Agricultural Marketing Service, USDA

§ 201.51b Purity procedures for coated seed.

(a) The working sample for coated seed is obtained as described in §201.46(d) (1) and (2), and weighed in grams to four significant figures.

(b) Any loose coating material shall be sieved, weighed, and included with the inert matter component.

(c) Coating material is removed from the seed by washing with water or other solvents such as, but not limited to, dilute sodium hydroxide (NaOH). Use of fine mesh sieves is recommended for this procedure, and stirring or shaking the coated units may be necessary to obtain de-coated seed.

(d) Spread de-coated seed on blotters or filter paper in a shallow container. Air dry overnight at room temperature.

(e) Separation of component parts:

(1) Kind or variety considered pure seed.

TABLE OF FACTORS TO APPLY TO MULTIPLE UNITS

<table>
<thead>
<tr>
<th>Percent of single units of each kind</th>
<th>Chewings fescue</th>
<th>Red fescue</th>
<th>Or-</th>
<th>Crested</th>
<th>Pubescent</th>
<th>Intermediate</th>
<th>Tall</th>
<th>Western</th>
<th>Smooth brome</th>
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<tr>
<td>50 or below</td>
<td>91</td>
<td>80</td>
<td>80</td>
<td>70</td>
<td>66</td>
<td>72</td>
<td>—</td>
<td>—</td>
<td>72</td>
</tr>
<tr>
<td>50.01–55.00</td>
<td>91</td>
<td>81</td>
<td>81</td>
<td>72</td>
<td>67</td>
<td>74</td>
<td>—</td>
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<td>74</td>
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<tr>
<td>55.01–60.00</td>
<td>91</td>
<td>82</td>
<td>82</td>
<td>73</td>
<td>67</td>
<td>75</td>
<td>—</td>
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<td>75</td>
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<tr>
<td>60.01–65.00</td>
<td>91</td>
<td>83</td>
<td>83</td>
<td>74</td>
<td>67</td>
<td>76</td>
<td>—</td>
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<td>76</td>
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<tr>
<td>65.01–70.00</td>
<td>91</td>
<td>84</td>
<td>84</td>
<td>75</td>
<td>68</td>
<td>77</td>
<td>—</td>
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<td>78</td>
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<tr>
<td>70.01–75.00</td>
<td>91</td>
<td>86</td>
<td>86</td>
<td>76</td>
<td>68</td>
<td>78</td>
<td>—</td>
<td>60</td>
<td>78</td>
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<tr>
<td>75.01–80.00</td>
<td>91</td>
<td>87</td>
<td>87</td>
<td>77</td>
<td>69</td>
<td>79</td>
<td>50</td>
<td>67</td>
<td>81</td>
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<tr>
<td>80.01–85.00</td>
<td>91</td>
<td>88</td>
<td>88</td>
<td>78</td>
<td>69</td>
<td>80</td>
<td>55</td>
<td>68</td>
<td>82</td>
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<tr>
<td>85.01–90.00</td>
<td>91</td>
<td>89</td>
<td>89</td>
<td>79</td>
<td>69</td>
<td>81</td>
<td>65</td>
<td>70</td>
<td>83</td>
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<tr>
<td>90.01–100.00</td>
<td>91</td>
<td>90</td>
<td>90</td>
<td>80</td>
<td>70</td>
<td>82</td>
<td>70</td>
<td>74</td>
<td>85</td>
</tr>
</tbody>
</table>

The factors represent the percentages of the multiple unit weights which are considered pure seed. The remaining percentage is regarded as inert matter.

*Includes both standard crested wheatgrass and fairway crested wheatgrass.

* Dashes in table indicate that no factors are available at the levels shown.

[59 FR 64498, Dec. 14, 1994]
§ 201.52

(2) Other crop seed.
(3) Inert matter.
(4) Weed seed.

(f) The de-coated seed shall be separated into four components in accordance with §§201.48 through 201.51. §§201.51a (a) and (b) shall not be followed. The weight of the coating material is determined by subtracting the sum of the weights of the other four components from the original weight of the working sample. The percentage of coating material shall be included with the inert matter percentage. Calculate percentages of all components based on the original weight of the working sample (see paragraph (a) of this section).

[59 FR 64499, Dec. 14, 1994]

§ 201.53 Source of seeds for germination.

(a) When both purity and germination tests are required, seeds for germination shall be taken from the separation of the kind, variety, or type considered pure seed and shall be counted without discrimination as to size or appearance.

(b) When only a germination test is required and the pure seed is estimated or determined to be at least 98 percent, the pure seed for the germination test may be taken indiscriminately from a representative portion of the bulk.

(c) When only a germination test is required and the pure seed is found to be less than 98 percent, the seed for the test shall be obtained by separating the sample into two components as follows:

(1) Pure seed and (2) other crop seed, weed seed, and inert matter. In making this separation at least ¼ of the quantity required for a regular purity analysis shall be used. The whole sample must be well mixed and divided in such a manner as to get a completely representative subsample.

[10 FR 9952, Aug. 11, 1945, as amended at 20 FR 7931, Oct. 21, 1955]

§ 201.54 Number of seeds for germination.

At least 400 seeds shall be tested for germination; except that in mixtures, 200 seeds of each of those kinds present to the extent of 15 percent or less may be used in lieu of 400, in which case an additional 2 percent is to be added to the regular germination tolerances. The seeds shall be tested in replicate tests of 100 seeds or less.

[59 FR 64500, Dec. 14, 1994]

§ 201.55 Retests.

Retests shall be made as follows:

(a) When the range of 100-seed replicates of a given test exceeds the maximum tolerated range in the table appearing in this section.