

1 Department of Agriculture

2

3 Adopted Permanent Rules Relating to Seed Potato Production

4

5 Rules as Adopted

6 1555.6850 REQUIREMENTS FOR PRIMARY FOUNDATION CERTIFIED SEED

7 POTATO PRODUCTION.

8 Primary Foundation certified seed potatoes consist of
9 potatoes which meet all the requirements of parts 1555.6750 to
10 1555.6840 as well as the additional requirements in this part:

11 A. [Unchanged.]

12 B. Primary Foundation or Pre-Nuclear, Nuclear,
13 Generation One, Generation Two, Generation Three, and Generation
14 Four certified seed potatoes shall be the only potatoes grown on
15 the farm. Primary Foundation certified seed potatoes shall be
16 grown from potatoes produced on a tuber unit seed plot.

17 C. to G. [Unchanged.]

18 1555.6851 REQUIREMENTS FOR PRE-NUCLEAR AND NUCLEAR CERTIFIED

19 SEED POTATO PRODUCTION.

20 Subpart 1. Pre-Nuclear certified seed potatoes.

21 Pre-Nuclear seed potatoes consist of potatoes that meet all the
22 requirements of parts 1555.6750 to 1555.6850, as well as the
23 additional requirements in this part.

24 A. A lot grown as and intended to be Pre-Nuclear must
25 be grown from plants tested and shown to be free from the
26 following pathogens:

27 (1) *Corynebacterium sepedonicum* (ring rot);

28 (2) *Erwinia carotovora* (blackleg);

29 (3) potato virus X;

30 (4) potato virus S;

31 (5) potato virus A;

32 (6) potato virus M;

33 (7) potato virus Y;

34 (8) potato spindle tuber viroid; and

35 (9) potato leafroll virus.

1 B. Pre-Nuclear seed potatoes must be produced in a
2 greenhouse, under sanitary conditions, free from insects and
3 weeds that can harbor or transmit potato diseases or other
4 conditions of possible disease contamination. All facilities
5 and equipment are subject to inspection as considered necessary
6 by the commissioner to verify freedom from possible disease
7 contamination.

8 C. A representative number of plants or tubers from
9 each lot must be tested during the growing season to verify that
10 the crop is free from potato virus X, potato virus Y, *C.*
11 *sepedonicum*, and *E. carotovora*.

12 D. All plants must be inspected at least two times
13 during the growing season. Additional inspections may be made
14 if considered necessary by the commissioner.

15 E. A lot must be rejected if it contains any diseased
16 plants or varietal mixture, unless the plants are removed by the
17 grower before the next inspection.

18 F. If bacterial ring rot is found in any lot, the
19 remaining crop is not eligible for certification planting.

20 G. Limited Generation and Primary Foundation must be
21 the only classes of certified seed potatoes grown on the farm.

22 Subp. 2. Nuclear certified seed potatoes. Nuclear seed
23 potatoes consist of potatoes that meet all the requirements of
24 parts 1555.6750 to 1555.6850 as well as the additional
25 requirements in this part.

26 A. The seed source must be either Pre-Nuclear tubers
27 or plantlets which were produced in accordance with part
28 1555.6851, subpart 1.

29 B. Tubers or plantlets must be planted in
30 identifiable family units.

31 C. Not more than 0.1 percent of virus diseases,
32 excluding potato virus X, is allowed on any field inspection.
33 No blackleg, spindle tuber, or varietal mixture is allowed.

34 D. Each field must be tested during the growing
35 season for potato virus X. For a lot to be tagged "virus
36 tested" no more than one percent of the plants tested may be

1 infected with potato virus X.

2 E. A sample of each lot must meet the same winter
3 test requirements as prescribed for Primary Foundation certified
4 seed potatoes in part 1555.6850, item E.

5 F. Each lot must be stored in an individual
6 identifiable unit.

7 G. Limited Generation and Primary Foundation must be
8 the only classes of certified seed potatoes grown on the farm.

9 H. If bacterial ring rot is found in any field or
10 lot, the remaining crop is not eligible for certification
11 planting.

12 1555.6852 REQUIREMENTS FOR GENERATION CERTIFIED SEED POTATO
13 PRODUCTION.

14 Subpart 1. Requirements. Generation certified seed
15 potatoes consist of potatoes that meet all the requirements of
16 parts 1555.6750 to 1555.6850 as well as the additional
17 requirements in this part.

18 A. A sample of each lot must meet the same winter
19 test requirements as prescribed for Primary Foundation certified
20 seed potatoes in part 1555.6850, item E.

21 B. No spindle tuber is allowed on any field
22 inspection.

23 C. Each field may be tested during the growing season
24 for potato virus X. For a lot to be tagged "virus tested" no
25 more than three percent of the plants tested may be infected
26 with potato virus X.

27 D. If bacterial ring rot is found in any field or
28 lot, the remaining crop is not eligible for certification
29 planting.

30 E. Each lot must be stored in an individual
31 identifiable unit.

32 Subp. 2. Generation One. The seed source must be Nuclear
33 class certified seed potatoes or the equivalent. No more than
34 0.2 percent of virus diseases or blackleg is allowed on any
35 field inspection. No varietal mixture is allowed.

1 Subp. 3. **Generation Two.** The seed source must be
2 Generation One class certified seed potatoes or the equivalent.
3 Not more than 0.2 percent of virus disease or 0.5 percent
4 blackleg is allowed on any field inspection. No varietal
5 mixture is allowed.

6 Subp. 4. **Generation Three.** The seed source must be
7 Generation Two class certified seed potatoes or the equivalent.
8 No more than 0.3 percent of virus diseases or one percent
9 blackleg is allowed on any field inspection. No more than 0.1
10 percent varietal mixture is allowed.

11 Subp. 5. **Generation Four.** The seed source must be
12 Generation Three class certified seed potatoes or the
13 equivalent. Not more than 0.3 percent of virus diseases or 0.1
14 percent varietal mixture is allowed on any field inspection.

15 Subp. 6. **Generation Five.** The seed source must be
16 Generation Four class certified seed potatoes or the
17 equivalent. Not more than 0.4 percent of virus diseases or 0.2
18 percent varietal mixture is allowed on any field inspection.
19 Generation Five seed potatoes are not tested for potato virus X,
20 winter tested, or eligible for certification planting the
21 following year.