

Mark Steinberg & Associates



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RESUME OF MARK STEINBERG

BIRTH: March 11, 1952
Inglewood, CA

OCCUPATION: Agricultural Consultant
Mark Steinberg & Associates

EDUCATION:

<u>Dates</u>	<u>Degree and School</u>
1971-1972	El Camino Junior College Torrance, CA Undeclared major
1972-1973	California State University, Fresno Fresno, CA Biology major
1973-1976	Humboldt State University Arcata, CA BS in Botany (1976) Also attended University of Montana Biological Station (1975)
1977-1979	California State University, Fresno MS in Plant Science (1979)
1979-1982	University of Arizona Tucson, AZ Ph.D. in Plant Pathology (1982)

EXPERIENCE:

<u>Dates</u>	<u>Type</u>
1977-1979	Graduate studies of Spanish Measles disease complex of grape-

	vines. Assisted in development of auto-tutorial course in diseases of fruit and field crops.
1978-1979	Served as Research Technician for the USDA Insects Harmful to Man and Other Animals Division.
1978	Served as Research Technician on a grant to CSU, Fresno from Pittsburgh Plate Glass Co. Responsibilities included quantification of agricultural soils for various pathogenic fungi after chemical treatment.
1979-1982	Graduate work in isolation, identification, and practical uses of Vesicular-arbuscular mycorrhizal fungi relating to enhanced growth of plants. During graduate studies served as a diagnostician in a plant disease clinic observing and diagnosing problems to many agricultural and ornamental plants. Also, acted as teaching assistant for two semesters for the University of Arizona Department of Plant Pathology teaching 'Diagnosis of Plant Diseases'.
1982-1990	Partnership in an Agricultural Consulting business conducting investigations involved with crop damage cases.
1990-1992	Consultant working as a Plant Pathologist, Agronomist and Pest Control Advisor for Bio-Ag Services and JM Lord, Inc. of Fresno, CA. Also working as a private consultant with Mark Steinberg & Associates.
1996-2006	Served as an Inspector for California Certified Organic Farmers.
2003-2006	Served as a Board Member of the Organic Materials Review Institute.
2006	Conducted site inspections for the Organic Materials Review Institute
1993-2013	Working as a private consultant with Whaley & Steinberg.
2013-present	Working as a private consultant with Mark Steinberg & Associates.

A summary of professional experience since 1982 includes diagnosis of causes of agricultural and ornamental plant problems, in-field and lab studies, photo and video documentation, sample collection (soil, water, tissue and waste effluent), lab results interpretation, economic loss calculations, report writing and expert testimony. Experience also includes working extensively as a licensed California Pest Control Advisor specializing in Biological Control but also having practical experience with pesticide application, residue sampling, efficacy and toxicity. Other duties have included irrigation and fertility management of many crops grown in California.

EXAMPLES OF PROJECTS AND INVESTIGATIONS

1. Pesticide-Related Cases

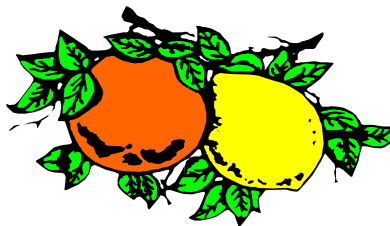
- a. Off site movement into crops of Urea-based herbicides.
- b. Misapplication of pesticides including Karmex, Eptam, Phenoxy herbicides, Roundup, Bladex, Treflan, Triazines as well as many fungicides and insecticides. Misapplication of fertilizers and adjuvents have also been investigated.

2. Pest Management Cases

- a. Isolation from diseased tissue and identification of pathogens from many types of crops and ornamental plants.
- b. Eutypa disease of grapevines.
- c. Various disease problems of tomatoes, including Phytophthora sp., bacterial speck and virus diseases.
- d. Spanish Measles of grapevines.
- e. Phytophthora spp. caused diseases of many perennial crops including Kiwi, Citrus, Almonds, Walnuts, Cherries and other Stone Fruits.
- f. Powdery Mildew disease of various crops.
- g. Mealybug damage to grapevines.
- h. Russet Mite damage to tomatoes.
- i. California Red Scale on Citrus.
- j. Nematode diseases of many crops.
- k. Storage disease problems of onion, grapes, stone fruit, apples, Brazil Nuts, and
- l. Weed infestations in cotton, beans and other crops.
- m. Soil-borne disease problems of carrots.

3. Special Projects

- a. Determine options for remediation of vineyard contaminated with herbicides moved off site.
- b. Determine options for remediation of crop land contaminated with a non-registered herbicide.
- c. Remediation of fungicide contaminated apples exposed to a non-registered fungicide during packing.
- d. Monitoring program for waste effluents related to raisin and winery facilities.
- e. Determination of affects of cattle grazing on various species of endangered plants.
- f. Evaluation of cropped and non cropped acreage for agricultural production.
- g. Evaluation of affects of using brine waste contaminated ground water on crops.
- h. Evaluation of irrigation districts water use affects on soil chemistry and drainage.
- i. Site inspections of manufacturers of products for organic farming to ensure compliance with regulations.



1. Steinberg, M. 1979. Spanish Measles: A Serious Disease of Grapevines. Master's Thesis. CSU, Fresno.
2. Peoples, T.A., S.M. Alcorn, H.E. Bloss, W.F. Clay, M. Flag, J. Hoffman, S. Luna, S. P. Mcloouglin, M. Steinberg, D. Young. 1981. Euphorbia lathyris; A Future Source of Hydrocarbon. Biosources 3.
3. Steinberg, M. 1982. Influence of Vesicular-arbuscular Mycorrhizal Fungi on the Growth of Alfalfa in Arizona. Ph.D. Dissertation-University of Arizona.
4. Steinberg, M., H.E. Bloss, M. Schonhorst, and C.M. Pfeiffer. 1983. Influence of Vesicular-arbuscular Mycorrhizal Fungi on Alfalfa. Arizona Plant Pathology Journal.
5. Steinberg, M. and H.E. Bloss. 1980. Growth and Pathogen Interactions of Mycorrhizal Euphorbia lathyris. Paper presented to the Fifth North American Conference on Mycorrhizae, Quebec, Canada.
6. Steinberg, M. and H.E. Bloss. 1982. Selection of Mycorrhizal Fungi for use on Alfalfa grown in Arizona. Abstract, Phytopathology 72:958. Paper presented at 1982 APS National Meetings.

PROFESSIONAL SOCIETIES

1. American Phytopathological Society. Also Pacific Division member. Member of the Private Practice committee.
2. Agronomy Society of America.
3. Soil Science Society of America.
4. Crop Science Society of America.
5. California Agricultural Production Consultants.

Licensed California Pest Control Advisor (#73178)