

TRANSMITTAL OF RULES ADOPTED

FROM: Department of Agriculture
(Name of Agency)

TO: CODE REVISER
LEGISLATIVE BLDG (Southwest Corner, Ground Floor)
Olympia 98501

The enclosed Permanent rules , being order No. 1264
Emergency rules

relating to (Name of rules or description of subject matter)

Rules for the Certification of Hop Rootstocks

(ALTERNATIVE A. Use only for adoption of permanent rules)

pursuant to Notice No. 3432^① filed with the code reviser on 4-4-72^② were regularly adopted as permanent rules of this agency at Olympia, Washington on 5/10/72 and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW. The effective date of such rules shall be 6/9/72^③

(ALTERNATIVE B. Use only for adoption of emergency rules)

pursuant to its finding that the immediate adoption of these rules is necessary for the preservation of the public health, safety, or general welfare and that observance of the requirements of notice and opportunity to present views on the proposed action would be contrary to the public interest, were regularly adopted as emergency rules of this agency at _____ on _____ and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW.

The undersigned hereby certifies that the requirements of chapter 34.04 RCW and of the Open Public Meetings Act of 1971, chapter 42.30 RCW (1971 ex.s. c 250) have been fulfilled.

Dated this _____ tenth day of May 19 72

STATE OF WASH. GTON
FILED
MAY 10 1972
CODE REVISER'S OFFICE
D. KET.# 4073 FILE # 25

Department of Agriculture
(AGENCY)
Cameron S. Adams
By Cameron S. Adams
Acting Director of Agriculture
Title

- ① NOTICE NUMBER AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE NO. OF LAST NOTICE)
- ② STAMPED DATE AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE DATE OF LAST NOTICE)
- ③ UNLESS A LATER DATE IS SPECIFIED IN THIS ORDER OR IS PRESCRIBED IN ANOTHER STATUTE, RULES ARE EFFECTIVE 30 DAYS AFTER FILING: RCW 34.04.040. LEAVE THIS SPACE BLANK EXCEPT IN SUCH SPECIAL CASES.

Chapter 16-354

RULES FOR THE CERTIFICATION OF HOP ROOTSTOCKS

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
OLYMPIA

ORDER NO. 1264
(Superseding Order No. 1023)

RULES FOR THE CERTIFICATION OF HOP ROOTSTOCKS
Effective June 9, 1972

NEW WAC 16-354-002 PROMULGATION. (This promulgation relates to WAC 16-354-001, WAC 16-354-010, WAC 16-354-020, WAC 16-354-030, WAC 16-354-040, WAC 16-354-050, and WAC 16-354-060. WAC 16-354-001 and WAC 16-354-060 are repealed.)

I, Cameron S. Adams, acting director of agriculture of the state of Washington, by virtue of the authority vested in me under Chapter 15.14 RCW and after due notice and public hearing held in Yakima, Washington, on May 3, 1972, pursuant to Chapters 42.30 and 34.04 RCW do hereby establish the following rules for the certification of hop rootstocks.

NEW WAC 16-354-005 GENERAL. (1) Rootstocks of hops (Humulus Lupulus L.) may be designated as foundation stock, registered stock and certified stock when inspected, tested and found to be true-to-name (not off-type) and discernibly free from virus (not virus infected) and virus-like diseases, downy mildew, verticillium wilt, crown gall, rootknot nematode, hop cyst nematode or other serious pests, by procedures and inspections outlined in this program.

(2) Certification does not imply any warranty on the part of the department or any employee thereof.

(3) Participation in this program shall be voluntary.

AMD WAC 16-354-010 DEFINITIONS.

(1) "Virus infected (affected)" means presence of virus(es) in a plant or plant part.

(2) "Virus-like" means a disorder of genetic or non-transmissible origin.

(3) "Off-type" means not true-to-name.

(4) "Indicator plant" means any herbaceous or woody plant used to index or determine virus infection.

(5) "Index" means to determine virus infection by means of inoculation from the plant to be tested to an indicator plant or by any other method.

(6) "Foundation rootstock" means a planting of hop rootstock established, operated and maintained by Washington State University, that are indexed to be free from known viruses and that are true-to-name. Cuttings or rooted plants, to establish registered blocks, will be furnished to the applicant for a fee determined by Washington State University.

(7) "Registered rootstock" means rootstock produced from foundation or registered rootstock and has met the requirements as herein provided.

(8) "Certified rootstock" means rootstock produced from registered rootstock and has met the requirements as herein provided.

(9) "Verticillium wilt" means the disease caused by Verticillium Albo-atrum Reinke & Berth. or hop strains of this organism.

(10) "Downy mildew" means the disease caused by Pseudoperonospora Humuli Miy. & Tak., G. W. Wils.

(11) "Crown gall" means the disease caused by Agrobacterium tumefaciens E. F. Sm. & Towns., Conn.

(12) "Rootknot nematode" (Meloidogyne sp.)

- (13) "Hop cyst nematode" (Heterodera humuli) Filipjev.
(14) "Crown" means a slip or layered stem cutting with visible buds, that has been grown for 1 or 2 years.

AMD WAC 16-354-020 FIELD STANDARDS FOR PRODUCTION OF REGISTERED AND CERTIFIED HOP ROOTSTOCK.

(1) Land requirements. (a) A field to be eligible for production of registered or certified hop rootstocks must never have grown hops, provided that a field is eligible to be replanted with the identical hop strain of equal standards.

(b) Land proposed for producing registered and certified hop rootstocks must be approved by the department in respect to location, drainage and adaptability.

(2) Isolation requirements. (a) A field to be eligible for production of registered or certified hop rootstock must be at least 50 feet from or separated by a barrier that would isolate the planting from any other hop plants unless these plants also meet the requirements of this program.

(b) A grower of registered or certified hop rootstocks may grow one or more hop varieties or strains provided each such variety or strain is separated by not less than 21 feet.

(3) Plant requirements. (a) Only propagations from hop roots of approved strains which have been grown as foundation or registered stock may be planted for the production of registered rootstock.

(b) Only propagations from hop roots of approved strains which have been grown as registered stock may be planted for the production of certified rootstock.

(c) Registered and certified stock shall remain in the nursery no more than two growing seasons.

(d) In roguing, growers must dig and immediately destroy all low yielding, unhealthy appearing, off-type, diseased or otherwise abnormal plants.

(e) Plant pests and weeds are to be effectively controlled.

AMD WAC 16-354-030 INSPECTIONS. (1) The first for downy mildew, verticillium wilt and other diseases and pests. The presence of verticillium wilt will disqualify the field.

(2) The second depending on suitable weather conditions, would be primarily for detection of viruses.

(3) Rootstocks. The planting material, slips or rhizomes, layered stem cuttings or crowns, must be inspected at digging and/or at planting time to determine freedom from serious pests.

AMD WAC 16-354-040 APPLICATION AND FEES. (1) The applicant grower shall furnish to the department all information pertinent to the operation of this program and shall give his consent to the department to take material for examination and testing.

(2) Application for inspection and testing of registered and certified stock must be filed with the department by February 1 of each year accompanied by a \$40 application fee.

(3) Inspection fees are \$12.50 for each acre or fraction thereof per inspection.

(4) Payment for inspection of registered blocks and nursery stock for registration and certification must be made upon completion of the inspection. Billing to the nurseryman to be made by the plant industry division.

AMD

WAC 16-354-050 TAGGING AND IDENTITY. (1) Tagging. The department will issue a certificate covering hop rootstocks that meet the requirements of this program and authorize the use of official certification tags for the identification of such rootstocks.

(2) Identity. Any person selling certified hop rootstock is responsible for the identity of the stock bearing each tag and for such stock meeting the requirements of this program. Persons issued tags authorized by the program shall account for stock produced and sold, and keep such records as may be necessary. Containers for hop rootstocks must be new.

NEW

WAC 16-354-070 FIELD STANDARDS. (1) The unit of certification will be the entire lot within the field standing at the time of inspection.

(2) Specific requirements. (Percentage tolerances)

	<u>Registered</u>	<u>Certified</u>
Downy mildew	0	5%
Verticillium wilt	0	0
Virus	0	0.1%
(a) Mosaic		
(b) Ringspot-line pattern		

NEW

WAC 16-354-080 EFFECTIVE DATE. This order shall take effect on and after June 9, 1972.

REP

WAC 16-354-001 and WAC 16-354-060 are hereby repealed.

I hereby certify that the foregoing is a true and correct copy of the regulations promulgated.



CAMERON S. ADAMS
Acting Director of Agriculture
State of Washington

Signed at Olympia, Washington

Date: May 10, 1972