edu/](http://variety.wsu.edu/).