

INDEX

Volume 27, 1976

AUTHORS

A

- Ahmedullah, M. See K. E. Nelson. 27:74-9.
- Alley, C. J., R. B. Tyree, A. A. Matta, and K. W. Greer. Grapevine propagation. VI. Variations on standard field budding. 27:44-6. Abstracts. 27:50.
- Amerine, M. A. Abstracts. 27:48,49,92,93,151,152,153,194.

B

- Baker, J. C., and C. S. Ough. The enzymatic hydrolysis of N-carbethoxy proline and N-carbethoxy glycine. 27:12-14.
- Berg, H. W. See Joan Wikman-Coffelt. 27:115-17. Abstracts. 27:95,154,196.
- Bertrand, Gary L. Free sulfur dioxide in red wine: A comparison of analytical methods in relation to the thermodynamic activity. 27:106-10.
- Boggero, J. D., and L. Peter Christensen. Comparison of nitrate-nitrogen levels in grape petioles as determined by phenoldisulfonic acid and specific-ion electrode methods. 27:51-4.
- Bridle, P. See C. F. Timberlake. 27:97-105.

C

- Christensen, L. Peter. See A. N. Kasimatis. 27:145-9.
See J. D. Boggero. 27:51-4.
- Chudyk, R. V. Evaluation of grape-juice media for detecting viable yeasts in bottled wines. 27:82-3.
- Considine, J. A. See W. J. Hardie. 27:55-61.
- Cook, J. A. See J. B. Pinochet. 27:186-9.
- Coope, G. Abstracts. 27:93.
- Cunningham, H. N. Jr. See G. L. Jubb, Jr. 27:161-2.

E

- Eriksson, Kalervo. See A. Dinsmoor Webb. 27:27-31.

F

- Flora, L. F. Juice quality from whole Muscadine grapes held in cold storage. 27:84-7.
- Freeman, B. M., and R. E. Smart. A root observation laboratory for studies with grapevines. 27:36-9.

G

- Gnekow, B., and C. S. Ough. Methanol in wines and musts: source and amounts. 27:1-6.
- Greer, K. W. See C. J. Alley. 27:44-6.
- Guymon, J. F. Abstracts. 27:48.

H

- Hardie, W. J., and J. A. Considine. Response of grapes to water-deficit stress in particular stages of development. 27:55-61.
- Hawker, J. S., H. P. Ruffner, and R. R. Walker. The sucrose content of some Australian grapes. 27:125-9.
- Higgins, Perry A., and Andrew C. Peng. Lipid composition of 'Concord' grapes. 27:32-5.

J

- Jacobs, David D. Effect of dissolved oxygen on free sulfur dioxide in red wines. 27:42-3.
- Jensen, Fred, Don Luvisi, and George Leavitt. Effect of pre-bloom shoot treatment on yield and fruit characteristics of 'Cardinal' and 'Ribier' table grapes. 27:62-4.
- , Don Luvisi, Fred Swanson, George Leavitt, F. Gordon Mitchell, and Gene Mayer. Effects of complete and incomplete girdles in 'Thompson Seedless' and 'Ribier' table grapes. 27:65-7.
- Johnson, Tamis, and C. W. Nagel. Composition of central Washington grapes during maturation. 27:15-20.
- Jubb, G. L., Jr., and H. N. Cunningham, Jr. Birds associated with grapes in Erie county, Pennsylvania. 27:161-2.

K

- Kasimatis, A. N., and L. Peter Christensen. Response of "Thompson Seedless" grapevines to potassium application from three fertilizer sources. 27:145-9.
See W. E. Wildman. 27:168-75.
Abstracts. 27:95.
- Kepner, Richard E. See A. Dinsmoor Webb. 27:27-31.
Abstracts. 27:48, 154.
- Kliwer, W. Mark, and L. A. Lider. Influence of leafroll virus on composition of 'Burger' fruits. 27:118-24.
See Kalliopi A. Roubelakis. 27:163-7.
Abstracts. 27:91,92,150,151,192.
- Kokkalos, Tasos I. Postharvest decay control of Cyprus-grown grapes. 27:111-14.
- Kramling, T. E. See V. L. Singleton. 27:157-60.
- Kunkee, R. E. Abstracts. 27:47,92,195.

L

- Leavitt, George. See Fred Jensen. 27:62-4, 27:65-7.
- Lider, L. A. See W. Mark Kliwer. 27:118-24.
- Lowe, E. J., Albert Oey and T. Michael Turner. Gasquet thermovinification system perspective after two years operation. 27:130-3.
- Luvisi, Don. See Fred Jensen. 27:62-4, 27:65-7.

M

- Matta, A. A. See C. J. Alley. 27:44-6.
- Mattick, L. R., and A. C. Rice. Fatty acid composition of grape seed oil from native American and hybrid grape varieties. 27:88-90.
See J. C. Moyer. 27:134-5.
- Mayer, Gene. See Fred Jensen. 27:65-7.
- McCloskey, Leo P. An acetic acid assay for wine using enzymes. 27:176-80.
- Mitchell, F. Gordon. See Fred Jensen. 27:65-7.
- Morenzoni, R. A. Abstracts. 27:155.
- Moyer, J. C., and L. R. Mattick. Determination of methyl anthranilate in wine. 27:134-5.
- Muller, Carlos J. See A. Dinsmoor Webb. 27:27-31.

N

- Nagel, C. W. See Tamis Johnson. 27:15-20.
- Neja, R. A. See W. E. Wildman. 27:168-75.
- Nelson, K. E., and M. Ahmedullah. Packaging and

decay-control systems for storage and transit of table grapes for export. 27:74-9.

Noble, A. C. Abstracts. 27:47,94,95,154,196.

O

- Oey, Albert. See E. J. Lowe. 27:130-3.
- Olmo, H. P. Abstracts. 27:49,50.
- Ough, C. S., and W. A. Winton. An evaluation of the Davis wine-score card and individual expert panel members. 27:136-44.
See J. C. Baker. 27:12-14.
See B. Gnekow. 27:1-6.
See P. A. Stafford. 27:7-11.
Abstracts. 27:151,154,155,192,195.

P

- Peng, Andrew C. See Perry A. Higgins. 27:32-5.
- Peterson, Richard G. Formation of reduced pressure in barrels during wine aging. 27:80-1.
- Petrucci, Vincent E., and Robert Siegfried. The extraneous matter in mechanically harvested wine grapes. 27:40-1.
- Pinochet, J. B., and J. A. Cook. Individual and combined effects of *Pratylenchus vulnus* and *Xiphinema index* on potassium and zinc levels in *Vitis vinifera* 'Thompson Seedless' grapes. 27:186-9.

R

- Rice, A. C. Solid waste generation and by-product recovery potential from winery residues. 27:21-6.
See L. R. Mattick. 27:88-90.
- Roubelakis, Kalliopi A., and W. M. Kliwer. Influence of light intensity and growth regulators on fruit-set and ovule fertilization in grape cultivars under low temperature conditions. 27:163-7.
- Ruffner, H. P. See J. S. Hawker. 27:125-9.

S

- Siegfried, Robert. See Vincent E. Petrucci. 27:40-1.
- Smart, R. E. See B. M. Freeman. 27:36-9.
- Singleton, V. L., and T. E. Kramling. Browning of white wines and an accelerated test for browning capacity. 27:157-60.
Abstracts. 27:48,155.

Stafford, P. A., and C. S. Ough. Formation of methanol and ethyl methyl carbonate by dimethyl dicarbonate in wine and model solutions. 27:7-11.

Swanson, Fred. See Fred Jensen. 27:65-7.

T

Timberlake, C. F., and P. Bridle. Interactions between anthocyanins, phenolic compounds and acetaldehyde and their significance in red wines. 27:97-105.

Triplett, Fay. Canopy bark grafting. 27:190-1.

Turner, T. Michael. See E. J. Lowe. 27:130-3.

Tyree, R. B. See C. J. Alley. 27:44-6.

W

Weaver, R. J. Abstracts. 27:50,91,192,196,

Walker, R. R. See J. S. Hawker. 27:125-7.

Webb, A. Dinsmoor, Kalervo Eriksson, Carlos J. Muller, and Richard E. Kepner. Effect of alkoxy lactone wine volatiles on open-field behavior of rats. 27:27-31.

Abstracts. 27:93,193,194.

Wikman-Coffelt, Joan, and H. W. Berg. Radioimmunoassay method for analysis of ethylcarbamate in wine. 27:115-17.

Wildman, W. E., R. A. Neja, and A. N. Kasimatis. Improving grape yield and quality with depth-controlled irrigation. 27:168-75.

Winton, W. A. See C. S. Ough. 27:136-44.

Wolfe, Wade H. Identification of grape varieties by isozyme banding patterns. 27:68-73.

V

Van Wyk, C. J. Malo-lactic fermentation in South African table wines. 27:181-5.

SUBJECT INDEX

A

- Acetaldehyde. with anthocyanins and phenolics in red wine color. 27:97-106.
- Acetals. in grape distilled spirits. abst. 27:195.
- Acid. acetic, enzymic determination method. 27:176-80.
- fatty, in Concord grapes. 27:32-5.
in grape seed oil. 27:88-90.
- in winery solid waste. 27:21-6.
- malic, temperature influence in grape berry. abst. 27:91.
in Washington state grapes. 27:15-20.
- organic, maturation in Washington state grapes. 27:15-20.
- phaseic, and photosynthesis. abst. 27:150.
- tartaric, in virus infected vines fruit. 27:118-23.
in Washington state grapes. 27:15-20.
- total, effect of depth of irrigation on in grapes. 27:168-75.
- Aging. see Wine.
- Alcohol, wood. see, also, Methanol.
influence on color detection, abst. 27:153.
- Alkoxy lactone wine volatiles, effect on rat behavior. 27:27-31.
effect on rat electrocardiogram. 27:31.
rat liver changes. 27:29.
rat respiration. 27:29.
- Amino acid acylase enzyme. in hydrolysis. 27:12-14.
- Analytical methods. acetaldehyde, furfural determination. abst. 27:153.
ethyl carbamate in wine. 27:115-17.
fluorometric for methyl anthranilate determination. 27:134-5.
for free SO₂ in red wines, compared. 27:106-10.
sulfate analysis, automation. review. 27:154.
- Anthocyanin. in Concord grapes. abst. 27:93.
content and grape color grade. abst. 27:47.
with phenolic compounds in red wine color changes. 27:97-105.
- Aroma, muscat varieties. abst. 27:47.
of France. abst. 27:154.

B

- Bacteria, lactic acid, hybridization in. abst. 27:194.
- Barrel pressure. reduced and aging wines. 27:80-1.
- Bentonite. treatment and browning. 27:157-60.
- Birds. and grapes in Pennsylvania. 27:161-2.
- Browning. accelerated test for in white wines. 27:157-60.

C

- Charcoal. of grape and apple pomace. abst. 27:154.
- Chromatography, gas. beer volatiles determination. abst. 27:151.
in Concord grape lipid studies. 27:32-5.
diols and glycerol determination. abst. 27:154.
in methanol content studies. 27:1-6.
methanol and ethyl methyl dicarbonate formation in wine. 27:7-11.
organic acid analysis of Washington state wines. 27:16.
sugar determination in brewing malts. abst. 27:151.
vinyl chloride determination. abst. 27:48.
- liquid. high-pressure and sugar determination. abst. 27:150.
- paper. anthocyanin and phenolics in red wine color change. 27:98-9.
- Clarity, how to evaluate. abst. 27:194.
- Color. pigment development. abst. 27:153.
red wine, changes with anthocyanins and phenolics. 27:97-106.
effect of processing on. abst. 27:196.
Washington state grapes. 27:19.
- Cyprus, grapes of. postharvest decay control. 27:111-14.

D

- Decay. control of in storage grapes. 27:74-9.
postharvest control, Cyprus. 27:111-14.
- DEDC. see Diethyl dicarbonate.
- Diethyl dicarbonate. in wine. 27:7.
- Dimethyl dicarbonate. to form methanol and ethyl methyl carbonate in wine. studies. 27:7-11.
- Distillation. and methanol. 27:1-6.
New York state wine. abst. 27:48.
- DMDC. see Dimethyl dicarbonate.

E

- Enzymes. acetic acid determination. 27:176-80.
assay for acetate. abst. 27:195.
commercial pectolytic, in wine methanol study. 27:1-6.
determine acetoin. abst. 27:155.
hydrolysis studies. 27:12-14.
isozyme banding patterns. 27:68-73.

- Ethylcarbamate. from diethyl dicarbonate. abst. 27:155.
 and enzyme hydrolysis. 27:12-14.
 naturally occurring. abst. 27:155.
 radioimmunoassay analysis. 27:115-17.
- Ethyl methyl carbonate, and methanol. formation in wine. 27:7-11.
- F**
- Fermentation. methanol studies. 27:1-6.
- Fertilization, grape ovule, factors influencing. 27:163-7.
- Fertilizer, potassium. use on Thompson Seedless vines. 27:145-9.
- Foliage, grape. leafroll virus influence on fruit. 27:118-23.
 residues on. abst. 27:95.
- Fruit-set. factors influencing in grapes. 27:163-7.
- G**
- Gasquet thermovinification. discussion of. 27:130-3.
- Gel electrophoresis and isozyme banding patterns. 27:68-73.
- Gibberellins. effect on seed behavior, muscat grapes. abst. 27:192.
- Girdling. complete and incomplete effects on vine. 27:65-7.
- Grafting, canopy bark method. 27:190-1.
- Grape. abscisic acid analysis in. abst. 27:91.
 Anab-E-Shahi cultivar, response to chilling. abst. 27:150.
 Australian, sucrose in. 27:125-9.
 birds with, in Pennsylvania. 27:161-2.
 Burger and leafroll virus. 27:118-23.
 Cannon Hall muscat. abst. 27:194.
 Cardinal and decay control. 27:74-9.
 seeded, fruit set studies. review. 27:91.
 catechol oxidase, changes. abst. 27:48. reaction. abst. 27:150.
 Concord, lipid composition. 27:32-5.
 response to SADH. abst. 27:196.
 'dead arm' disease and elemental sulfur, abst. 27:91.
 decay control, postharvest in Cyprus. 27:111-14.
 and Emperor and Cardinal. 27:74-9.
 export, table, care of for storage and transport. 27:74-9.
 fertilization, ovule. 27:163-7.
 germplasm reserves in. review. 27:49.
 girdling, complete and incomplete, effects. 27:65-7.
 grafting, canopy bark method. 27:190-1.
 cuttings. abst. 27:50.
 growth regulators, influence on. 27:163-7.
 harvesting, mechanical. extraneous matter. 27:40-3.
 juice quality in frozen storage. 27:84-7.
 light intensity, influence on. 27:163-7.
 low temperature conditions studies. 27:163-7.
 macerated. methanol in. 27:1-6.
 Marbour disease in. abst. 27:50.
 necrosis of infected grafts. abst. 27:50.
 Ohio grapes. abst. 27:195.
 organic acid metabolism in. abst. 27:192.
 petiole nitrate-nitrogen level in. 27:51-4.
 Pierce's disease detection. review. 27:50.
 plant spacing and yield. abst. 27:50.
 pre-bloom shoot treatment effects. 27:62-4.
 rot in. review. 27:48.
 seed oil, fatty acids in. 27:88-90.
 in south India. abst. 27:49.
 tartrates. daily changes during ripening. abst. 27:193.
 Thompson Seedless, effect of light on canes. 27:192.
 effects of *Pratylenchus vulnus* and *Xiphinema index* on. 27:186-9.
 vines and potassium application reaction. 27:145-9.
 variety identification technique. 27:68-73.
 Ventura. review. 27:50.
 vine. propagation, budding variation. 27:44-6.
 root study laboratory. 27:36-9.
 Washington state. composition of during maturation. 27:15-20.
 varieties for. 27:95.
 water stress response in vines. 27:55-61.
 yield. increase by radiation. abst. 27:196.
 and quality, controlled irrigation. 27:168-75.
- Grape vine. see Grape.
- Grape-juice media and viable yeast detection. 27:82-3.
- Growth regulators. effect on grape ovules and fruit-set. 27:163-7.
 on grapes. abst. 27:48.
 post harvest berry drop effect. abst. 27:192.
 effect on Pusa seedless grapes. abst. 27:151.
- I**
- Ion electrode method and nitrate-nitrogen level. 27:51-4.
- Irrigation. depth control and yield quality effect. 27:168-75.
- Isozyme banding patterns and identification of variety. 27:68-73.

J

Juice. see Grape-juice.

L

Lactones. see Alkoxy lactone.

Leafroll virus and Burger grape fruits. 27:118-23.

Lipids. in Concord grapes. 27:32-5.

Light intensity. effect on grape fruit-set and ovule maturation. 27:163-7.

M

Malic acid. see Acid, malic.

Malo-lactic fermentation, in South African wines. 27:181-5.

Mechanical harvesting extraneous matter in. 27:40-3.

Methanol. in wine and must. 27:1-6.
formation of and ethyl methyl carbonate. 27:7-11.

Methyl anthranilate, in wine. determination of. 27:134-5.

Must, and wine. methanol in. 27:1-6.

N

Native American and hybrid grapes. seed oil composition. 27:88-90.

N-carbethoxy glycine and proline. hydrolysis of. 27:12-14.

Nematodes. in Thompson Seedless grapes, effect on potassium and zinc. 27:186-9.

Nitrate-nitrogen level in grape leaf petioles. 27:51-4.

O

Open-field behavior, rats. 27:27-31.

P

pH. in Washington state grapes. 27:18-19.
and effect of depth of irrigation on in grapes. 27:168-75.

Phenoldisulfonic acid method and nitrate-nitrogen levels. 27:51-4.

Phenolic compounds. with anthocyanins and red wine color change. 27:97-106.

Propagation. grapevines, budding variation. 27:44-6.

Phosphoenolpyruvate carboxykinase, in grape berry activity. abst. 27:91.

Pomace. see Waste, solid.

Potassium. effect of nematodes on in Thompson Seedless grapes. 27:186-9.

effect of *Pratylenchus vulnus* and *Xiphinema index* on in grapes. 27:186-9.

in Thompson Seedless vine application. 27:145-9.

in virus infected vines fruit. 27:118-23.

in Washington state grapes. 27:18-19.

Pratylenchus vulnus, effect on Thompson Seedless grapes. 27:186-9.

Pre-bloom shoot treatment effects. 27:62-4.

Prolidase enzyme in hydrolysis. 27:12-14.

R

Radioimmunoassay analysis for ethylcarbamate in wine. 27:115-17.

Raisins. machine harvested, quality. abst. 27:92.

Rat behavior, effect of wine lactone on. 27:27-31.

Root, grape, a study laboratory for. 27:36-9.

S

Seed, grape. oil, fatty acid composition of. 27:88-90.
in pomace. 27:21-6.

Sensory evaluation. see Taste tests.

Shoot, grape vine. pre-bloom treatment effects. 27:62-4.
tip removal effect. abst. 27:91.

Soluble solids. irrigation depth effect on. 27:168-75.
in leafroll virus infected fruit. 27:118-23.
in Washington state grapes. 27:19.

Sterilization, cold. wine. use of DEDC and DMDC. 27:7-11.

Storage, long term and SO₂. review. 27:153.
decay control, Cyprus. 27:111-14.

Sucrose. in some Australian grapes. 27:125-9.

Sugar. accumulation in berries. abst. 27:150.
irrigation depth effect on in grapes. 27:168-75.
reducing, in winery waste. 27:21-6.
in some Australian grapes. 27:125-9.

Sulfur dioxide. in red wine, analysis methods. 27:
107-10.
use in care of export table grape storage and
transport. 27:74-9.

T

Table grapes. see Grapes.

Tartaric acid. see Acid, tartaric.

Taste testing. Davis score card and expert panel
evaluated. 27:136-44.

frozen stored grape juice. 27:85-7.

malo-lactic in South African red table wines.
27:181-5.

panel results and volatile profiles. abst. 27:151.

Thermovinification, Gasquet. a discussion of. 27:
130-3.

V

Vitis vinifera. see Grapes.

W

Washington state grapes. see Grapes.

Wastes, winery, solid. evaluation of in native and
hybrid grapes. 27:21-6.

Water. stress and vine response. 27:55-61.

Wine. acetic acid determination by enzymes. 27:
176-80.

aging and reduced barrel pressure formation.
27:80-1.

alkoxylactone volatiles and rat behavior. 27:
27-31.

amine extraction technique. abst. 27:94.

amino acids and peptides, Japanese wines and
musts. abst. 27:95.

aroma, and flavor. review. 27:151.

geranium, origin of in. abst. 27:93.

atlas of. review. 27:151.

benzaldehyde determination. abst. 27:93.

bibliography of work on. review. 27:194.

bouquet, late harvest. abst. 27:155.

bromide ion analysis in. abst. 27:195.

browning, white wines, an accelerated test for.
27:157-60.

ethylcarbamate, radioimmunoassay analysis.
27:115-17.

evaluation of grapes for wine quality. abst.
27:195.

extract metering. review. 27:94.

flavors, determination of β -Asarone in. abst.
27:195.

formation of methanol and ethyl methyl car-
bonate. 27:7-11.

game of. review. 27:152.

German, where grown. review. 27:92.

great makers of wine. review. 27:152.

guide to making of, America. abst. 27:151.

how to taste and buy. review. 27:193.

history of. review. 27:48.

inexpensive, guide to. review. 27:92.

joy of. review. 27:49.

lead, and cadmium in. abst. 27:154.

determination method, rapid. abst. 27:94.

malo-lactic fermentation in, South Africa.
27:181-5.

methyl anthranilate determination in. 27:134-5.

Moselle wines. review. 27:152.

and must, methanol in. 27:1-6.

in Napa county. review. 27:49.

origins of. review. 27:49.

practical guide to. review. 27:92.

production and quality evolution. review
27:154.

quality search, Australian. review. 27:95.

red, color changes with anthocyanins and pheno-
lics. 27:97-105.

free sulfur dioxide in. analytical methods
compared. 27:107-10.

sensory evaluation of, a basic study. review.
27:193.

science and technique of. A French basic work.
review. 27:93.

Spanish wines. review. 27:152.

table, methanol in. 27:1-6.

taste of. review. 27:152.

Thomas Jefferson's interest in. review. 27:
193.

trace element analysis. abst. 27:94,196.

Vermouths, determination of β -Asarone in. abst.
27:195.

volatile component studies. abst. 27:47.

volatile component of grape and wine identified.
abst. 27:94.

X

Xiphinema index, effect on Thompson Seedless
grapes. 27:186-9.

Y

Yeast, wine. effect of amino acids on. 27:47.

higher alcohols in. abst. 27:155.

inhibition of by tyrosinase. review. 27:153.

viable. in bottled wines, deduction. 27:82-3.

Z

Zinc. effect of nematodes in Thompson Seedless
grapes on. 27:186-9.

effect of *Pratylenchus vulnus* and *Xiphinema
index* on. 27:186-9.