

APPENDIX A

Agenda for Fruit and Nut Tree Workshop

Final Agenda

**WORKSHOP ON
EFFECTS OF AIR POLLUTANTS ON TREE FRUIT AND NUT CROPS**

Kearney Agricultural Center

November 16, 1988

Chairmen

Dr. Ted de Jong, UC Davis
Dr. Dave Olszyk, UC Riverside

The purpose of this workshop is two-fold: (1) to present recent research results on the effects of air pollutants on tree fruit and nut crops, and (2) to provide a forum for input from tree fruit and nut crop scientists on their concerns regarding air pollution effects.

- 09:00-09:15 Welcome, introductions, and statement of the goals of the workshop.
- 09:15-09:30 Remarks by state and federal agency staff on their concerns regarding pollutant effects on tree fruit and nut crops.
- Dr. Bill Retzlaff, physiology and growth responses of 12 species to ozone based on a recent Kearney study.
- 10:15-10:30 Break
- 10:30-11:30 Overview (continued)
- Growth studies with almonds, nectarines.
- Dr. Dave Olszyk, screenings for foliar injury from ozone using almond, peach, and nectarine cultivars; Dr. Pat McCool's studies on almonds, nectarines, and peaches.
- Dr. Bob Brewer's almond work and any other studies.
- 11:30-12:00 Formulation of most important research questions regarding tree fruit and nut crops, such as:
- Is there any field evidence for air pollution effects on fruit and nut crops?
 - What species and cultivars are of greatest concern?

- What plant responses are of greatest concern (i.e., growth, fruit yield, fruit quality, tree physiology, etc.?)
- How should we conduct tree fruit and nut crop studies (including types of tree material, type of exposure system, and experimental design)?

12:00-12:45 No host lunch.

12:45-13:30 Tour of air pollution experiments at Kearney Agricultural Center.

13:30-14:30 Comments by fruit and nut crop scientists.

14:30-15:30 Formulation of draft research plan for fruit and nut crop research.

15:30 Closing

APPENDIX B

Summary of Tree Exposure System Characteristics

Table B-1. Field Exposure Chambers for Measuring Effects of Air Pollutants on Whole-Plants

Site	Design	References
1. Boyce Thompson Institute for Plant Research, Yonkers, NY	Open-top clear plastic cylinders 2.4 m ht, 2.7 m dia.	Mandl, R. H., L. H. Weinstein, D. C. McCune, and M. Keveny (1973) A cylindrical open-top chamber for the exposure of plants to air pollutants in the field. <u>J. Environ. Qual.</u> 2:371.
2. U. S. Department of Agriculture, North Carolina State Raleigh, NC	Open-top clear plastic cylinders 2.4 m ht, 3.0 m dia.	Heagle, A. S., D. E. Body, and W. W. Heck (1973) An open-top field chamber to assess the impact of air pollution on plants. <u>J. Environ. Qual.</u> 2:365.
3. University of California Riverside, CA	Rigid fiber glass open-top cylinders. 2.4 m ht, 3.0 m dia.	Thompson, C. R., G. Kats, and J. W. Cameron (1976) Effects of ambient photochemical air pollutants on growth, yield, and ear characteristics of two sweet corn hybrids. <u>J. Environ. Qual.</u> 5:410-412. Kats, G., C. R. Thompson, and W. C. Kuby (1976) Improved ventilation of open-top greenhouses. <u>J. Air Pollut. Control Assoc.</u> 26:1089-1090.
4. University of California Experiment Station Parlier, CA	Rectangular based cones 3.8 m ² at base, 2.4 m high, 3.1 m dia. at circular top	Brewer, R. F. (1978) The effects of present and potential air pollution on important San Joaquin Valley crops: sugar beets. Final Report, California Air Resources Board.
5. Rothamsted Experiment Station Harpenden, England	Open-top 2.4 m dia., 2.3 m high hexagonal Novolux rigid plastic	Buckenham, A. H., M. A. Parry, C. P. Whittingham, and A. T. Young (1981) An improved open-topped chamber for pollution on crop growth. <u>Environ. Pollut. Series B</u> 2:275-282.
6. University of California Experiment Station Parlier, CA	Open-top rectangular 3.1 m wide x 7.4 m long x 3.1 m high clear vinyl plastic	Brewer, R. F. (1983) Effect of air pollutants on Thompson seedless grapes. Final Report, California Air Resources Board Project A1-132-133, Sacramento, CA.

Table B-1 (continued) - 2

Site	Design	References
7. Imperial College, Silwood Park Ascot, England	Closed-top 1.5 x 1.5 m base, 1.0 m high gabled Perspex	Farrar, J. F., J. Relton, and A. J. Rutter (1977) Sulfur dioxide and the growth of <u>Pinus sylvestris</u> . <u>J. Appl. Ecol.</u> 14:861-875.
8. Landesanstalt fur Immissionschutz Essen, W. Germany	Closed 0.6 x 0.9 x 0.9 m M. plexiglass	Van Haut, H. (1972) Test methods to prove phytocidal pollutants. <u>Environ. Pollut.</u> 3:123-132.
9. Swedish Environmental Research Institute Gothenburg, Sweden	Open top 3.0 m dia. cylinder, 2.5 m high with frustrum, 1.25 m dia. at top	Skarby, L. (1986) Personal communication.
10. Technical University of Berlin Berlin, West Germany	2.5 m dia. octagon, 2.4 m high clear Teflon, no frustrum	Seeliger, T., A. Wichmann, J. Schweckendiek, and R. Bornkamm (1985) Personal communication.
11. University of British Columbia Vancouver, BC	Open-top clear PVC cone 4.9 m high, 1.2 m at top, 2.4 m base	Runeckles, V. C., L. M. Staley, and N. R. Bulley (1978) A downdraft chamber for studying the effects of air pollutants on plants. <u>Can. J. Bot.</u> 56:768-778.
12. Central Electricity Research Laboratories Leatherhead, England	Closed dome 4.0 m dia. covered with glass	Roberts, T. M. (1981) Effects of stack emissions on agriculture and forestry. CEEGB Research July:11-24.
13. University of Liverpool Liverpool, England	Closed cylinder, 1.3 m dia., 0.7 m high made of fiberglass	Roberts, T. M., R. M. Bell, D. C. Horsman, and K. E. Colvill (1983) The use of open-top chambers to study the effects of air pollutants, in particular sulphur dioxide, on the growth of ryegrass <u>Lolium perenne</u> L. Part I. Characteristics of modified open-top chambers used for both air-filtration and SO ₂ -fumigation experiments. <u>Environ. Pollut.</u> 3:9-33.

Table B-1 (continued) - 3

Site	Design	References
14. University of California Riverside, CA	Semi-closed-top cylinder 2.0 m dia., 2.5 m high with 4 ea, 0.68 m holes in top covered with clear PVC	Olszyk, D. M., A. Bytnerowicz, C. A. Fox, G. Kats, P. J. Dawson, and J. Wolf (1987) Injury and physiological responses of <u>Larrea tridentata</u> (DC) Coville exposed <u>in situ</u> to sulphur dioxide. <u>Environ. Pollut.</u> 48:197-211.
15. University of California Riverside, CA	Closed-top octagon, 2.5 m dia., top slopes from 2.4 to 2.1 m covered with clear Teflon	Musselman, R. C., P. M. McCool, R. J. Oshima, and R. R. Teso (1986) Field chambers for assessing crop loss from air pollutants. <u>J. Environ. Qual.</u> 15:152-157.
16. University of Lancaster Lancaster, England	Hemispherical closed dome 4.6 m dia., 2.0 m high covered with glass	Lucas, P. (1985) Hemispherical domes for fumigation of plants. University of Lancaster, United Kingdom. Personal communication.
17. Boyce Thompson Institute Cornell University Ithaca, NY	A. Cylinder 4.6 m dia., 3.7 m high with frustrum reducing top area 50% covered with PVC B. Rectangular chamber 7.3 m long, 2.7 m wide, 3.7 m high with frustrum	Laurence, J. A. and R. J. Kohut (1984) Lake Erie generating station grape study. Phase I and II. Contract #GF127.1T123083. Niagara Mohawk Power Co., New York State Public Service Commission, Albany, NY. Mandl, R. H., J. A. Laurence, and R. J. Kohut (1989) Development and testing of open-top chambers for exposing large, perennial plants to air pollutants. <u>J. Environ. Qual.</u> , in press.
18. University of California Riverside, CA	Plastic truncated domes 4.27 m dia., 3.94 m high 50% open top covered with clear rigid plastic	Kats, G., D. M. Olszyk, and C. R. Thompson (1985) Open-top experimental chambers for trees. <u>J. Air Pollut. Contr. Assoc.</u> 12:1298-1301.

Table B-1 (continued) - 4

Site	Design	References
19. U. S. Environmental Protection Agency Corvallis, OR	Cylindrical 3.0 m dia., 2.4 m high with frustrum having 2.0 m dia.	Hogsett, W. E., D. T. Tingey, and S. R. Holman (1985) A programmable exposure control system for determination of the effects of pollution exposure regimes on plant growth. <u>Atmos. Environ.</u> 19:1135-1145.
20. Institute for Terrestrial Ecology Glasgow, Scotland	Cylindrical 1.6 m dia., 1.24 m high with frustrum, 0.9 m dia. covered with fiberglass	Fowler, D. (1986) Specifications of open-top chambers used in barley studies at the Institute of Terrestrial Ecology. Personal communication. Also in Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
21. Imperial College Silwood Park Ascot, England	Cylindrical open top, 1.5 m dia., 1.6 m high, covered with clear plastic sheet	Ashmore, M. R., J. N. Bell, A. Mimmack (1985) Personal communication. Also in Proceedings of European Open-Top Chamber Workshop, Commission of European Communities, Freiberg, Federal Republic of Germany.
22. Institut fur Hohenkiran Stuttgart, W. Germany	Open-top cylinder, 3 m dia., 3 m high with frustrum covered with PVC film	Seufert, Von G. and U. Arndt (1985) Open-top kammern als teil einer konzepts aur okosystemaren unter suchung der neuartigen woldschaden. <u>Allg. Forstz.</u> 40:13-20.
23. Welzheimer Wold Aufbau, W. Germany	Open-top cylinder, 6.0 m high, 2.5 m dia., no information on covering	Seufert, Von G. and U. Arndt (1985) Open-top kammern als teil einer konzepts aur okosystemaren unter suchung der neuartigen woldschaden. <u>Allg. Forstz.</u> 40:13-20.
24. Austrian Research Center Siebersdorf Vienna, Austria	Open-top cylinders, 3 m dia., 2.4 m high with frustrum to 1.5 m dia.	Soja, G. (1986) Personal communication.

Table B-1 (continued) - 5

Site	Design	References
25. Imperial College Silwood Park Ascot, England	Semi open-top cylinder, 3.3 m dia., 2.3 m high with 3.45 m curved roof, 0.25 above sides	Ashmore, M. R., J. N. B. Bell, and C. Dalpra (1980) Visible injury to crop species by ozone in the United Kingdom. <u>Environ. Pollut.</u> (Series A) 21:209-215.
26. Institute fur Produklions und Okotoxicologie Braunschweig, W. Germany	Semi open-top cylinder, 3.5 m dia., 3.5 m high with frustrum and rain cap	Jager, H.-J. (1986) Personal communication.
27. Landestalt fur Immissionschutz des Landes Nordrhein Westfalen, Essen, W. Germany	Semi open cylinder, 3.0 m dia., 2.4 m high with 0.5 m frustrum and 2.7 m dia. rain cap	Krause, G. (1986) Personal communication. Pfeffer, H.-U. (1982) Das Telemetrische Echtzeit-Mehrkomponenten-Erfassungs-System TEMES zur Immissionsuberwachung in Nordrhein- Westfalen, LIS-Berichte, 19, Landesanstalt fur Immissionsschutz des Landes Nordrhein- Westfalen, Essen, Federal Republic of Germany.
28. Southeastern Forest Experiment Station Asheville, NC	Lean-to type closed greenhouse with volume of 8.4 m ³ , 2.0 m high	Berry, C. R. (1970) A plant fumigation chamber suitable for forestry studies. <u>Phytopathology</u> 60:1613-1615.
29. U. S. Steel Co. Provo, UT	Rectangular closed chambers 11.0 m long, 2.8 m wide, 2.5 m high, covered with clear plastic	Hill, A. C., L. G. Transtrum, M. R. Pack, and A. Holloman, Jr. (1959) Facilities and techniques for maintaining a controlled fluoride environment in vegetation studies. <u>J. Air Pollut. Control Assoc.</u> 9:22-27.
30. University of California Upland, CA	Cabinet type closed-top square 3.7 m, 2.5 m sides with 1.85 m dia cylindrical top glazed with polyvinyl fluoride film	Thompson, C. R., O. C. Taylor, and B. L. Richards (1970) Photochemical smog on lemons and navel oranges. <u>Calif. Agr.</u> 10-11.

Table B-1 (continued) - 6

Site	Design	References
31. U. S. Water Conservation Lab Phoenix, AZ	3 x 3 m square, 2 m high open-top glazed with polyethylene	Nakayama, F. S. and B. A. Kimball (1988) Soil CO ₂ distribution and flux within open-top chambers. <u>Agron. Journal</u> 80:394-398.
32. Department of Plant Pathology, University of Minnesota St. Paul, MN	Circular 3.0 m dia., 2.44 m high with frustrum to 3.2 m glazed with clear poly vinyl film	Nystrom, S. D., R. C. Hendrickson, G. C. Pratt, and S. V. Krupa (1982) A computerized open-top field chamber for exposing plants to air pollutants. <u>Agric. and Environ.</u> 7:213-221.
33. New York State Experiment Station Fredonia, NY	Permanently installed open-top cylinders 3.0 m dia. x 2.7 m high, glazed with clear polyethylene	Musselman, R. C., W. J. Kender, and D. E. Crowe (1978) Determining air pollutant effects on the growth and productivity of "Concord" grapevines using open-top chambers. <u>J. Am. Hort. Soc.</u> 103: 645-648.
34. Institute für Hydromechanik University of Karlsruhe W. Germany	Open-top cylinder with shortened frustrum	Schmidt, F. and B. Ruck (1987) Flow visualization studies of aerodynamic characteristics of an open-top chamber. <u>Environ. Pollution</u> 48:223-233.
35. Institute für Landwirtschaft Braunschweig, W. Germany	Open-top cylinders 3.15 m dia. x 2.4 m high, glazed with polyethylene	Weigel, H. J., G. Andaros, and H. J. Jäger (1987) An open-top chamber study with filtered and non-filtered air to evaluate the effects of air pollutants on crops. <u>Environ. Pollut.</u> 47:231-244.
36. U. S. Department of Agriculture North Carolina State University Raleigh, NC	Open top with 4.6 m dia. x 3.6 m high with added frustrum	Heagle, A. S., R. B. Philbeck, R. E. Ferrell, and W. W. Heck (1989) Design and performance of a large field exposure chamber to measure effects of air quality on plants. <u>J. Environ. Qual.</u> , in press.

Table B-1 (continued) - 7

Site	Design	References
37. Boyce Thompson Institute for Plant Research Cornell University Ithaca, NY	6.2 m dia. cylinder x 11.0 m high having frustrum Similar to NCLAN	Mandle et al. (1988). Personal Communication.
38. Forstliche Versuch und Forschungsanstalt Baden- Wuerttemberg, Freiburg, Federal Republic of Germany	(1) Octagon, wood framed 6.75 m ht, 5.65 m dia. with frustrum 3.90 m dia., covered with Teflon. (2) Hexagon wood framed 4.85 m ht, 3.2 m dia. with frustrum 2.0 m dia.	Kenk, G. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
39. Center Departmental D'etude et du Recherches sur L'environement Lagar Mourenx, France	Cylindrical, 2.8 m ht, 3.0 m dia. with frustrum 2.0 m dia. covered with polyethylene	Bonte, J. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
40. Fraunhofen Institute fur Umweltchemie und Okotoxikologie, Schmal- lenberg Grafshaft, Federal Republic of Germany	Cylindrical, 1.8 m ht, 1.5 m dia. with frustrum 1.15 m dia. covered with rigid Leran	Otto, F. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
41. Institute for Chemical Research Museumlaan Tervuren, Belgium	Galvanized steel frame, octagon 2.8 m ht, 3.0 m dia. with frustrum 2.5 m dia. covered with rigid Lexan	De Temmerman, L. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
42. Institute fur Angewante Bolanik Universitat Essen, Federal Republic of Germany	Aluminum framed cylinder 2.9 m ht, 3.0 m dia. with frustrum 2.3 m dia. with dome-shaped rain shield covered with PVC	Guderian, R. (1986) Proceedings of European Open- Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.

Table B-1 (continued) - 8

Site	Design	References
43. Centre de Recherche Forestiere, Champenoux, France	Cylindrical 2.50 m ht, 3.0 m dia. covered with polyethylene	Berteigne, M. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
44. Faculte des Sciences Agronomiques de L'Etat Gembloux, Belgium	Anodized aluminum framed cylinder 2.0 m ht, 3 m dia. with frustrum 2.2 m covered with UV-resistant PVC film	Impens, R. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
45. Institute fur Landeskultun und Pflanzenokologie Stuttgart, Federal Republic of Germany	(1) Cylindrical chamber 3.0 m ht, 3.0 m dia. with frustrum 2.4 m dia. covered with UV-resistant PVD film	Arndt, U. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
46. Institute fur Landeskultun und Pflanzenokologie Edelmanshof, Federal Republic of Germany	(2) Open cylinder 6.0 m ht, 2.5 m dia. glazed with PVC film	Arndt, U. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
47. Institute of Plant Ecology, University of Copenhagen, Copenhagen, Denmark	18-sided polygon, 2.5 m ht, 3.5 m dia. glazed with flat sheet glass with baffle to be installed	Johnsen, I. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.
48. Swiss Federal Research Station for Agricultural Chemistry and Environmental Hygiene	Cylinder 1.8 m ht, 1.5 m dia. with frustrum 1.2 m, glazed with PVC film	Fuhrer, J. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.

Table B-1 (continued) - 9

Site	Design	References
<p>49. Black Forest, 30 km south of Freiberg on NE slope of Munstental. Operated by Forest Research Institute of Baden-Wurttemberg, FRG</p>	<p>(1) Octagon 5.65 m ht, 6.75 m dia. with frustrum 3.90 m dia., covered with Teflon film (2) Hexagon 3.32 m ht, 4.85 m dia. with frustrum 2.0 m dia., covered with Teflon</p>	<p>Kenk, G. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, Federal Republic of Germany.</p>
<p>50. University of Hohenheim, Stuttgart, Federal Republic of Germany</p>	<p>(1) Cylinder 2.4 m ht, 2.4 m dia. with frustrum and inner lip 1.60 m dia. covered with PVD film. (2) U-shaped "wind tunnel" with dark and light sections, 0.43 m ht and 0.93 m width</p>	<p>(1) Arndt, U. (1986) Proceedings of European Open-Top Chamber Workshop, Commission of the European Communities, Freiberg, FRG. (2) Buckenham, A. M., M. A. Parry, C. Whittingham and A. T. Young (1981) An improved open-topped chamber for pollution studies on crop growth. <u>Environ. Pollut.</u> 2:475-482.</p>
<p>51. University of Nottingham, Nottingham, U.K.</p>	<p>"Accordion-like" collapsible chamber approximately 3 m wide x 4 m high for use over apple trees during pollutant episodes.</p>	<p>Jeremy Colls, personal communication.</p>

Table B-2. Open-Air Systems

Site	Design	References
1. Institute of Phytopathological Research Wageningen, Netherlands	Gun-like device which directs air to a branch or shrub	Spierings, F. (1967) Method for determining the susceptibility of trees to air pollution by artificial fumigation. <u>Atmos. Environ.</u> 1:205-210.
2. INRA Station d'Etude de la Pollution Atmospherique INRA, France	Vertical plastic tube emitters, 2.75 m high on a grid 4.5 m apart, across plot 32 x 64 m	de Cormis, L., J. Bonte, and A. Tisne (1975) Technique experimentale permanent l'etude de l'incidence sur la vegetation d'une pollution par le dioxyde de soufre appliquee en permanence et a dose subnecotique. <u>Pollut. Atmos.</u> 66:103-107.
3. U.S. EPA Colstrip, Montana	Aluminum pipe emitters 0.75 m above ground, 3 tubes 85 m long, 2 tubes 75 m long with 14 m pipes perpendicular. Holes every 3.1 m along pipe	Lee, J. J. and R. A. Lewis (1976) Field experimental component. pp. 95-101, in R. A. Lewis and A. S. Lefohn (eds.) The Bioenvironmental Impact of a Coal Fired Power Plant. First Interim Report, Colstrip, MT, December 1974. U. S. Environmental Protection Agency, Corvallis, OR, EPA-600/3-76-002.
4. University of California Livermore, CA	Three parallel ducts, 7.5 m long, 0.15 m dia. and 1.0 m between ducts. Holes increase in size as air moves from blower	Shinn, J. H., B. R. Clegg, and M. L. Stuart (1977) A linear-gradient chamber for exposing field plants to controlled levels of air pollutants. UCRL Reprint No. 80411. Lawrence Livermore Laboratory, University of California, Livermore, CA.
5. Tennessee Valley Authority Muscle Shoals, AL	Four parallel ducts 7.6 m long, 0.33 m dia. perforated with holes 0.31 m apart installed between rows of soybeans	Jones, H. C., N. L. Lacasse, W. S. Liggett, and F. Weatherford (1977) Experimental air exclusion system for field studies of SO ₂ effects on crop productivity. U. S. Environmental Protection Agency, Washington, DC, EPA-600/7-77-122.
6. Anaktwuk Pass, Alaska, by Arizona State University Tempe, AZ	Aluminum emitter pipes, 5 cm above lichen mat, plots 1.0 x 5.0 m with holes every 0.1 m	Moser, T. J., T. H. Nash, and W. D. Clark (1980) Effects of long-term field sulfur dioxide fumigation on Arctic caribou forage lichens. <u>Can. J. Bot.</u> 58:2235-2240.

Table B-2 (continued) - 2

Site	Design	References
7. University of British Columbia Vancouver, BC	PVC pipe 1.0 m above soil, two outer 12 m pipes and one 10 m inside with 3.0 m cross pipes at 1.0 m intervals	Runeckles, V. C., K. T. Palmer, and H. Trabelsi (1981) Effects of field exposures to SO ₂ on Douglas fir, <u>Agropyron spicatum</u> , and <u>Lolium perenne</u> . <u>Sil. Fen.</u> 15:505-515.
8. Argonne National Laboratory Argonne, IL	Five parallel aluminum pipes 29 m long, 6.7 m apart, and 0.3 m above soybean canopy	Miller, J. E., D. G. Sprugel, H. J. Smith, and P. B. Xerikos (1980) Open-air fumigation system for investigation of sulfur dioxide effects on crops. <u>Phytopathology</u> 70:1124-1128.
9. University of Nottingham Nottingham, England	Square computer controlled emitter, PVC pipes 20 m long, 0.2 m above plant canopy, each pipe independently controlled depending upon wind direction	Greenwood, P., A. Greenhalgh, C. Baker, and M. Unsworth (1982) A computer controlled system for exposing field crops to gaseous air pollutants. <u>Atmos. Environ.</u> 16:2261-2266.
10. Boyce Thompson Institute Ithaca, NY	Three parallel PVC ducts 13 m or 15 m long with holes on both sides of center duct. Ducts 0.15 m dia.	Laurence, J. A., D. C. MacLean, R. H. Mandl, R. E. Schneider, and K. W. Hansen (1982) Field tests of a linear gradient system for exposure of row crops to SO ₂ and HF. <u>Water, Air, Soil Pollut.</u> 17:399-407.
11. National Park Service Denver, CO	Three parallel 15 m PVC pipes, 4 m apart, plume emitted from ground level to 10 m high	Northrop Services, Inc. (1983) Work Assignment 5. Air Quality Related Values. Air Pollution Fumigation Studies #1. PX-0001-2-0725. Final Project Report SP-4162-813-08. For National Park Service, Air and Water Quality Division, Under Contract CX-0001-1-0112. J. Bennett, personal communication.

Table B-2 (continued) - 3

Site	Design	References
12. Research Institute for Plant Protection Wageningen, The Netherlands	Circular array of pipes, 30 m diameter divided into 16 sectors, 2 dispensing pipes 1.0 m above each other dispenses diluted SO ₂ . Feed back control depends on wind speed.	Kats, G. (1988) Personal visit and communication.
13. University of California Dagget, CA	Two parallel pipes 7.6 m long, the lower 0.45 m from soil the above 0.70 m, positioned perpendicular to prevailing wind. Computer controlled if wind direction varies 10° from west	Thompson, C. R., D. M. Olszyk, G. Kats, A. Bytnerowicz, P. J. Dawson, and J. W. Wolf (1984) Effects of O ₃ or SO ₂ on annual plants of the Mojave Desert. <u>J. Air Pollut. Control Assoc.</u> 34:1017-1022.
14. Central Electricity Research Laboratories Little Hampton, England	Outer circular PVC emitters 27 m dia., 0.5 m height, inner tubes at 3 m intervals, 1.5 m height (21, 15, and 9 m dia.)	McLeod, A. R., J. E. Fackrell, and K. Alexander (1985) Open-air fumigation of field crops: criteria and design for a new experimental system. <u>Atmos. Environ.</u> 19: 1639-1649.
15. University of California Riverside, CA	Four parallel clear PVC ducts 0.32 m dia, 0.41 m apart divided into 3 sections of 3 m each (total 9 m) with increasing dia. holes provide 3 levels of fumigant.	Thompson, C. R. and D. M. Olszyk (1985) A field air-exclusion system for measuring the effects of air pollutants on crops. EPRI EA-4203. Final Report, Project 1908-3. Electric Power Research Institute, Palo Alto, CA. Olszyk, D. M., G. Kats, P. J. Dawson, A. Bytnerowicz, J. Wolf, and C. R. Thompson (1986) Characteristics of air exclusion system chambers for field vs. air pollution studies. <u>J. Env. Qual.</u> 15:326-330.

Table B-2 (continued) - 4

Site	Design	References
16. Ontario Ministry of the Environment Brampton, Ontario	Two parallel clear PVC pipes, 0.30 m dia., 15 m long with perforations	Kuja, A., R. Jones, and E. Enyedi (1986) A mobile rain exclusion canopy and gaseous pollutant reduction system to determine dose-response relationships between simulated acid precipitation and yield of field grown crops. <u>Water, Air, Soil Pollut.</u> 31:307-315.
17. Liphook Forest Sussex Hampshire Border, England	30 m dia. circle plots surrounded by 50 m dia. circle of 4 m high posts 2.5 m apart. Gas released at 2 heights on each of 4 quadrants, each computer controlled	Kats, G. (1988) Personal visit and communication.
18. Montardon, Morlaas, France Prefecture des Pyrenees	Vertical pipes hanging from horizontal supports between rows which dispensed HF-air mixture	Cantrell, J. (1980) Influence de la pollution par les composes fluores sur la vine. In Rapport D'activite ed. by J. Bonte, 24-29, Montardon, France.

Table B-3. Branch Chambers

Site	Design	References
1. Upland, California Experiment Site University of California Riverside, CA	Six citrus leaves were enclosed in plexiglass boxes and CO ₂ uptake measured	Thompson, C. R., O. C. Taylor, M. D. Thomas, and J. O. Ivie (1967) Effects of air pollutants on apparent photosynthesis and water use of citrus trees. <u>Environ. Sci. Technol.</u> 1:644-650.
2. University of California Riverside, CA	A. Branches of mature citrus trees were enclosed in plexiglass boxes supplied with test atmospheres and photosynthesis measured B. Young citrus trees were enclosed in 2 x 2 x 2 m boxes covered with polyvinyl fluoride	Thompson, C. R. and G. Kats (1975) Effects of ambient concentrations of peroxyacetyl nitrate on navel orange trees. <u>Environ. Sci. Technol.</u> 9:35-38.
3. Lawrence Livermore Laboratory Livermore, CA	Leaf cuvette with temperature and humidity control of incoming air plus sensors to record photosynthesis and transpiration	Coyne, P. I. and G. E. Bingham (1981) Comparative ozone dose response of gas exchange in ponderosa pine stand exposed to long term fumigations. <u>J. Air. Pollut. Control Assoc.</u> 31:38-41.
4. Lawrence Livermore Laboratory, Lawrence, California	Branch exposure chamber 1.2 m long x 0.7 m wide glazed with 5 m Teflon film, air exchange 5.5 x min.	Houpis, J. L. J., K. R. Suranso, S. Cowles, M. P. Costello, S. Benes, and P. D. Anderson. (1988) Ann. Report: Comparison of the responses of mature branches and seedlings of Pinus Ponderosa to atmospheric pollution, UCRL-21001-88-6.
5. Ashland Wildlife Area Ashland, MO	Thermoelectric cuvette which encloses 3-5 leaves of Quercus alba	Dougherty, P. M. et al. (1979) Net photosynthesis and early growth trends of a dominant White Oak (Quercus alba). <u>Plant Physiol.</u> 64:930-935.

Table B-3 (continued) - 2

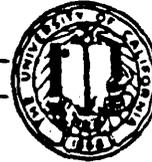
Site	Design	References
6. Whiteface Mountains, NY, 1170 m elevation	One-half flattened ovoid branch chamber which enclosed 1.0 m of branch of Red Spruce (<i>Picea rubens</i>). Cover was PVC manufactured by DuPont	Vann, D. R. and A. H. Johnson (1988) Personal communication.
7. National Center for Atmospheric Research Boulder, CO	Cylindrical, Teflon-covered branch chamber enclosing two separate branches of conifers	Lazarus, A. and C. Ennis (1988) Personal communication.
8. New York Botanical Garden Millbrook, NY	Inflated clear Teflon bag installed around branches of either <i>Pinus strobus</i> or <i>Acer saccharum</i>	Hubbell, J. G. and G. M. Lovett (1988) Personal communication.
9. Oak Ridge National Lab Oak Ridge, TN	Ten 0.3 mm tubes mounted at an individual leaf surface integrate the gas exchange	McLaughlin, S. B. (1988) Personal communication.
10. Institut für Landes- Kultur und Pflanzen- Ökologie University of Hohenheim, Stuttgart, Federal Republic of Germany. Also, "Edelmannshof" Swabian- Frankonian Forest Station, Federal Republic of Germany	Mini-cuvette, 200 ml air space, humidity and temper- ature control with light source and measurement of CO ₂ uptake and transpira- tion	Arndt, U. (1986) Proceedings of a workshop by the European Communities on Open-Top Chambers.

APPENDIX C

Copies of Letters Sent to Survey Cooperators

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTACRUZ

STATEWIDE AIR POLLUTION RESEARCH CENTER-6

RIVERSIDE, CALIFORNIA 92521-0312

February 24, 1989

Mr. Chuck Nichols
Nichols Farms
13762 1st Avenue
Hanford, CA 93230

Dear Mr. Nichols:

Thank you again for allowing us to look at some of your fields last summer as part of our survey of possible ozone injury symptoms to SJ2 cotton. The survey went well and indicated a "snap shot" of relative leaf injury due to a wide variety of causes during September, 1988. Most of the leaf injury was probably related to insects (especially caterpillars), water stress, nutrient deficiencies, and other causes not related to air pollutants. However, we were not able to differentiate among the relative amounts of injury due to the different causes at the sites.

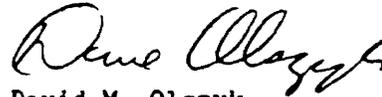
The only sites where injury symptoms definitely characteristic for ozone (the main pollutant in smog) were found were at sites 3, 36 and 40 in Kern County, and possibly site 38 or 42 in Tulare County. These areas near Bakersfield and southeast of Fresno were where injury would be most likely to occur due to known relatively high concentrations of ozone in the area. However, this is not to say that ozone effects were not occurring in other areas as it was not possible to identify any ozone injury symptoms when other factors caused considerable damage, such as by insects. In addition, for many crops the amount of any yield reduction due to ozone is very hard to determine from visible injury symptoms. Nonetheless, the study last year gave us useful information as to where and how to look for ozone injury to crops in the San Joaquin Valley.

I am enclosing a table and a figure indicating the average percentage leaf injury from all causes at the 48 sites that were part of this survey. Your fields were at sites 5 and 6 as shown in Table 1 and Figure 1. In Figure 1 sites 1-35 were commercial fields, sites 36-39 were part of a cotton yield study conducted in 1988 by the University of California, Riverside, and sites 40-48 were part of the Acala Cotton Board's 1988 studies conducted by Dr. Dick Bassett at the U.S.D.A. Cotton Research Station at Shafter. As Figure 1 indicates, the most severe injury was in a belt across Fresno, Tulare, and Kings counties, especially where the caterpillar infestations were heaviest.

Mr. Chuck Nichols
February 24, 1989
Page 2

If you have any questions regarding this survey please do not hesitate to call me at 714-787-5131 (collect). I appreciate your assistance last year and hope you have a good growing season this year.

Sincerely,



David M. Olszyk
Assistant Research
Plant Physiologist

DMO:cjl
COR:surveylet2

Enclosures

Table 1. Leaf Injury to Cultivar SJ2 Cotton at Different Sites Observed for the San Joaquin Valley Survey in 1988^a

Site Number	County	Avg. Leaf Injury (%)	Site Number	County	Avg. Leaf Injury (%)
1	Kern	6	25	Fresno	14
2	Kern	34	26	Fresno	32
3	Kern	26	27	Fresno	51
4	Kern	33	28	Madera	12
5	Tulare	25	29	Madera	6
6	Tulare	18	30	Madera	8
7	Tulare	18	31	Madera	2
8	Tulare	22	32	Madera	4
9	Tulare	18	33	Madera	8
10	Tulare	28	34	Merced	8
11	Kings	35	35	Merced	8
12	Tulare	70	36	Kern	52
13	Kings	35	37	Kings	63
14	Kings	26	38	Tulare	59
15	Kings	14	39	Fresno	37
16	Fresno	44	40	Kern	69
17	Fresno	57	41	Kern	18
18	Fresno	54	42	Tulare	67
19	Fresno	25	43	Kings	35
20	Fresno	59	44	Kings	59
21	Fresno	59	45	Fresno	39
22	Fresno	19	46	Merced	49
23	Fresno	17	47	Madera	14
24	Fresno	31	48	Fresno	No Data

^aLeaf injury is due to all causes including insects, water stress, etc., and not just air pollution. Values are average percentage leaf injury based on visible injury rating for upper and lower leaves from four areas in each field.

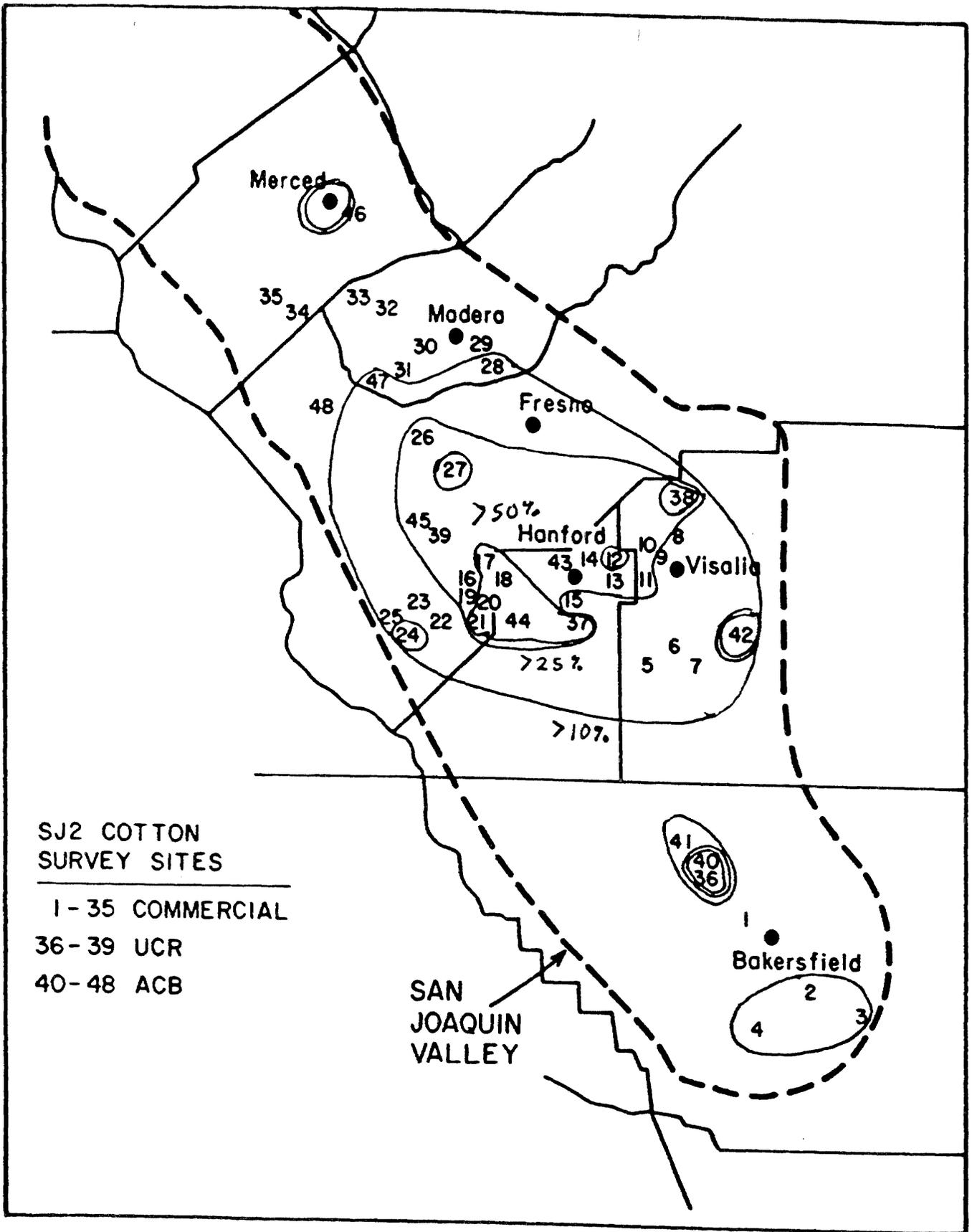
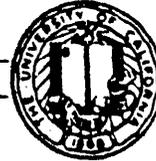


Figure 1. Sites evaluated as part of the San Joaquin Valley cotton survey in 1988. The isobars indicate areas where leaf injury was >10%, >25%, and >50%.

UNIVERSITY OF CALIFORNIA, RIVERSIDE

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SANTA BARBARA • SANTACRUZ

STATEWIDE AIR POLLUTION RESEARCH CENTER-6

RIVERSIDE, CALIFORNIA 92521-0312

February 24, 1989

Mr. Bill Weir
Merced County Farm Advisor's Office
2145 W. Wardrobe Ave.
Merced, CA 95340

Dear Bill:

Thank you again for your assistance in providing the names and contacts with growers for our study last summer on ozone injury symptoms to SJ2 cotton. The survey went well and indicated a "snap shot" of relative leaf injury due to a wide variety of causes during September, 1988. Most of the leaf injury was related to insects (especially caterpillars), water stress, nutrient deficiencies, and other causes not related to air pollutants. However, we were not able to differentiate among the relative amounts of injury due to the different causes at the sites. I enjoyed meeting many of the growers and think that public awareness of air pollution was a beneficial outgrowth of this study.

The only sites where injury symptoms definitely characteristic for ozone (the main pollutant in smog) were found were at sites 3, 36 and 40 in Kern County, and possibly site 38 or 42 in Tulare County. These areas near Bakersfield and southeast of Fresno were where injury would be most likely to occur due to known relatively high concentrations of ozone in the area. However, this is not to say that ozone effects were not occurring in other areas as it was not possible to identify any ozone injury symptoms when other factors caused considerable damage, such as by insects. In addition, for many crops the amount of any yield reduction due to ozone is very hard to determine from visible injury symptoms. Nonetheless, the study last year gave us useful information as to where and how to look for ozone injury to crops in the San Joaquin Valley.

I am enclosing a table and a figure indicating the average percentage leaf injury from all causes at the 48 sites that were part of this survey. The fields in your county were sites 34, 35, and 46 as shown in Table 1 and Figure 1. In Figure 1 sites 1-35 were commercial fields, sites 36-39 were part of a cotton yield study conducted in 1988 by the University of California, Riverside, and sites 40-48 were part of the Acala Cotton Board's 1988 studies conducted by Dr. Dick Bassett at the U.S.D.A. Cotton Research Station at Shafter. As Figure 1 indicates, the most severe injury was in a belt across Fresno, Tulare, and Kings counties, especially where the caterpillar infestations were heaviest.

Mr. Bill Weir
February 24, 1989
Page 2

If you have any questions regarding this survey please do not hesitate to call me at 714-787-5131. I appreciate your assistance last year and may be asking you for help again this year. In 1989 our ambitions are a bit larger; we hope to look for ozone injury symptoms on four or five crops in different areas of the valley. The crops would likely include alfalfa, almonds, beans, onions, or tomatoes. If you are also working with one of these crops I will likely be contacting you in June or July for assistance.

Thank you again for all your help.

Sincerely,



David M. Olszyk
Assistant Research
Plant Physiologist

DMO:cjl
COR:surveylet

Enclosures

name,address,salutation,sites,page2name

Mr. Bill Weir
Merced County Farm Advisor's Office
2145 W. Wardrobe Ave.
Merced, CA 95340

Bill

34, 35, and 46

Mr. Ron Vargas
Madera County Farm Advisor's Office
328 Madera Avenue
Madera, CA 93637

Ron

28-33, and 47

Mr. Lowell Zielinski
Fresno County
Cotton Farm Advisor
1720 S. Maple Avenue
Fresno, CA 93702

Lowell

16-27, 39 and 45

Mr. Bruce Roberts
County Farm Advisor's Office
310 Campus Drive
Hanford, CA 93230

Bruce

11-15, 37, 43 and 44

Ms. Stephanie Johnson
County Farm Advisor's Office
Agricultural Building
Visalia, CA 93291

Stephanie

5-10, 12, 38 and 42

Mr. Kater Hake
Kern County Farm Advisor's Office
P.O. Box 2509
Bakersfield, CA 93303-2509

Kater

1-4, 36, 40 and 41

name,address,salutation,sites
Mr. Bill & Mrs. Rhonda Crivelli
6902 W. Carmelia
Dos Palos, CA 93620
Mr. and Mrs. Crivelli
site 35
Mr. Mike Stearns
San Juan Ranch
8021 W. Hutchins Rd.
Dos Palos, CA 93620
Mr. Stearns
site 34
Mr. Richard Maddalena
10616 Avenue 20 1/2
Chowchilla, CA 93610
Mr. Maddalena
site 32
Mr. Otha Hooper
23199 Road 7
Chowchilla, CA 93610
Mr. Hooper
site 33
Mr. Steve Erickson
10696 Hwy 99
Madera, CA 93637
Mr. Erickson
sites 28 and 29
Mr. Joe Galleano
20512 Avenue 14
Madera, CA 93637
Mr. Galleano
sites 30 and 31
Mr. Jim Allen
Allen Ranch
P.O. Box 925
Coalinga, CA 93210
Mr. Allen
sites 22-25
Mr. Don Cameron
P.O. Box 68
Helm, CA 93627
Mr. Cameron
sites 26 and 27
Mr. Steve Stanford
Boswell Boston Ranch
Star Route 2
Box 100
LeMoore, CA 93425
Steve
sites 16-18
Mr. Paul Wintz
20600 19th Ave.
Stratford, CA 93266
Mr. Wintz

sites 19-21

Mr. Dave Costa

7575 18th Ave.

LeMoore, CA 93245

Mr. Costa

site 15

Mr. Cal Dooley

Dooley Farms

10271 1 1/2 Ave.

Hanford, CA 93230

Mr. Dooley

sites 8-14

Mr. Chuck Nichols

Nichols Farms

13762 1st Avenue

Hanford, CA 93230

Mr. Nichols

sites 5 and 6

APPENDIX D

D-1 Raw Data Sheets for 1986 Assessment - Equations #1-#4, PST

13-APR-89 17:05:22 BASE7=2.720 BASE12=2.500 BASET=542.0 BASEYR= 0 STANDARD1=99.000

CROP	COUNTY	TONS	>10	7HR	12HR	INDEX				TONS/INDEX				STD
						(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)	
ALFALFA HAY	ALAMEDA	7738	45.0	4.3	3.7	5.5	0.4	4.3	4.4	8186	7770	8088	8091	99.
ALFALFA HAY	AMADOR	1014	74.0	6.3	6.2	17.8	0.7	14.0	14.2	1233	1021	1179	1181	99.
ALFALFA HAY	BUTTE	17110	1.0	4.3	4.0	7.1	0.0	5.6	5.7	18426	17112	18133	18144	99.
ALFALFA HAY	COLUSA	44650	1.0	4.3	4.0	7.1	0.0	5.6	5.7	48085	44654	47318	47348	99.
ALFALFA HAY	CONTRA COSTA	21000	2.0	3.5	3.0	2.4	0.0	1.9	1.9	21512	21004	21402	21407	99.
ALFALFA HAY	FRESNO	0	313.0	6.3	5.8	15.5	2.9	12.3	12.4	0	0	0	0	99.
ALFALFA HAY	GLENN	123420	1.0	4.3	4.0	7.1	0.0	5.6	5.7	132914	123431	130796	130878	99.
ALFALFA HAY	HUMBOLDT	1050	0.0	3.2	3.1	2.7	0.0	2.1	2.1	1079	1050	1073	1073	99.
ALFALFA HAY	IMPERIAL	1698682	-3.0	3.8	3.5	4.9	0.0	3.9	3.9	1786295	1698682	1767108	1767854	99.
ALFALFA HAY	INYO	27000	4.0	5.4	5.5	14.5	0.0	11.4	11.5	31570	27010	30484	30525	99.
ALFALFA HAY	KERN	729800	203.5	6.5	5.9	16.4	1.9	13.0	13.1	873263	743814	838562	839872	99.
ALFALFA HAY	KINGS	0	214.0	5.2	4.9	11.6	2.0	9.1	9.2	0	0	0	0	99.
ALFALFA HAY	LAKE	4940	0.0	3.5	3.4	4.1	0.0	3.2	3.3	5151	4940	5105	5107	99.
ALFALFA HAY	LASSEN	132000	6.0	5.3	4.9	11.7	0.1	9.2	9.3	149434	132073	145391	145546	99.
ALFALFA HAY	LOS ANGELES	63250	776.0	6.3	6.3	18.0	7.2	14.2	14.3	77089	68146	73695	73822	99.
ALFALFA HAY	MADERA	193320	127.0	5.8	5.4	13.8	1.2	10.9	11.0	224294	195620	216975	217254	99.
ALFALFA HAY	MERCED	465000	127.0	5.8	5.4	13.8	1.2	10.9	11.0	539502	470532	521899	522569	99.
ALFALFA HAY	MODOC	92450	0.0	4.4	4.1	7.7	0.0	6.1	6.2	100178	92450	98446	98512	99.
ALFALFA HAY	MONO	43125	0.0	5.4	5.7	15.3	0.0	12.1	12.2	50906	43125	49043	49114	99.
ALFALFA HAY	MONTEREY	42200	0.0	3.1	2.8	1.5	0.0	1.2	1.2	42832	42200	42698	42703	99.
ALFALFA HAY	PLUMAS	18000	74.0	6.3	6.2	17.8	0.7	14.0	14.2	21888	18124	20936	20972	99.
ALFALFA HAY	RIVERSIDE	372916	951.5	6.2	5.7	15.2	8.8	12.0	12.1	439709	408939	423732	424338	99.
ALFALFA HAY	SACRAMENTO	41300	-2.0	4.0	3.5	4.9	0.0	3.8	3.9	43408	41300	42947	42965	99.
ALFALFA HAY	SAN BENITO	18000	0.0	4.3	3.9	6.5	0.0	5.1	5.2	19246	18000	18970	18981	99.
ALFALFA HAY	SAN BERNARDINO	195000	1201.3	6.8	6.0	16.6	11.1	13.1	13.3	233866	219402	224449	224804	99.
ALFALFA HAY	SAN JOAQUIN	365000	8.0	3.7	3.3	3.8	0.1	3.0	3.0	379268	365271	376172	376293	99.
ALFALFA HAY	SAN LUIS OBISP	43360	0.0	3.6	3.3	3.6	0.0	2.8	2.8	44966	43360	44618	44632	99.
ALFALFA HAY	SANTA BARBARA	39928	0.0	3.7	3.4	4.4	0.0	3.5	3.5	41757	39928	41358	41374	99.
ALFALFA HAY	SANTA CLARA	10140	0.0	4.3	3.9	6.5	0.0	5.1	5.2	10842	10140	10686	10692	99.
ALFALFA HAY	SHASTA	76500	1.5	4.7	4.3	8.7	0.0	6.8	6.9	83759	76511	82119	82182	99.
ALFALFA HAY	SIERRA	4400	74.0	6.3	6.2	17.8	0.7	14.0	14.2	5350	4430	5118	5126	99.
ALFALFA HAY	SISKIYOU	330809	0.0	4.6	4.3	8.8	0.0	6.9	7.0	362577	330809	355393	355669	99.
ALFALFA HAY	SOLANO	68400	0.0	3.0	2.7	0.7	0.0	0.6	0.6	68892	68400	68788	68792	99.
ALFALFA HAY	STANISLAUS	162000	51.0	4.6	4.4	8.9	0.5	7.0	7.1	177743	162769	174180	174317	99.
ALFALFA HAY	SUTTER	22715	1.0	4.3	4.0	7.1	0.0	5.6	5.7	24462	22717	24072	24088	99.
ALFALFA HAY	TEHAMA	25800	1.0	4.3	4.0	7.1	0.0	5.6	5.7	27785	25802	27342	27359	99.
ALFALFA HAY	TRINITY	164	0.0	3.2	3.1	2.7	0.0	2.1	2.1	168	164	168	168	99.
ALFALFA HAY	TULARE	842000	252.0	7.2	6.4	18.8	2.3	14.8	15.0	1037065	862113	988840	990649	99.
ALFALFA HAY	VENTURA	6475	163.0	6.4	5.8	15.6	1.5	12.3	12.5	7674	6574	7386	7397	99.
ALFALFA HAY	YOLO	132350	4.0	4.3	3.8	6.4	0.0	5.1	5.1	141443	132399	139426	139504	99.
ALFALFA HAY	YUBA	5045	1.0	4.3	4.0	7.1	0.0	5.6	5.7	5433	5045	5346	5350	99.
ALFALFA HAY	FRESNO-E	534336	313.0	6.3	5.8	15.5	2.9	12.3	12.4	632527	550282	608970	609861	99.
ALFALFA HAY	FRESNO-W	169664	313.0	4.2	4.1	7.7	2.9	6.1	6.2	183846	174727	180667	180790	99.
ALFALFA HAY	KINGS-E	161397	214.0	5.2	4.9	11.6	2.0	9.1	9.2	182517	164659	177624	177811	99.
ALFALFA HAY	KINGS-W	21801	214.0	3.5	3.5	4.9	2.0	3.9	3.9	22925	22242	22679	22689	99.
STATEWIDE		7375249								8311065	7508741	8089381	8097803	
STATEWIDE % LOSS										11.260	1.778	8.828	8.923	
ALFALFA SEED	FRESNO	0	308.5	6.3	5.8	16.0	2.9	12.6	12.7	0	0	0	0	99.
ALFALFA SEED	IMPERIAL	3748	-1.0	4.5	4.2	8.2	0.0	6.5	6.5	4082	3748	4007	4010	99.
ALFALFA SEED	KINGS	0	188.0	5.1	4.9	11.5	1.7	9.1	9.2	0	0	0	0	99.
ALFALFA SEED	LASSEN	113	6.0	5.3	4.9	11.7	0.1	9.2	9.3	128	113	124	125	99.
ALFALFA SEED	SOLANO	4	0.0	3.1	2.8	1.6	0.0	1.2	1.3	4	4	4	4	99.
ALFALFA SEED	FRESNO-E	10689	308.5	6.3	5.8	16.0	2.9	12.6	12.7	12718	11003	12229	12248	99.
ALFALFA SEED	FRESNO-W	7836	308.5	4.3	4.2	8.0	2.9	6.4	6.4	8522	8066	8368	8374	99.
ALFALFA SEED	KINGS-E	106	188.0	5.1	4.9	11.5	1.7	9.1	9.2	120	108	117	117	99.

		7480	188.0	3.5	3.5	4.9	1.7	3.8	3.9	7862	7612	7778	7782	99.
ALFALFA SEED	KINGS-W	29976								33436	30654	32627	32660	
	STATEWIDE	7480								10.348	2.212	8.125	8.218	
	STATEWIDE % LOSS													
ALMONDS	BUTTE	12719	1.0	4.4	4.2	0.0				12719				99.
ALMONDS	COLUSA	4025	1.0	4.4	4.2	0.0				4025				99.
ALMONDS	CONTRA COSTA	10	2.0	3.5	3.0	0.0				10				99.
ALMONDS	DEL NORTE	3000	-2.0	3.2	3.1	0.0				3000				99.
ALMONDS	FRESNO	0	308.5	6.3	5.8	0.0				0				99.
ALMONDS	GLENN	4289	1.0	4.4	4.2	0.0				4289				99.
ALMONDS	KERN	40332	200.0	6.6	6.0	0.0				40332				99.
ALMONDS	KINGS	0	188.0	5.1	4.9	0.0				0				99.
ALMONDS	LAKE	10	0.0	3.5	3.4	0.0				10				99.
ALMONDS	MADERA	8131	127.0	5.8	5.5	0.0				8131				99.
ALMONDS	MERCED	17000	127.0	5.8	5.5	0.0				17000				99.
ALMONDS	SAN JOAQUIN	7290	8.0	3.8	3.4	0.0				7290				99.
ALMONDS	SAN LUIS OBISP	5	0.0	3.7	3.3	0.0				5				99.
ALMONDS	SOLANO	367	0.0	3.0	2.6	0.0				367				99.
ALMONDS	STANISLAUS	16611	51.0	4.6	4.4	0.0				16611				99.
ALMONDS	SUTTER	629	1.0	4.4	4.2	0.0				629				99.
ALMONDS	TEHAMA	1350	1.0	4.4	4.2	0.0				1350				99.
ALMONDS	TULARE	4210	226.0	7.2	6.5	0.0				4210				99.
ALMONDS	YOLO	1967	4.0	4.4	3.9	0.0				1967				99.
ALMONDS	YUBA	468	1.0	4.4	4.2	0.0				468				99.
ALMONDS	FRESNO-E	7097	308.5	6.3	5.8	0.0				7097				99.
ALMONDS	FRESNO-W	5203	308.5	4.3	4.2	0.0				5203				99.
ALMONDS	KINGS-E	498	188.0	5.1	4.9	0.0				498				99.
ALMONDS	KINGS-W	975	188.0	3.5	3.5	0.0				975				99.
	STATEWIDE	136186								136186				
	STATEWIDE % LOSS									NO DATA				
APPLES	BUTTE	1684	1.0	4.6	4.3	0.0				1684				99.
APPLES	CALAVERAS	450	51.0	5.1	4.8	0.0				450				99.
APPLES	EL DORADO	7600	74.0	5.8	5.8	0.0				7600				99.
APPLES	HUMBOLDT	217	0.0	3.2	3.1	0.0				217				99.
APPLES	KERN	37600	202.0	7.0	6.4	0.0				37600				99.
APPLES	MADERA	6768	120.0	6.3	5.9	0.0				6768				99.
APPLES	MARIPOSA	540	180.0	8.2	8.4	0.0				540				99.
APPLES	MENDOCINO	7500	0.0	3.2	3.1	0.0				7500				99.
APPLES	MONTEREY	6190	0.0	3.0	2.7	0.0				6190				99.
APPLES	NEVADA	197	74.0	5.8	5.8	0.0				197				99.
APPLES	PLACER	331	91.0	5.5	5.3	0.0				331				99.
APPLES	RIVERSIDE	10	839.0	5.3	5.5	0.0				10				99.
APPLES	SAN BENITO	6615	0.0	4.4	4.0	0.0				6615				99.
APPLES	SAN BERNARDINO	885	2707.0	9.3	8.7	0.0				885				99.
APPLES	SAN DIEGO	129	22.0	5.5	4.7	0.0				129				99.
APPLES	SAN JOAQUIN	14000	28.5	4.5	4.1	0.0				14000				99.
APPLES	SAN LUIS OBISP	2243	0.0	4.0	3.6	0.0				2243				99.
APPLES	SANTA CRUZ	75793	0.0	3.2	2.9	0.0				75793				99.
APPLES	SISKIYOU	97	0.0	4.4	4.1	0.0				97				99.
APPLES	SONOMA	46104	0.0	3.1	2.8	0.0				46104				99.
APPLES	STANISLAUS	2020	51.0	5.1	4.8	0.0				2020				99.
APPLES	SUTTER	4180	15.5	5.0	4.6	0.0				4180				99.
APPLES	TUOLUMNE	243	51.0	5.1	4.8	0.0				243				99.
	STATEWIDE	221396								221396				
	STATEWIDE % LOSS									NO DATA				
APRICOTS	CONTRA COSTA	3010	2.0	3.5	3.0	0.0				3010				99.
APRICOTS	FRESNO	0	313.0	6.3	5.8	0.0				0				99.
APRICOTS	KERN	1900	203.5	6.5	5.9	0.0				1900				99.
APRICOTS	KINGS	0	214.0	5.2	4.9	0.0				0				99.
APRICOTS	MERCED	4000	127.0	5.8	5.4	0.0				4000				99.
APRICOTS	RIVERSIDE	30	1447.0	6.8	6.2	0.0				30				99.
APRICOTS	SAN BENITO	11609	0.0	4.3	3.9	0.0				11609				99.
APRICOTS	SAN JOAQUIN	18600	27.5	4.3	3.9	0.0				18600				99.
APRICOTS	SANTA CLARA	1490	-2.0	4.1	3.5	0.0				1490				99.

APRICOTS	SOLANO	785	0.0	3.0	2.7	0.0	785	99.
APRICOTS	STANISLAUS	22200	51.0	4.6	4.4	0.0	22200	99.
APRICOTS	TULARE	531	252.0	7.2	6.4	0.0	531	99.
APRICOTS	YOLO	321	4.0	4.3	3.8	0.0	321	99.
APRICOTS	FRESNO-E	883	313.0	6.3	5.8	0.0	883	99.
APRICOTS	FRESNO-W	335	313.0	4.2	4.1	0.0	835	99.
APRICOTS	KINGS-E	835	214.0	5.2	4.9	0.0	835	99.
APRICOTS	KINGS-W	408	214.0	3.5	3.5	0.0	408	99.
	STATEWIDE	67437					67437	
	STATEWIDE % LOSS						NO DATA	
ASPARAGUS	CONTRA COSTA	3063	2.0	4.5	4.1	0.0	3063	99.
ASPARAGUS	IMPERIAL	5673	0.0	4.5	4.3	0.0	5673	99.
ASPARAGUS	KERN	1710	343.0	6.7	6.0	0.0	1710	99.
ASPARAGUS	MONTEREY	8805	0.0	3.1	2.8	0.0	8805	99.
ASPARAGUS	ORANGE	2011	160.0	4.8	4.1	0.0	2011	99.
ASPARAGUS	RIVERSIDE	6199	501.0	5.4	5.5	0.0	6199	99.
ASPARAGUS	SACRAMENTO	1100	-1.0	3.9	3.5	0.0	1100	99.
ASPARAGUS	SAN JOAQUIN	26300	28.0	4.3	3.8	0.0	26300	99.
ASPARAGUS	SOLANO	292	0.0	3.0	2.6	0.0	292	99.
ASPARAGUS	YOLO	865	4.0	4.3	3.8	0.0	865	99.
	STATEWIDE	56018					56018	
	STATEWIDE % LOSS						NO DATA	
AVOCADOS	FRESNO	0	298.5	6.9	6.3	0.0	0	99.
AVOCADOS	LOS ANGELES	141	561.0	6.5	5.1	0.0	141	99.
AVOCADOS	ORANGE	5236	96.0	5.1	4.4	0.0	5236	99.
AVOCADOS	RIVERSIDE	15240	1038.7	7.2	6.3	0.0	15240	99.
AVOCADOS	SAN BERNARDINO	510	2707.0	9.3	8.7	0.0	510	99.
AVOCADOS	SAN DIEGO	132480	22.0	5.5	4.7	0.0	132480	99.
AVOCADOS	SAN LUIS OBISP	3471	-1.0	3.8	3.5	0.0	3471	99.
AVOCADOS	SANTA BARBARA	13159	1.0	4.6	4.1	0.0	13159	99.
AVOCADOS	SANTA CRUZ	50	0.0	3.1	2.8	0.0	50	99.
AVOCADOS	TULARE	3310	252.0	8.0	7.3	0.0	3310	99.
AVOCADOS	VENTURA	35855	130.0	6.9	6.1	0.0	35855	99.
AVOCADOS	FRESNO-E	960	298.5	6.9	6.3	0.0	960	99.
AVOCADOS	FRESNO-W	0	298.5	4.6	4.5	0.0	0	99.
	STATEWIDE	210412					210412	
	STATEWIDE % LOSS						NO DATA	
BARLEY	ALAMEDA	665	6.0	3.1	2.6	0.0	665	99.
BARLEY	AMADOR	148	5.0	3.8	3.6	0.0	148	99.
BARLEY	BUTTE	6750	-1.0	3.1	2.8	0.0	6750	99.
BARLEY	COLUSA	4500	-1.0	3.1	2.8	0.0	4500	99.
BARLEY	CONTRA COSTA	1380	2.0	2.5	2.0	0.0	1380	99.
BARLEY	FRESNO	0	21.0	4.4	4.0	0.0	0	99.
BARLEY	GLENN	4000	-1.0	3.1	2.8	0.0	4000	99.
BARLEY	IMPERIAL	1002	-3.0	3.6	3.3	0.0	1002	99.
BARLEY	KERN	56500	13.5	4.2	3.7	0.0	56500	99.
BARLEY	KINGS	0	2.0	3.8	3.4	0.0	0	99.
BARLEY	LAKE	200	0.0	2.5	2.4	0.0	200	99.
BARLEY	LASSEN	3288	5.0	5.2	4.9	0.0	3288	99.
BARLEY	LOS ANGELES	2389	202.0	4.1	3.8	0.0	2389	99.
BARLEY	MADERA	11590	10.0	4.2	3.9	0.0	11590	99.
BARLEY	MERCED	17300	10.0	4.2	3.9	0.0	17300	99.
BARLEY	MODOC	40745	0.0	4.7	4.4	0.0	40745	99.
BARLEY	MONTEREY	34000	0.0	3.1	2.7	0.0	34000	99.
BARLEY	ORANGE	3640	113.0	3.8	3.2	0.0	3640	99.
BARLEY	RIVERSIDE	17410	337.0	4.3	3.8	0.0	17410	99.
BARLEY	SACRAMENTO	4760	-3.0	2.6	2.3	0.0	4760	99.
BARLEY	SAN BENITO	9700	0.0	3.8	3.5	0.0	9700	99.
BARLEY	SAN BERNARDINO	2730	294.5	4.3	3.7	0.0	2730	99.
BARLEY	SAN DIEGO	2683	124.0	4.3	3.8	0.0	2683	99.
BARLEY	SAN JOAQUIN	12900	4.0	2.7	2.3	0.0	12900	99.
BARLEY	SAN LUIS OBISP	91300	0.0	3.1	2.7	0.0	91300	99.
BARLEY	SAN MATEO	275	0.0	2.0	1.8	0.0	275	99.

BARLEY	SANTA BARBARA	5322	0.0	3.5	3.3	0.0	5322	99.
BARLEY	SANTA CLARA	2340	0.0	3.8	3.5	0.0	2340	99.
BARLEY	SHASTA	1800	2.0	5.3	5.0	0.0	1800	99.
BARLEY	SISKIYOU	73396	0.0	4.7	4.4	0.0	73396	99.
BARLEY	SOLANO	17769	0.0	2.2	1.9	0.0	17769	99.
BARLEY	SOLANO	4850	0.0	3.0	2.7	0.0	4850	99.
BARLEY	STANISLAUS	11520	-1.0	3.1	2.8	0.0	11520	99.
BARLEY	SUTTER	1600	-1.0	3.1	2.8	0.0	1600	99.
BARLEY	TEHAMA	37400	20.0	5.0	4.2	0.0	37400	99.
BARLEY	TULARE	9100	0.0	3.3	2.9	0.0	9100	99.
BARLEY	YOLO	17689	0.0	4.4	4.0	0.0	17689	99.
BARLEY	FRESNO-E	45711	21.0	3.0	2.9	0.0	45711	99.
BARLEY	FRESNO-W	32411	2.0	3.8	3.4	0.0	32411	99.
BARLEY	KINGS-E	64337	2.0	2.5	2.4	0.0	64337	99.
BARLEY	KINGS-W	655100					655100	
	STATEWIDE	0.000					0.000	
	STATEWIDE % LOSS	1200	6.0	3.1	2.6	0.0	1200	99.
BARLEY-DRYLAND	ALAMEDA	144	5.0	3.8	3.6	0.0	144	99.
BARLEY-DRYLAND	AMADOR	5952	-1.0	3.1	2.8	0.0	5952	99.
BARLEY-DRYLAND	BUTTE	3240	-1.0	3.1	2.8	0.0	3240	99.
BARLEY-DRYLAND	COLUSA	1080	2.0	2.5	2.0	0.0	1080	99.
BARLEY-DRYLAND	CONTRA COSTA	0	21.0	4.4	4.0	0.0	0	99.
BARLEY-DRYLAND	FRESNO	6624	-1.0	3.1	2.8	0.0	6624	99.
BARLEY-DRYLAND	GLENN	15120	13.5	4.2	3.7	0.0	15120	99.
BARLEY-DRYLAND	KERN	0	2.0	3.8	3.4	0.0	0	99.
BARLEY-DRYLAND	KINGS	240	5.0	5.2	4.9	0.0	240	99.
BARLEY-DRYLAND	LASSEN	8640	202.0	4.1	3.8	0.0	8640	99.
BARLEY-DRYLAND	LOS ANGELES	7200	10.0	4.2	3.9	0.0	7200	99.
BARLEY-DRYLAND	MADERA	384	0.0	1.9	1.6	0.0	384	99.
BARLEY-DRYLAND	MARIN	384	-3.0	2.9	3.0	0.0	384	99.
BARLEY-DRYLAND	MENDOCINO	2832	10.0	4.2	3.9	0.0	2832	99.
BARLEY-DRYLAND	MERCED	1440	0.0	4.7	4.4	0.0	1440	99.
BARLEY-DRYLAND	MODOC	96	3.0	5.9	5.9	0.0	96	99.
BARLEY-DRYLAND	MONO	24552	0.0	3.1	2.7	0.0	24552	99.
BARLEY-DRYLAND	MONTEREY	288	0.0	2.6	2.2	0.0	288	99.
BARLEY-DRYLAND	NAPA	3648	113.0	3.8	3.2	0.0	3648	99.
BARLEY-DRYLAND	ORANGE	6720	337.0	4.3	3.8	0.0	6720	99.
BARLEY-DRYLAND	RIVERSIDE	2952	-3.0	2.6	2.3	0.0	2952	99.
BARLEY-DRYLAND	SACRAMENTO	6216	0.0	3.8	3.5	0.0	6216	99.
BARLEY-DRYLAND	SAN BENITO	1008	292.3	4.5	4.0	0.0	1008	99.
BARLEY-DRYLAND	SAN BERNARDINO	1368	6.5	4.3	3.7	0.0	1368	99.
BARLEY-DRYLAND	SAN DIEGO	1824	4.0	2.7	2.3	0.0	1824	99.
BARLEY-DRYLAND	SAN JOAQUIN	87528	0.0	3.1	2.7	0.0	87528	99.
BARLEY-DRYLAND	SAN LUIS OBISP	96	0.0	2.0	1.8	0.0	96	99.
BARLEY-DRYLAND	SAN MATEO	3240	0.0	3.5	3.3	0.0	3240	99.
BARLEY-DRYLAND	SANTA BARBARA	2304	0.0	3.8	3.5	0.0	2304	99.
BARLEY-DRYLAND	SANTA CLARA	432	2.0	5.3	5.0	0.0	432	99.
BARLEY-DRYLAND	SHASTA	2880	0.0	4.7	4.4	0.0	2880	99.
BARLEY-DRYLAND	SISKIYOU	6720	0.0	2.2	1.9	0.0	6720	99.
BARLEY-DRYLAND	SOLANO	2304	0.0	3.0	2.7	0.0	2304	99.
BARLEY-DRYLAND	STANISLAUS	7872	-1.0	3.1	2.8	0.0	7872	99.
BARLEY-DRYLAND	SUTTER	2280	-1.0	3.1	2.8	0.0	2280	99.
BARLEY-DRYLAND	TEHAMA	10200	20.0	5.0	4.2	0.0	10200	99.
BARLEY-DRYLAND	TULARE	96	0.0	3.0	2.7	0.0	96	99.
BARLEY-DRYLAND	TUOLUMNE	1224	97.0	4.8	4.2	0.0	1224	99.
BARLEY-DRYLAND	VENTURA	9624	0.0	3.2	2.8	0.0	9624	99.
BARLEY-DRYLAND	YOLO	120	-1.0	3.1	2.8	0.0	120	99.
BARLEY-DRYLAND	YUBA	135	21.0	4.4	4.0	0.0	135	99.
BARLEY-DRYLAND	FRESNO-E	2745	21.0	3.0	2.9	0.0	2745	99.
BARLEY-DRYLAND	FRESNO-W	38	2.0	3.8	3.4	0.0	38	99.
BARLEY-DRYLAND	KINGS-E	4762	2.0	2.5	2.4	0.0	4762	99.
BARLEY-DRYLAND	KINGS-W	247752					247752	
	STATEWIDE	0.000					0.000	
	STATEWIDE % LOSS	960	-1.0	3.1	2.8	0.0	960	99.
BARLEY-IRRIGAT	BUTTE	1800	-1.0	3.1	2.8	0.0	1800	99.
BARLEY-IRRIGAT	COLUSA	0	21.0	4.4	4.0	0.0	0	99.
BARLEY-IRRIGAT	FRESNO							

BARLEY-IRRIGAT	GLENN	576	-1.0	3.1	2.8	0.0				576			99.	
BARLEY-IRRIGAT	IMPERIAL	1512	-3.0	3.6	3.3	0.0				1512			99.	
BARLEY-IRRIGAT	INYO	120	3.0	5.9	5.9	0.0				120			99.	
BARLEY-IRRIGAT	KERN	41328	13.5	4.2	3.7	0.0				41328			99.	
BARLEY-IRRIGAT	KINGS	0	2.0	3.8	3.4	0.0				0			99.	
BARLEY-IRRIGAT	LASSEN	3048	5.0	5.2	4.9	0.0				3048			99.	
BARLEY-IRRIGAT	LOS ANGELES	576	202.0	4.1	3.8	0.0				576			99.	
BARLEY-IRRIGAT	MADERA	2520	10.0	4.2	3.9	0.0				2520			99.	
BARLEY-IRRIGAT	MERCED	6744	10.0	4.2	3.9	0.0				6744			99.	
BARLEY-IRRIGAT	MODOC	29760	0.0	4.7	4.4	0.0				29760			99.	
BARLEY-IRRIGAT	MONTEREY	720	0.0	3.1	2.7	0.0				720			99.	
BARLEY-IRRIGAT	RIVERSIDE	1200	337.0	4.3	3.8	0.0				1200			99.	
BARLEY-IRRIGAT	SACRAMENTO	2808	-3.0	2.4	2.3	0.0				2808			99.	
BARLEY-IRRIGAT	SAN BENITO	1008	0.0	3.8	3.5	0.0				1008			99.	
BARLEY-IRRIGAT	SAN BERNARDINO	3432	292.3	4.5	4.0	0.0				3432			99.	
BARLEY-IRRIGAT	SAN JOAQUIN	9096	4.0	2.7	2.3	0.0				9096			99.	
BARLEY-IRRIGAT	SAN LUIS OBISP	1344	0.0	3.1	2.7	0.0				1344			99.	
BARLEY-IRRIGAT	SHASTA	1368	2.0	5.3	5.0	0.0				1368			99.	
BARLEY-IRRIGAT	SISKIYOU	80424	0.0	4.7	4.4	0.0				80424			99.	
BARLEY-IRRIGAT	SOLANO	1344	0.0	2.2	1.9	0.0				1344			99.	
BARLEY-IRRIGAT	STANISLAUS	3456	0.0	3.0	2.7	0.0				3456			99.	
BARLEY-IRRIGAT	SUTTER	3648	-1.0	3.1	2.8	0.0				3648			99.	
BARLEY-IRRIGAT	TEHAMA	240	-1.0	3.1	2.8	0.0				240			99.	
BARLEY-IRRIGAT	TULARE	24000	20.0	5.0	4.2	0.0				24000			99.	
BARLEY-IRRIGAT	YOLO	576	0.0	3.3	2.9	0.0				576			99.	
BARLEY-IRRIGAT	FRESNO-E	19820	21.0	4.4	4.0	0.0				19820			99.	
BARLEY-IRRIGAT	FRESNO-W	51220	21.0	3.0	2.9	0.0				51220			99.	
BARLEY-IRRIGAT	KINGS-E	8040	2.0	3.8	3.4	0.0				8040			99.	
BARLEY-IRRIGAT	KINGS-W	15960	2.0	2.5	2.4	0.0				15960			99.	
STATEWIDE		318648								318648			99.	
STATEWIDE % LOSS										0.000			99.	
BEANS-DRY	BUTTE	4560	1.0	4.7	4.4	0.0	14.7	-22.9	13.5	4561	5348	4560	5272	99.
BEANS-DRY	COLUSA	9270	3.0	4.9	4.6	0.1	16.1	-24.1	14.8	9277	11046	9270	10886	99.
BEANS-DRY	FRESNO	0	166.0	8.2	7.5	4.0	37.4	-17.0	34.9	0	0	0	0	99.
BEANS-DRY	GLENN	4923	0.0	5.9	5.5	0.0	22.6	-26.8	21.3	4923	6360	4923	6257	99.
BEANS-DRY	HUMBOLDT	26	0.0	3.7	3.4	0.0	7.4	-13.1	6.2	26	28	26	28	99.
BEANS-DRY	INYO	143	8.0	6.4	6.4	0.2	26.1	-25.1	27.2	143	193	143	196	99.
BEANS-DRY	KERN	9700	161.0	8.3	7.6	3.9	37.4	-15.3	36.0	10090	15504	9700	15160	99.
BEANS-DRY	KINGS	0	147.0	7.1	7.0	3.5	30.7	-21.5	31.4	0	0	0	0	99.
BEANS-DRY	MADERA	5200	49.0	7.2	6.7	1.2	31.0	-23.2	29.8	5262	7531	5200	7403	99.
BEANS-DRY	MERCED	5170	49.0	7.2	6.7	1.2	31.0	-23.2	29.8	5232	7488	5170	7360	99.
BEANS-DRY	MONO	75	0.0	5.5	5.9	0.0	20.1	-26.5	23.8	75	94	75	98	99.
BEANS-DRY	MONTEREY	3304	0.0	3.0	2.7	0.0	1.8	-4.0	1.7	3304	3365	3304	3361	99.
BEANS-DRY	ORANGE	854	2707.0	9.3	8.7	65.0	43.1	0.1	43.5	2438	1500	855	1513	99.
BEANS-DRY	RIVERSIDE	187	1050.0	10.0	8.4	25.2	47.0	-4.1	41.8	250	353	187	321	99.
BEANS-DRY	SAN BERNARDINO	145	1067.0	9.9	8.3	25.6	46.2	-6.7	40.6	195	270	145	244	99.
BEANS-DRY	SAN JOAQUIN	20100	22.0	4.7	4.3	0.5	14.2	-22.1	12.7	20207	23438	20100	23014	99.
BEANS-DRY	SAN LUIS OBISP	938	-0.7	3.5	3.3	0.0	6.0	-11.9	5.6	938	998	938	993	99.
BEANS-DRY	SAN MATEO	12	0.0	2.5	2.3	0.0	-1.5	4.1	-1.6	12	12	13	12	99.
BEANS-DRY	SANTA BARBARA	5078	0.0	3.5	3.3	0.0	6.2	-11.5	5.3	5078	5416	5078	5365	99.
BEANS-DRY	SOLANO	6930	0.0	3.1	2.8	0.0	3.0	-5.3	2.3	6930	7146	6930	7090	99.
BEANS-DRY	STANISLAUS	37490	51.0	5.2	4.9	1.2	17.8	-25.6	17.1	37955	45624	37490	45220	99.
BEANS-DRY	SUTTER	16291	13.5	5.1	4.8	0.3	17.6	-25.0	16.1	16344	19775	16291	19419	99.
BEANS-DRY	TEHAMA	900	3.0	5.8	5.4	0.1	21.9	-26.7	20.8	901	1153	900	1136	99.
BEANS-DRY	TULARE	12600	206.0	8.2	7.7	4.9	37.3	-14.0	36.8	13255	20084	12600	19933	99.
BEANS-DRY	YOLO	1750	4.0	4.7	4.1	0.1	14.4	-20.6	11.3	1752	2044	1750	1974	99.
BEANS-DRY	YUBA	441	9.0	5.9	5.7	0.2	23.2	-26.8	22.2	442	574	441	567	99.
BEANS-DRY	FRESNO-E	3006	166.0	8.2	7.5	4.0	37.4	-17.0	34.9	3131	4800	3006	4617	99.
BEANS-DRY	FRESNO-W	5994	166.0	5.6	5.3	4.0	20.5	-26.6	20.0	6243	7540	5994	7497	99.
BEANS-DRY	KINGS-E	4913	147.0	7.1	7.0	3.5	30.7	-21.5	31.4	5093	7090	4913	7166	99.
BEANS-DRY	KINGS-W	0	147.0	4.8	5.0	3.5	15.2	-25.8	17.5	0	0	0	0	99.
STATEWIDE		160000								164057	204774	160002	202102	99.
STATEWIDE % LOSS										2.473	21.865	0.001	20.832	99.
BROCCOLI	FRESNO	0	147.5	5.5	4.9	-17.2	0.0	0.0	0.0	0	0	0	0	99.
BROCCOLI	IMPERIAL	39865	-4.0	2.9	2.5	-0.2	0.0	0.0	0.0	39865	39865	39865	39865	99.

CHERRIES	CONTRA COSTA	405	2.0	4.3	3.9	0.0				405					99.
CHERRIES	EL DORADO	59	74.0	5.3	5.2	0.0				59					99.
CHERRIES	PLACER	13	91.0	5.0	4.8	0.0				13					99.
CHERRIES	RIVERSIDE	23	839.0	4.8	4.9	0.0				23					99.
CHERRIES	SAN BENITO	532	0.0	4.3	3.9	0.0				532					99.
CHERRIES	SAN JOAQUIN	7250	8.0	3.7	3.3	0.0				7250					99.
CHERRIES	SANTA CLARA	444	-2.0	4.1	3.5	0.0				444					99.
CHERRIES	SOLANO	131	0.0	3.0	2.7	0.0				131					99.
CHERRIES	STANISLAUS	2180	51.0	4.6	4.4	0.0				2180					99.
CHERRIES	SUTTER	18	13.5	5.0	4.6	0.0				18					99.
	STATEWIDE	11055								11055					99.
	STATEWIDE % LOSS									NO DATA					99.
CORN-FIELD	AMADOR	1444	49.0	6.2	6.2	2.8				1486					99.
CORN-FIELD	BUTTE	7600	1.0	4.7	4.5	1.0				7673					99.
CORN-FIELD	COLUSA	37000	2.0	5.0	4.8	1.2				37442					99.
CORN-FIELD	CONTRA COSTA	18000	2.0	4.7	4.4	1.0				18173					99.
CORN-FIELD	FRESNO	0	236.0	7.2	6.7	4.9				0					99.
CORN-FIELD	GLENN	24000	-1.0	5.4	5.1	1.7				24403					99.
CORN-FIELD	IMPERIAL	2572	0.0	4.5	4.2	0.8				2592					99.
CORN-FIELD	KERN	54800	173.0	7.4	6.9	5.5				57999					99.
CORN-FIELD	KINGS	0	149.0	5.6	5.5	1.9				0					99.
CORN-FIELD	LASSEN	200	5.0	5.2	4.9	1.4				203					99.
CORN-FIELD	MADERA	46480	78.0	6.6	6.3	3.6				48218					99.
CORN-FIELD	MERCED	60200	78.0	6.6	6.3	3.6				62450					99.
CORN-FIELD	MONTEREY	2860	0.0	3.0	2.7	0.1				2861					99.
CORN-FIELD	RIVERSIDE	18460	1321.0	8.9	7.7	10.7				20661					99.
CORN-FIELD	SACRAMENTO	96000	0.0	3.8	3.4	0.3				96317					99.
CORN-FIELD	SAN JOAQUIN	282000	27.0	4.9	4.6	1.1				285150					99.
CORN-FIELD	SOLANO	195980	0.0	3.2	2.9	0.1				196219					99.
CORN-FIELD	STANISLAUS	27100	50.0	5.3	5.2	1.5				27525					99.
CORN-FIELD	SUTTER	21002	11.0	5.3	4.9	1.5				21314					99.
CORN-FIELD	TEHAMA	5600	1.0	4.9	4.7	1.1				5663					99.
CORN-FIELD	TULARE	44300	187.0	7.9	7.4	7.0				47637					99.
CORN-FIELD	YOLO	111100	4.0	4.6	4.1	0.8				112022					99.
CORN-FIELD	YUBA	3750	1.0	4.9	4.7	1.1				3792					99.
CORN-FIELD	FRESNO-E	21615	236.0	7.2	6.7	4.9				22731					99.
CORN-FIELD	FRESNO-W	11085	236.0	4.8	4.8	1.0				11203					99.
CORN-FIELD	KINGS-E	49342	149.0	5.6	5.5	1.9				50307					99.
CORN-FIELD	KINGS-W	6098	149.0	3.8	3.9	0.3				6119					99.
	STATEWIDE	1148588								1170160					99.
	STATEWIDE % LOSS									1.844					99.
CORN-SWEET	CONTRA COSTA	4330	2.0	3.8	3.3	2.2				4427					99.
CORN-SWEET	HUMBOLDT	234	0.0	3.3	3.2	1.9				239					99.
CORN-SWEET	LOS ANGELES	3630	1114.0	5.9	5.1	7.4				3922					99.
CORN-SWEET	ORANGE	11764	169.0	4.7	4.0	4.1				12273					99.
CORN-SWEET	RIVERSIDE	28661	230.0	5.3	5.2	7.7				31052					99.
CORN-SWEET	SACRAMENTO	2100	-2.0	2.8	2.6	0.3				2105					99.
CORN-SWEET	SAN BERNARDINO	330	723.0	6.4	5.6	8.6				361					99.
CORN-SWEET	SAN DIEGO	5138	114.0	4.8	4.4	5.4				5434					99.
CORN-SWEET	SANTA CLARA	4200	-2.0	4.1	3.8	3.6				4355					99.
CORN-SWEET	SUTTER	775	4.0	5.0	4.8	6.4				828					99.
CORN-SWEET	VENTURA	12530	97.0	5.8	5.3	7.8				13588					99.
	STATEWIDE	73692								78584					99.
	STATEWIDE % LOSS									6.225					99.
COTTON	FRESNO	0	294.0	7.3	6.8	26.1	18.7	20.6	38.2	0	0	0	0	0	99.
COTTON	IMPERIAL	10816	-1.0	4.3	4.0	5.5	7.5	7.2	9.4	11443	11693	11660	11943	99.	
COTTON	KERN	140400	198.5	7.4	6.9	26.8	19.0	20.9	39.2	191878	173341	177603	230860	99.	
COTTON	KINGS	0	188.0	5.9	5.7	14.5	13.7	14.1	22.4	0	0	0	0	99.	
COTTON	MADERA	18706	120.0	6.7	6.3	20.6	16.5	17.7	30.7	23553	22412	22725	26993	99.	
COTTON	MERCED	27425	120.0	6.7	6.3	20.6	16.5	17.7	30.7	34531	32858	33318	39575	99.	
COTTON	RIVERSIDE	11724	-1.0	4.3	4.0	5.5	7.5	7.2	9.4	12404	12674	12638	12945	99.	
COTTON	TULARE	61628	226.0	8.0	7.6	32.6	21.0	23.8	47.2	91493	78030	80835	116745	99.	
COTTON	FRESNO-E	48207	294.0	7.3	6.8	26.1	18.7	20.6	38.2	65247	59325	60706	78019	99.	
COTTON	FRESNO-W	167001	294.0	4.9	4.8	8.5	10.0	9.9	14.0	182610	185548	185382	194244	99.	
COTTON	KINGS-E	41750	188.0	5.9	5.7	14.5	13.7	14.1	22.4	48828	48350	48611	53811	99.	

GRAIN SORGHUM	FRESNO	0	230.0	8.1	7.5	1.7	0	99.
GRAIN SORGHUM	GLENN	4600	0.0	5.2	4.9	0.4	4619	99.
GRAIN SORGHUM	IMPERIAL	1358	0.0	4.9	4.6	0.3	1362	99.
GRAIN SORGHUM	KERN	12500	161.0	8.3	7.6	1.8	12728	99.
GRAIN SORGHUM	KINGS	0	147.0	6.1	6.0	0.7	0	99.
GRAIN SORGHUM	MERCED	684	117.0	6.8	6.4	1.0	691	99.
GRAIN SORGHUM	RIVERSIDE	6255	612.0	8.0	7.3	1.6	6358	99.
GRAIN SORGHUM	SACRAMENTO	1300	0.0	4.3	3.9	0.2	1303	99.
GRAIN SORGHUM	SAN JOAQUIN	1570	23.5	5.1	4.8	0.4	1576	99.
GRAIN SORGHUM	SOLANO	3025	0.0	3.3	3.0	0.1	3027	99.
GRAIN SORGHUM	SUTTER	10870	11.0	5.5	5.2	0.5	10925	99.
GRAIN SORGHUM	TEHAMA	320	3.0	5.8	5.4	0.6	322	99.
GRAIN SORGHUM	TULARE	10300	167.0	8.5	8.0	2.0	10507	99.
GRAIN SORGHUM	YOLO	1800	4.0	5.2	4.5	0.4	1807	99.
GRAIN SORGHUM	FRESNO-E	2543	230.0	8.1	7.5	1.7	2586	99.
GRAIN SORGHUM	FRESNO-W	387	230.0	5.4	5.3	0.5	389	99.
GRAIN SORGHUM	KINGS-E	3195	147.0	6.1	6.0	0.7	3218	99.
GRAIN SORGHUM	KINGS-W	0	147.0	4.1	4.3	0.2	0	99.
	STATEWIDE	68707					69458	
	STATEWIDE % LOSS	5733	-1.0	4.3	4.0	0.0	1.081	99.
GRAPEFRUIT	IMPERIAL	16200	202.0	7.0	6.4	0.0	5733	99.
GRAPEFRUIT	KERN	431	96.0	5.1	4.4	0.0	16200	99.
GRAPEFRUIT	ORANGE	183725	39.0	4.6	4.2	0.0	431	99.
GRAPEFRUIT	RIVERSIDE	15675	2707.0	9.3	8.7	0.0	183725	99.
GRAPEFRUIT	SAN BERNARDINO	2000	252.0	7.8	7.1	0.0	15675	99.
GRAPEFRUIT	SAN DIEGO	9885	141.0	6.6	5.8	0.0	36560	99.
GRAPEFRUIT	TULARE	270209					2000	99.
GRAPEFRUIT	VENTURA						9885	99.
	STATEWIDE						270209	
	STATEWIDE % LOSS						NO DATA	
GRAPES-RAISIN	FRESNO	0	298.5	6.9	6.3	31.9	0	99.
GRAPES-RAISIN	KERN	218802	202.0	7.0	6.4	33.2	327553	301444
GRAPES-RAISIN	KINGS	0	214.0	5.7	5.4	24.7	0	99.
GRAPES-RAISIN	MADERA	324657	120.0	6.3	5.9	28.7	455098	425319
GRAPES-RAISIN	MERCED	15840	120.0	6.3	5.9	28.7	22204	20751
GRAPES-RAISIN	TULARE	263411	252.0	7.8	7.1	38.7	429459	386952
GRAPES-RAISIN	FRESNO-E	1541564	298.5	6.9	6.3	31.9	2262222	2091812
GRAPES-RAISIN	FRESNO-W	41151	298.5	4.6	4.5	16.8	49467	47784
GRAPES-RAISIN	KINGS-E	12225	214.0	5.7	5.4	24.7	16238	15359
GRAPES-RAISIN	KINGS-W	1811	214.0	3.8	3.9	11.8	2053	2006
	STATEWIDE	2419461					3564294	3291427
	STATEWIDE % LOSS	0					32.119	26.492
GRAPES-TABLE	FRESNO	0	298.5	6.9	6.3	31.9	0	99.
GRAPES-TABLE	KERN	147400	202.0	7.0	6.4	33.2	220662	203073
GRAPES-TABLE	KINGS	0	214.0	5.7	5.4	24.7	0	99.
GRAPES-TABLE	MADERA	11347	120.0	6.3	5.9	28.7	15906	14865
GRAPES-TABLE	RIVERSIDE	90133	230.0	6.5	6.7	35.1	138953	126969
GRAPES-TABLE	SAN JOAQUIN	150000	28.5	4.5	4.1	13.1	172637	168213
GRAPES-TABLE	TULARE	202400	252.0	7.8	7.1	38.7	329988	297327
GRAPES-TABLE	FRESNO-E	65044	298.5	6.9	6.3	31.9	95451	88261
GRAPES-TABLE	FRESNO-W	1736	298.5	4.6	4.5	16.8	2087	2016
GRAPES-TABLE	KINGS-E	415	214.0	5.7	5.4	24.7	551	521
GRAPES-TABLE	KINGS-W	61	214.0	3.8	3.9	11.8	69	68
	STATEWIDE	668536					976304	901313
	STATEWIDE % LOSS	4908	45.0	4.6	3.9	11.6	31.524	25.826
GRAPES-WINE	ALAMEDA	5432	74.0	5.8	5.8	27.3	5552	5428
GRAPES-WINE	AMADOR	300	74.0	5.8	5.8	27.3	7474	7014
GRAPES-WINE	CALAVERAS	1964	2.0	3.8	3.2	5.5	413	387
GRAPES-WINE	CONTRA COSTA	1703	74.0	5.8	5.8	27.3	2079	2058
GRAPES-WINE	EL DORADO	0	298.5	6.9	6.3	31.9	2343	2199
GRAPES-WINE	FRESNO	223500	202.0	7.0	6.4	33.2	0	0
GRAPES-WINE	KERN	0	214.0	5.7	5.4	24.7	334586	307916
GRAPES-WINE	KINGS	11396	0.0	3.8	3.6	8.9	0	0
GRAPES-WINE	LAKE	350734	120.0	6.3	5.9	28.7	12511	12301
GRAPES-WINE	MADERA						491652	459481

GRAPES-WINE	MENDOCINO	42938	0.0	3.2	3.1	4.7	3.9	45059	44674	99.
GRAPES-WINE	MERCED	104000	120.0	6.3	5.9	28.7	23.7	145785	136246	99.
GRAPES-WINE	MONTEREY	102706	0.0	3.0	2.7	2.0	1.7	104821	104446	99.
GRAPES-WINE	NAPA	113220	0.0	3.5	3.1	4.9	4.0	119022	117969	99.
GRAPES-WINE	PLACER	260	91.0	5.5	5.3	23.2	19.2	339	322	99.
GRAPES-WINE	RIVERSIDE	13530	751.5	6.3	5.8	27.4	22.6	18637	17487	99.
GRAPES-WINE	SACRAMENTO	32800	0.0	4.0	3.5	8.6	7.1	35876	35299	99.
GRAPES-WINE	SAN BENITO	7400	0.0	4.4	4.0	12.3	10.1	8435	8234	99.
GRAPES-WINE	SAN BERNARDINO	8600	2671.0	8.6	7.3	40.5	33.5	14457	12923	99.
GRAPES-WINE	SAN DIEGO	126	79.0	4.9	4.4	16.4	13.5	151	146	99.
GRAPES-WINE	SAN JOAQUIN	259000	28.5	4.5	4.1	13.1	10.8	298086	290448	99.
GRAPES-WINE	SAN LUIS OBISP	23119	0.0	3.7	3.4	7.3	6.0	24943	24605	99.
GRAPES-WINE	SANTA BARBARA	26149	0.0	3.8	3.5	8.4	6.9	28549	28099	99.
GRAPES-WINE	SANTA CLARA	4800	0.0	4.1	3.5	8.8	7.3	5265	5177	99.
GRAPES-WINE	SANTA CRUZ	79	0.0	3.2	2.9	3.2	2.6	82	81	99.
GRAPES-WINE	SOLANO	4773	0.0	3.2	2.8	2.7	2.2	4905	4881	99.
GRAPES-WINE	SONOMA	107992	0.0	3.1	2.8	2.7	2.2	110977	110445	99.
GRAPES-WINE	STANISLAUS	149800	51.0	5.1	4.8	19.6	16.2	186282	178698	99.
GRAPES-WINE	TULARE	136820	252.0	7.8	7.1	38.7	31.9	223068	200989	99.
GRAPES-WINE	YOLO	10917	4.0	4.6	4.1	13.4	11.0	12601	12271	99.
GRAPES-WINE	FRESNO-E	273012	298.5	6.9	6.3	31.9	26.3	400641	370461	99.
GRAPES-WINE	FRESNO-W	7288	298.5	4.6	4.5	16.8	13.9	8761	8463	99.
GRAPES-WINE	KINGS-E	12689	214.0	5.7	5.4	24.7	20.4	16854	15942	99.
GRAPES-WINE	KINGS-W	1879	214.0	3.8	3.9	11.8	9.7	2130	2081	99.
	STATEWIDE	2043834						2672336	2527171	
	STATEWIDE % LOSS	0						23.519	19.126	
HONEYDEW	FRESNO	0	133.0	6.8	6.4	40.2		0		99.
HONEYDEW	IMPERIAL	15632	0.0	4.5	4.3	18.0		19074		99.
HONEYDEW	RIVERSIDE	9455	226.0	7.1	7.4	43.8		16815		99.
HONEYDEW	STANISLAUS	24400	25.0	5.1	5.0	24.1		32160		99.
HONEYDEW	SUTTER	26212	13.5	5.1	4.8	23.6		34323		99.
HONEYDEW	YOLO	46464	4.0	4.6	4.1	18.9		57324		99.
HONEYDEW	FRESNO-E	1172	133.0	6.8	6.4	40.2		1959		99.
HONEYDEW	FRESNO-W	17428	133.0	4.5	4.6	18.1		21292		99.
	STATEWIDE	140763						182947		
	STATEWIDE % LOSS	0						23.058		
LEMONS	FRESNO	0	298.5	6.9	6.9	10.6		0		99.
LEMONS	IMPERIAL	11953	-1.0	4.3	5.6	9.1		13154		99.
LEMONS	KERN	24795	202.0	7.0	5.6	9.2		27298		99.
LEMONS	LOS ANGELES	1200	561.0	6.5	5.5	9.1		1320		99.
LEMONS	ORANGE	15995	96.0	5.1	4.9	8.2		17428		99.
LEMONS	RIVERSIDE	64967	641.3	6.1	6.6	10.4		72473		99.
LEMONS	SAN BERNARDINO	7885	2900.5	9.1	6.7	10.4		8801		99.
LEMONS	SAN DIEGO	53550	79.0	4.9	4.9	8.2		58304		99.
LEMONS	SAN LUIS OBISP	11994	0.0	4.3	3.9	6.0		12755		99.
LEMONS	SANTA BARBARA	18697	3.3	4.5	4.4	7.1		20132		99.
LEMONS	TULARE	54300	252.0	7.8	5.7	9.3		59851		99.
LEMONS	VENTURA	321682	30.0	5.8	4.2	6.8		345043		99.
LEMONS	FRESNO-E	11011	298.5	6.9	6.9	10.6		12320		99.
LEMONS	FRESNO-W	179	298.5	4.6	4.8	8.0		195		99.
	STATEWIDE	598208						649074		
	STATEWIDE % LOSS	0						7.837		
LETTUCE	FRESNO	0	180.5	5.1	4.5	0.0	9.4	0	0	99.
LETTUCE	IMPERIAL	341117	-4.0	2.3	2.0	0.0	-0.2	0.0	0.0	99.
LETTUCE	KERN	95400	112.0	5.0	4.4	0.0	5.8	0.0	0.0	99.
LETTUCE	KINGS	0	174.0	4.5	4.1	0.0	9.0	0.0	0.0	99.
LETTUCE	MONTEREY	1280021	0.0	3.0	2.7	0.0	0.0	0.0	0.0	99.
LETTUCE	ORANGE	7712	119.0	4.0	3.2	0.0	6.2	0.0	0.0	99.
LETTUCE	RIVERSIDE	157695	-3.0	2.3	2.0	0.0	-0.2	0.0	0.0	99.
LETTUCE	SACRAMENTO	300	0.0	3.1	2.7	0.0	0.0	0.0	0.0	99.
LETTUCE	SAN BENITO	18465	0.0	4.1	3.7	0.0	0.0	0.0	0.0	99.
LETTUCE	SAN BERNARDINO	1465	381.5	4.2	3.4	0.0	19.8	0.0	0.0	99.
LETTUCE	SAN LUIS OBISP	163700	0.0	3.5	3.3	0.0	0.0	0.0	0.0	99.
LETTUCE	SAN MATEO	910	0.0	2.3	2.1	0.0	0.0	0.0	0.0	99.
LETTUCE	SANTA BARBARA	154847	0.5	3.3	3.0	0.0	0.0	0.0	0.0	99.
LETTUCE	SANTA CLARA	11200	-3.0	4.1	3.5	0.0	-0.2	0.0	0.0	99.
								341117	341117	
								95400	95434	
								0	0	
								1280021	1280021	
								7712	7712	
								157695	157695	
								300	300	
								18465	18465	
								1465	1465	
								163700	163703	
								910	910	
								154847	154887	
								11200	11201	

		96658						96658		
		STATEWIDE % LOSS						NO DATA		
STATEWIDE		0	250.5	5.6	5.2	26.2	6.1	0	0	99.
STATEWIDE % LOSS		99079	-3.0	4.2	3.9	13.7	3.2	114760	102324	99.
ONIONS-DRY(	DEH FRESNO	112000	174.5	5.7	5.2	26.7	6.2	152869	119410	99.
ONIONS-DRY(	DEH IMPERIAL	0	149.0	4.5	4.3	17.4	4.0	0	0	99.
ONIONS-DRY(	DEH KERN	25900	0.0	4.4	4.1	16.0	3.7	30848	26902	99.
ONIONS-DRY(	DEH KINGS	10660	273.3	4.7	4.3	17.3	4.0	12894	11107	99.
ONIONS-DRY(	DEH MODOC	8250	0.0	4.4	4.1	16.0	3.7	9826	8569	99.
ONIONS-DRY(	DEH RIVERSIDE	5372	250.5	5.6	5.2	26.2	6.1	7283	5720	99.
ONIONS-DRY(	DEH SISKIYOU	152628	250.5	3.7	3.7	11.8	2.7	173014	156920	99.
ONIONS-DRY(	DEH FRESNO-E	761	149.0	4.5	4.3	17.4	4.0	922	793	99.
ONIONS-DRY(	DEH FRESNO-W	9385	149.0	3.0	3.0	5.4	1.3	9926	9505	99.
ONIONS-DRY(	DEH KINGS-E	424035						512342	441250	
ONIONS-DRY(	DEH KINGS-W	288	2.0	4.0	3.6	11.3	2.6	17.236	3.901	99.
STATEWIDE % LOSS		0	250.5	5.6	5.2	26.2	6.1	325	296	99.
ONIONS-DRY(	FRE CONTRA COSTA	54174	-3.0	4.2	3.9	13.7	3.2	0	0	99.
ONIONS-DRY(	FRE FRESNO	46900	174.5	5.7	5.2	26.7	6.2	62748	55948	99.
ONIONS-DRY(	FRE IMPERIAL	34800	2121.0	8.5	7.2	46.0	10.7	64014	50003	99.
ONIONS-DRY(	FRE KERN	11257	273.3	4.7	4.3	17.3	4.0	64495	38964	99.
ONIONS-DRY(	FRE LOS ANGELES	5270	0.0	2.9	2.6	1.1	0.3	5328	5283	99.
ONIONS-DRY(	FRE MONTEREY	17205	0.0	4.3	3.9	14.0	3.2	13616	11729	99.
ONIONS-DRY(	FRE RIVERSIDE	17205	0.0	4.3	3.9	14.0	3.2	19997	17781	99.
ONIONS-DRY(	FRE SAN BENITO	670	645.0	5.1	4.3	17.7	4.1	814	699	99.
ONIONS-DRY(	FRE SAN BERNARDINO	33600	8.0	3.3	3.0	5.0	1.2	35387	33999	99.
ONIONS-DRY(	FRE SAN JOAQUIN	5950	0.0	4.0	3.6	10.6	2.5	6655	6100	99.
ONIONS-DRY(	FRE SANTA CLARA	1503	250.5	5.6	5.2	26.2	6.1	2038	1600	99.
ONIONS-DRY(	FRE FRESNO-E	42697	250.5	3.7	3.7	11.8	2.7	48400	43898	99.
ONIONS-DRY(	FRE FRESNO-W	254314						323817	266300	
STATEWIDE % LOSS		21.464						4.501		

ORANGES	BUTTE	2033	1.0	4.6	3.5	5.3	14.0	2.6	2146	2364	2088	99.
ORANGES	FRESNO	0	298.5	6.9	6.9	24.6	65.5	12.3	0	0	0	99.
ORANGES	GLENN	9636	-1.0	5.0	4.4	10.3	27.4	5.1	10742	13277	10159	99.
ORANGES	IMPERIAL	4598	-1.0	4.3	5.6	16.9	45.0	8.4	5532	8355	5022	99.
ORANGES	KERN	200600	202.0	7.0	5.6	17.0	45.4	8.5	241826	367461	219292	99.
ORANGES	MADERA	25093	120.0	6.3	6.0	19.4	51.6	9.7	31122	51847	27784	99.
ORANGES	ORANGE	71082	96.0	5.1	4.9	13.6	36.1	6.8	82233	111276	76252	99.
ORANGES	PLACER	275	108.0	5.2	4.6	11.6	30.8	5.8	311	397	292	99.
ORANGES	RIVERSIDE	167937	1530.0	7.8	7.1	25.2	67.1	12.6	224468	510165	192130	99.
ORANGES	SAN BERNARDINO	60091	1388.5	8.7	8.3	32.2	85.7	16.1	88575	418995	71604	99.
ORANGES	SAN DIEGO	134227	79.0	4.9	4.9	13.3	35.5	6.7	154888	208205	143819	99.
ORANGES	TULARE	941200	252.0	7.8	5.7	17.5	46.6	8.7	1140719	1762173	1031399	99.
ORANGES	VENTURA	159415	141.0	6.7	5.3	15.5	41.3	7.7	188652	271488	172806	99.
ORANGES	FRESNO-E	227402	298.5	6.9	6.9	24.6	65.5	12.3	301496	658374	259259	99.
ORANGES	FRESNO-W	3698	298.5	4.6	4.8	12.8	34.2	6.4	4243	5620	3952	99.

2476953 4389997 2215858
 18.961 54.276 9.413

STATEWIDE 2007287
 STATEWIDE % LOSS

PASTURE-IRR	ALAMEDA	0	45.0	4.0	3.3	0.0	0	99.
PASTURE-IRR	AMADOR	0	74.0	6.3	6.2	0.0	0	99.
PASTURE-IRR	BUTTE	0	1.0	4.4	4.2	0.0	0	99.
PASTURE-IRR	CALAVERAS	0	51.0	5.3	5.2	0.0	0	99.
PASTURE-IRR	COLUSA	0	1.0	4.4	4.2	0.0	0	99.
PASTURE-IRR	CONTRA COSTA	0	2.0	3.5	3.0	0.0	0	99.
PASTURE-IRR	DEL NORTE	0	0.0	4.6	4.3	0.0	0	99.
PASTURE-IRR	EL DORADO	0	74.0	6.3	6.2	0.0	0	99.
PASTURE-IRR	FRESNO	0	308.5	6.3	5.8	0.0	0	99.
PASTURE-IRR	GLENN	0	1.0	4.3	4.0	0.0	0	99.
PASTURE-IRR	HUMBOLDT	0	0.0	3.2	3.1	0.0	0	99.
PASTURE-IRR	IMPERIAL	0	-3.0	3.8	3.5	0.0	0	99.
PASTURE-IRR	INYO	0	4.0	5.3	5.4	0.0	0	99.
PASTURE-IRR	KERN	0	200.0	6.6	6.0	0.0	0	99.
PASTURE-IRR	KINGS	0	188.0	5.1	4.9	0.0	0	99.
PASTURE-IRR	LAKE	0	0.0	3.5	3.4	0.0	0	99.
PASTURE-IRR	LASSEN	0	6.0	5.3	4.9	0.0	0	99.
PASTURE-IRR	MADERA	0	127.0	5.8	5.5	0.0	0	99.
PASTURE-IRR	MARIN	0	0.0	3.3	3.0	0.0	0	99.
PASTURE-IRR	MARIPOSA	0	51.0	5.3	5.2	0.0	0	99.
PASTURE-IRR	MENDOCINO	0	-2.0	3.2	3.1	0.0	0	99.
PASTURE-IRR	MERCED	0	120.0	6.4	6.0	0.0	0	99.
PASTURE-IRR	MODOC	0	0.0	4.6	4.3	0.0	0	99.
PASTURE-IRR	MONO	0	0.0	5.4	5.7	0.0	0	99.
PASTURE-IRR	MONTEREY	0	0.0	3.0	2.8	0.0	0	99.
PASTURE-IRR	NAPA	0	0.0	3.4	3.0	0.0	0	99.
PASTURE-IRR	NEVADA	0	74.0	6.3	6.2	0.0	0	99.
PASTURE-IRR	ORANGE	0	155.0	4.8	4.2	0.0	0	99.
PASTURE-IRR	PLACER	0	90.0	5.9	5.7	0.0	0	99.
PASTURE-IRR	PLUMAS	0	1.0	4.9	4.7	0.0	0	99.
PASTURE-IRR	RIVERSIDE	0	674.3	5.9	5.7	0.0	0	99.
PASTURE-IRR	SACRAMENTO	0	-2.0	3.8	3.4	0.0	0	99.
PASTURE-IRR	SAN BENITO	0	0.0	4.2	3.8	0.0	0	99.
PASTURE-IRR	SAN BERNARDINO	0	844.5	6.6	5.8	0.0	0	99.
PASTURE-IRR	SAN DIEGO	0	129.0	4.7	4.3	0.0	0	99.
PASTURE-IRR	SAN JOAQUIN	0	8.0	3.8	3.4	0.0	0	99.
PASTURE-IRR	SAN LUIS OBISP	0	0.0	4.1	3.8	0.0	0	99.
PASTURE-IRR	SAN MATEO	0	0.0	2.5	2.2	0.0	0	99.
PASTURE-IRR	SANTA BARBARA	0	0.0	3.9	3.7	0.0	0	99.
PASTURE-IRR	SANTA CLARA	0	0.0	4.2	3.8	0.0	0	99.
PASTURE-IRR	SHASTA	0	5.0	4.8	4.5	0.0	0	99.
PASTURE-IRR	SIERRA	0	74.0	6.3	6.2	0.0	0	99.
PASTURE-IRR	SISKIYOU	0	0.0	4.6	4.3	0.0	0	99.
PASTURE-IRR	SOLANO	0	0.0	3.0	2.6	0.0	0	99.
PASTURE-IRR	SONOMA	0	0.0	2.7	2.4	0.0	0	99.
PASTURE-IRR	STANISLAUS	0	51.0	4.6	4.4	0.0	0	99.
PASTURE-IRR	SUTTER	0	1.0	4.3	4.0	0.0	0	99.
PASTURE-IRR	TEHAMA	0	2.5	4.7	4.4	0.0	0	99.
PASTURE-IRR	TRINITY	0	0.0	4.3	4.1	0.0	0	99.
PASTURE-IRR	TULARE	0	252.0	7.2	6.4	0.0	0	99.
PASTURE-IRR	TUOLUMNE	0	3.0	3.9	3.4	0.0	0	99.
PASTURE-IRR	YOLO	0	4.0	4.3	3.8	0.0	0	99.
PASTURE-IRR	YUBA	0	1.0	4.4	4.2	0.0	0	99.
PASTURE-IRR	FRESNO-E	0	308.5	6.3	5.8	0.0	0	99.
PASTURE-IRR	FRESNO-W	0	308.5	4.3	4.2	0.0	0	99.
PASTURE-IRR	KINGS-E	0	188.0	5.1	4.9	0.0	0	99.
PASTURE-IRR	KINGS-W	0	188.0	3.5	3.5	0.0	0	99.

STATEWIDE
 STATEWIDE % LOSS

NO DATA

PEACHES	BUTTE	31447	1.0	4.4	4.1	0.0	31447	99.
PEACHES	CONTRA COSTA	1330	2.0	3.7	3.1	0.0	1330	99.
PEACHES	EL DORADO	102	74.0	5.6	5.5	0.0	102	99.
PEACHES	FRESNO	0	313.0	6.6	6.1	0.0	0	99.

PEACHES	KERN	14370	202.5	6.8	6.2	0.0	14370	99.
PEACHES	KINGS	0	214.0	5.5	5.2	0.0	0	99.
PEACHES	LOS ANGELES	3500	792.0	6.4	6.4	0.0	3500	99.
PEACHES	MADERA	8902	127.0	6.1	5.7	0.0	8902	99.
PEACHES	MERCED	64000	127.0	6.1	5.7	0.0	64000	99.
PEACHES	PLACER	393	91.0	5.2	5.0	0.0	393	99.
PEACHES	RIVERSIDE	1183	839.0	5.0	5.2	0.0	1183	99.
PEACHES	SAN JOAQUIN	41100	28.0	4.4	4.0	0.0	41100	99.
PEACHES	SOLANO	1544	0.0	3.1	2.7	0.0	1544	99.
PEACHES	STANISLAUS	171700	51.0	4.9	4.6	0.0	171700	99.
PEACHES	SUTTER	161822	14.5	5.0	4.6	0.0	161822	99.
PEACHES	TEHAMA	260	3.0	4.6	4.3	0.0	260	99.
PEACHES	TULARE	59200	252.0	7.5	6.7	0.0	59200	99.
PEACHES	YOLO	1200	4.0	4.5	4.0	0.0	1200	99.
PEACHES	YUBA	55324	1.0	4.7	4.4	0.0	55324	99.
PEACHES	FRESNO-E	133800	313.0	6.6	6.1	0.0	133800	99.
PEACHES	FRESNO-W	0	313.0	4.5	4.3	0.0	0	99.
PEACHES	KINGS-E	24077	214.0	5.5	5.2	0.0	24077	99.
PEACHES	KINGS-W	11752	214.0	3.7	3.7	0.0	11752	99.
	STATEWIDE	787006					787006	
	STATEWIDE % LOSS						NO DATA	
PEARS	CONTRA COSTA	3800	2.0	4.6	4.2	0.0	3800	99.
PEARS	EL DORADO	4316	74.0	6.0	5.9	0.0	4316	99.
PEARS	FRESNO	0	298.5	7.1	6.5	0.0	0	99.
PEARS	LAKE	72417	0.0	3.8	3.6	0.0	72417	99.
PEARS	LOS ANGELES	577	734.0	6.8	6.8	0.0	577	99.
PEARS	MENDOCINO	54777	0.0	3.3	3.1	0.0	54777	99.
PEARS	PLACER	749	90.0	5.7	5.4	0.0	749	99.
PEARS	SACRAMENTO	102000	0.0	4.1	3.6	0.0	102000	99.
PEARS	SAN BENITO	2248	0.0	4.3	3.9	0.0	2248	99.
PEARS	SAN JOAQUIN	9320	27.0	4.5	4.1	0.0	9320	99.
PEARS	SANTA CLARA	2805	0.0	4.1	3.5	0.0	2805	99.
PEARS	SOLANO	20476	0.0	3.2	2.8	0.0	20476	99.
PEARS	SONOMA	877	0.0	3.1	2.8	0.0	877	99.
PEARS	SUTTER	6942	15.5	5.0	4.6	0.0	6942	99.
PEARS	TULARE	779	252.0	7.5	6.7	0.0	779	99.
PEARS	YOLO	5520	4.0	4.5	4.0	0.0	5520	99.
PEARS	YUBA	13470	13.0	4.7	4.3	0.0	13470	99.
PEARS	FRESNO-E	1456	298.5	7.1	6.5	0.0	1456	99.
PEARS	FRESNO-W	324	298.5	4.8	4.6	0.0	324	99.
	STATEWIDE	302853					302853	
	STATEWIDE % LOSS						NO DATA	
PISTACHIOS	FRESNO	0	236.0	7.2	6.7	0.0	0	99.
PISTACHIOS	KERN	20100	173.0	7.4	6.9	0.0	20100	99.
PISTACHIOS	KINGS	0	149.0	5.6	5.5	0.0	0	99.
PISTACHIOS	MADERA	9440	78.0	6.6	6.3	0.0	9440	99.
PISTACHIOS	MERCED	2020	78.0	6.6	6.3	0.0	2020	99.
PISTACHIOS	TULARE	1185	187.0	7.9	7.4	0.0	1185	99.
PISTACHIOS	FRESNO-E	291	236.0	7.2	6.7	0.0	291	99.
PISTACHIOS	FRESNO-W	65	236.0	4.8	4.8	0.0	65	99.
PISTACHIOS	KINGS-E	4016	149.0	5.6	5.5	0.0	4016	99.
PISTACHIOS	KINGS-W	4016	149.0	3.8	3.9	0.0	4016	99.
	STATEWIDE	41133					41133	
	STATEWIDE % LOSS						NO DATA	
PLUMS	EL DORADO	348	74.0	5.3	5.2	0.0	348	99.
PLUMS	FRESNO	0	313.0	6.3	5.8	0.0	0	99.
PLUMS	KERN	39300	203.5	6.5	5.9	0.0	39300	99.
PLUMS	KINGS	0	214.0	5.2	4.9	0.0	0	99.
PLUMS	MADERA	4866	127.0	5.8	5.4	0.0	4866	99.
PLUMS	MERCED	432	127.0	5.8	5.4	0.0	432	99.
PLUMS	PLACER	903	91.0	5.0	4.8	0.0	903	99.
PLUMS	RIVERSIDE	59	839.0	4.8	4.9	0.0	59	99.
PLUMS	SOLANO	67	0.0	3.0	2.7	0.0	67	99.

PLUMS	SUTTER	200	1.0	4.3	4.0	0.0			200	99.		
PLUMS	TULARE	72900	252.0	7.2	6.4	0.0			72900	99.		
PLUMS	FRESNO-E	103950	313.0	6.3	5.8	0.0			103950	99.		
PLUMS	FRESNO-W	1050	313.0	4.2	4.1	0.0			1050	99.		
PLUMS	KINGS-E	5437	214.0	5.2	4.9	0.0			5437	99.		
PLUMS	KINGS-W	2654	214.0	3.5	3.5	0.0			2654	99.		
	STATEWIDE	232166							232166			
	STATEWIDE % LOSS								NO DATA			
POTATOES	HUMBOLDT	7160	0.0	3.3	3.1	0.0			7160	99.		
POTATOES	KERN	416000	93.0	5.7	5.3	0.0			416000	99.		
POTATOES	MODOC	133735	6.0	5.5	5.1	0.0			133735	99.		
POTATOES	MONO	1445	0.0	5.2	5.4	0.0			1445	99.		
POTATOES	MONTEREY	26250	0.0	2.9	2.6	0.0			26250	99.		
POTATOES	RIVERSIDE	75059	458.0	6.3	5.9	0.0			75059	99.		
POTATOES	SAN DIEGO	8715	11.0	5.4	4.7	0.0			8715	99.		
POTATOES	SAN JOAQUIN	29400	18.5	4.3	3.9	0.0			29400	99.		
POTATOES	SISKIYOU	112480	0.0	4.6	4.3	0.0			112480	99.		
	STATEWIDE	810244							810244			
	STATEWIDE % LOSS								NO DATA			
PRUNES	AMADOR	172	74.0	5.8	5.8	0.0			172	99.		
PRUNES	BUTTE	15534	1.0	4.6	4.3	0.0			15534	99.		
PRUNES	COLUSA	5170	3.0	4.9	4.6	0.0			5170	99.		
PRUNES	FRESNO	0	298.5	6.9	6.3	0.0			0	99.		
PRUNES	GLENN	11958	1.0	4.6	4.3	0.0			11958	99.		
PRUNES	LAKE	180	0.0	3.8	3.6	0.0			180	99.		
PRUNES	MENDOCINO	290	0.0	3.2	3.1	0.0			290	99.		
PRUNES	MERCED	3690	120.0	6.3	5.9	0.0			3690	99.		
PRUNES	SAN BENITO	200	0.0	4.3	3.9	0.0			200	99.		
PRUNES	SANTA CLARA	3705	0.0	4.1	3.5	0.0			3705	99.		
PRUNES	SOLANO	3591	0.0	3.2	2.8	0.0			3591	99.		
PRUNES	SONOMA	3742	0.0	3.1	2.8	0.0			3742	99.		
PRUNES	SUTTER	36758	15.5	5.0	4.6	0.0			36758	99.		
PRUNES	TEHAMA	8780	3.5	4.7	4.3	0.0			8780	99.		
PRUNES	TULARE	11219	252.0	7.8	7.1	0.0			11219	99.		
PRUNES	YOLO	3960	4.0	4.5	4.0	0.0			3960	99.		
PRUNES	YUBA	12318	1.0	4.6	4.3	0.0			12318	99.		
PRUNES	FRESNO-E	3495	298.5	6.9	6.3	0.0			3495	99.		
PRUNES	FRESNO-W	35	298.5	4.6	4.5	0.0			35	99.		
	STATEWIDE	124797							124797			
	STATEWIDE % LOSS								NO DATA			
RICE	BUTTE	267000	1.0	4.6	4.3	4.9	4.4	1.8	280781	279222	271880	99.
RICE	COLUSA	357000	2.0	5.0	4.8	6.1	5.5	2.5	380310	377783	366051	99.
RICE	FRESNO	0	294.0	7.3	6.8	11.9	11.0	7.2	0	0	0	99.
RICE	GLENN	225473	0.0	5.2	4.8	6.5	5.8	2.7	241121	239447	231712	99.
RICE	KERN	2100	198.5	7.4	6.9	12.1	11.2	7.4	2389	2365	2268	99.
RICE	MERCED	31600	120.0	6.7	6.3	10.3	9.5	5.6	35236	34906	33487	99.
RICE	PLACER	44800	90.0	5.9	5.7	8.4	7.6	4.0	48908	48501	46675	99.
RICE	SACRAMENTO	33000	0.0	3.9	3.5	3.1	2.8	1.0	34060	33933	33325	99.
RICE	SAN JOAQUIN	13900	26.0	4.7	4.3	5.3	4.7	2.0	14674	14587	14182	99.
RICE	STANISLAUS	6510	51.0	5.3	5.2	6.8	6.1	2.9	6987	6936	6705	99.
RICE	SUTTER	255863	13.5	5.1	4.8	6.4	5.8	2.6	273395	271514	262814	99.
RICE	TEHAMA	7300	3.5	5.1	4.8	6.4	5.7	2.6	7796	7743	7496	99.
RICE	YOLO	76100	4.0	4.8	4.3	5.6	5.0	2.1	80580	80084	77767	99.
RICE	YUBA	93159	1.0	4.9	4.7	5.9	5.3	2.4	99051	98408	95416	99.
RICE	FRESNO-E	790	294.0	7.3	6.8	11.9	11.0	7.2	897	888	851	99.
RICE	FRESNO-W	18010	294.0	4.9	4.8	5.9	5.3	2.4	19144	19020	18444	99.
	STATEWIDE	1432605							1525329	1515337	1469073	
	STATEWIDE % LOSS								6.079	5.460	2.482	
SAFFLOWER	COLUSA	3825	0.0	4.7	4.5	0.0			3825			99.
SAFFLOWER	FRESNO	0	84.5	6.1	5.8	0.0			0			99.
SAFFLOWER	KINGS	0	2.0	4.5	4.3	0.0			0			99.
SAFFLOWER	MERCED	667	36.0	5.8	5.6	0.0			667			99.
SAFFLOWER	SACRAMENTO	4290	0.0	3.9	3.5	0.0			4290			99.

SAFFLOWER	SAN JOAQUIN	9130	4.0	4.8	4.4	0.0			9130			99.
SAFFLOWER	SAN LUIS OBISP	1944	0.0	4.0	3.6	0.0			1944			99.
SAFFLOWER	SANTA CLARA	1500	0.0	4.0	3.5	0.0			1500			99.
SAFFLOWER	SOLANO	2811	0.0	3.2	2.8	0.0			2811			99.
SAFFLOWER	SUTTER	1478	1.0	4.9	4.7	0.0			1478			99.
SAFFLOWER	YOLO	11500	4.0	4.4	3.9	0.0			11500			99.
SAFFLOWER	FRESNO-E	1285	84.5	6.1	5.8	0.0			1285			99.
SAFFLOWER	FRESNO-W	16815	84.5	4.1	4.2	0.0			16815			99.
SAFFLOWER	KINGS-E	7159	2.0	4.5	4.3	0.0			7159			99.
SAFFLOWER	KINGS-W	44344	2.0	3.1	3.1	0.0			44344			99.
SAFFLOWER	STATEWIDE	106748							106748			99.
	STATEWIDE % LOSS								NO DATA			99.
									0			99.
SILAGE-CORN	FRESNO	0	133.0	7.2	6.8	4.8			75904			99.
SILAGE-CORN	GLENN	75000	0.0	5.0	4.6	1.2			0			99.
SILAGE-CORN	KINGS	0	40.0	5.3	5.2	1.6			0			99.
SILAGE-CORN	LASSEN	1400	0.0	5.3	5.1	1.5			1421			99.
SILAGE-CORN	MADERA	150000	42.0	6.6	6.4	3.5			155508			99.
SILAGE-CORN	MERCED	735000	42.0	6.6	6.4	3.5			761991			99.
SILAGE-CORN	MONTEREY	12500	0.0	2.9	2.7	0.0			12505			99.
SILAGE-CORN	RIVERSIDE	39470	85.0	6.5	6.6	3.4			40868			99.
SILAGE-CORN	SACRAMENTO	187000	0.0	3.9	3.5	0.4			187707			99.
SILAGE-CORN	SAN BENITO	35190	0.0	4.5	4.1	0.8			35468			99.
SILAGE-CORN	SAN BERNARDINO	46600	1526.0	8.5	7.2	9.0			51211			99.
SILAGE-CORN	SAN DIEGO	990	13.0	5.5	4.8	1.8			1008			99.
SILAGE-CORN	SAN JOAQUIN	637000	26.0	4.7	4.3	0.9			642857			99.
SILAGE-CORN	SANTA BARBARA	24078	0.0	3.7	3.4	0.3			24153			99.
SILAGE-CORN	SISKIYOU	13200	0.0	4.6	4.3	0.8			13311			99.
SILAGE-CORN	SONOMA	10671	0.0	3.1	2.8	0.1			10680			99.
SILAGE-CORN	STANISLAUS	833000	51.0	5.3	5.2	1.5			845666			99.
SILAGE-CORN	SUTTER	59350	5.0	5.1	4.8	1.3			60108			99.
SILAGE-CORN	YUBA	60508	1.0	4.9	4.7	1.1			61207			99.
SILAGE-CORN	FRESNO-E	264400	133.0	7.2	6.8	4.8			277828			99.
SILAGE-CORN	FRESNO-W	135600	133.0	4.8	4.9	1.0			137013			99.
SILAGE-CORN	KINGS-E	182122	40.0	5.3	5.2	1.6			185022			99.
SILAGE-CORN	KINGS-W	22509	40.0	3.6	3.7	0.3			22567			99.
SILAGE-CORN	STATEWIDE	3525588							3604003			99.
	STATEWIDE % LOSS								2.176			99.
SPINACH	MONTEREY	23260	0.0	3.0	2.7	0.0	1.8		23260	23692		99.
SPINACH	RIVERSIDE	2172	94.0	4.1	3.6	3.8	8.1		2257	2364		99.
SPINACH	SANTA BARBARA	7014	0.5	3.4	3.0	0.0	3.9		7015	7298		99.
SPINACH	SANTA CLARA	840	0.0	3.9	3.6	0.0	7.4		840	907		99.
SPINACH	STANISLAUS	30400	0.0	2.8	2.3	0.0	0.4		30400	30511		99.
SPINACH	VENTURA	29625	100.0	5.1	4.4	4.0	14.3		30861	34558		99.
SPINACH	STATEWIDE	93311							94633	99330		99.
	STATEWIDE % LOSS								1.397	6.060		99.
STRAWBERRIES	FRESNO	0	25.5	4.6	4.1	0.0			0			99.
STRAWBERRIES	LOS ANGELES	6645	66.0	2.8	2.3	0.0			6645			99.
STRAWBERRIES	MONTEREY	101050	0.0	2.9	2.6	0.0			101050			99.
STRAWBERRIES	ORANGE	85251	127.0	4.0	3.3	0.0			85251			99.
STRAWBERRIES	RIVERSIDE	529	620.0	4.8	4.2	0.0			529			99.
STRAWBERRIES	SAN BERNARDINO	7330	559.3	4.5	3.9	0.0			7330			99.
STRAWBERRIES	SAN DIEGO	23513	146.0	4.5	4.0	0.0			23513			99.
STRAWBERRIES	SAN LUIS OBISP	6519	0.0	3.5	3.2	0.0			6519			99.
STRAWBERRIES	SANTA BARBARA	50678	0.0	3.0	2.7	0.0			50678			99.
STRAWBERRIES	SANTA CLARA	4935	-3.0	3.9	3.4	0.0			4935			99.
STRAWBERRIES	SANTA CRUZ	50043	0.0	3.1	2.6	0.0			50043			99.
STRAWBERRIES	VENTURA	81866	100.0	5.0	4.4	0.0			81866			99.
STRAWBERRIES	FRESNO-E	3260	25.5	4.6	4.1	0.0			3260			99.
STRAWBERRIES	FRESNO-W	0	25.5	3.1	3.0	0.0			0			99.
STRAWBERRIES	STATEWIDE	421619							421619			99.
	STATEWIDE % LOSS								NO DATA			99.
SUGAR BEETS	BUTTE	55980	0.0	3.9	3.6	0.0	0.0	4.8	55980	55980	58820	99.
SUGAR BEET	COLUSA	232500	0.0	4.9	4.6	0.0	0.0	9.3	232500	232500	256343	99.
SUGAR BEET	CONTRA COSTA	11900	2.0	4.2	3.9	0.0	0.0	6.2	11900	11900	12687	99.

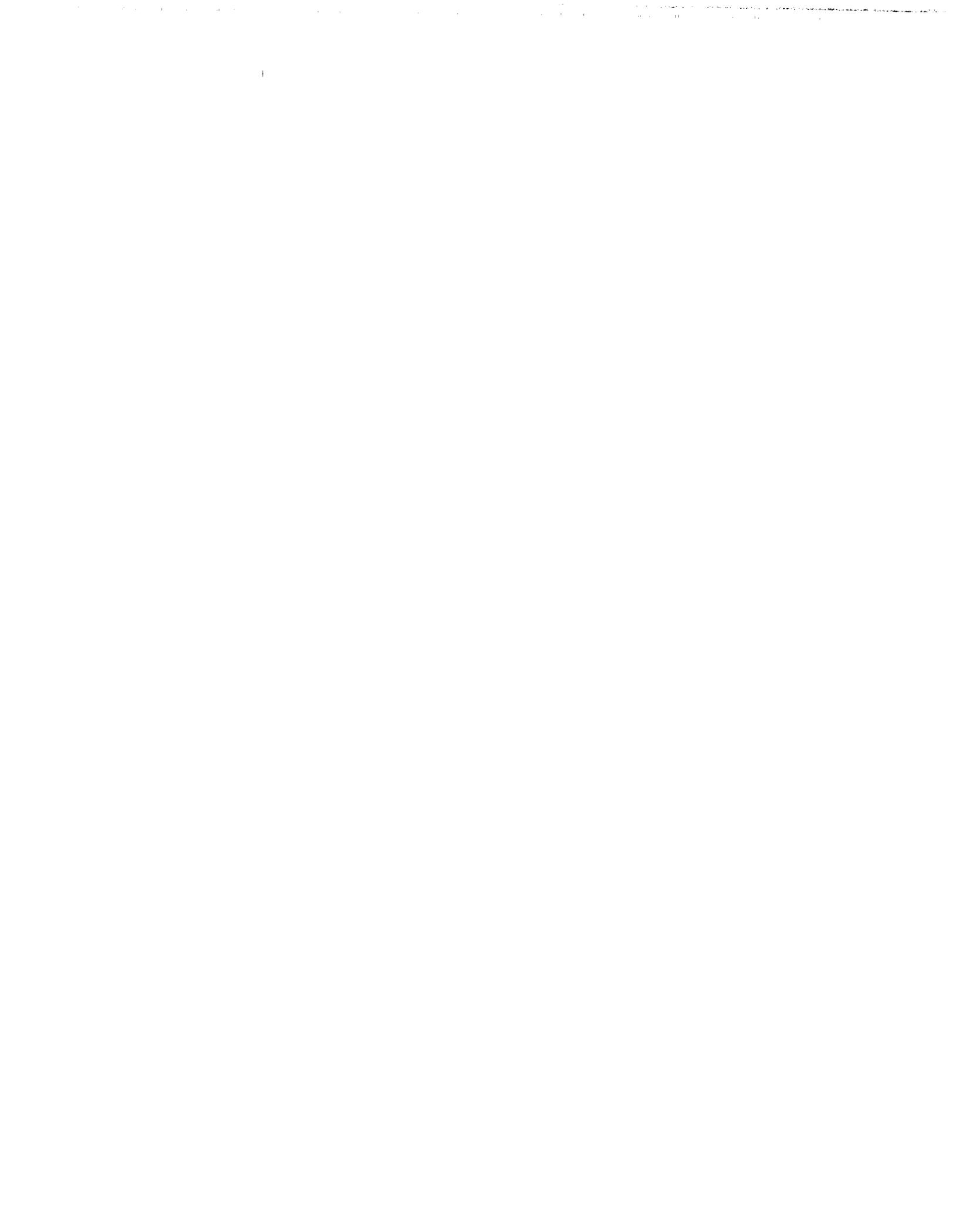
SUGAR BEETS	FRESNO	0	298.5	6.9	6.3	0.0	0.0	16.8	0	0	0	99.	
SUGAR BEETS	GLENN	156223	-4.0	5.0	4.6	0.0	0.0	9.3	156223	156223	172160	99.	
SUGAR BEETS	IMPERIAL	841920	-3.0	3.5	3.1	0.0	0.0	2.8	841920	841920	866087	99.	
SUGAR BEETS	KERN	292000	93.0	5.1	4.6	0.0	0.0	9.5	292000	292000	322575	99.	
SUGAR BEETS	KINGS	0	214.0	5.7	5.4	0.0	0.0	13.0	0	0	0	99.	
SUGAR BEETS	MADERA	62088	120.0	6.3	5.9	0.0	0.0	15.1	62088	62088	73134	99.	
SUGAR BEETS	MERCED	396000	120.0	6.3	5.9	0.0	0.0	15.1	396000	396000	466450	99.	
SUGAR BEETS	MONTEREY	217520	0.0	3.0	2.8	0.0	0.0	1.3	217520	217520	220350	99.	
SUGAR BEETS	SACRAMENTO	92400	-1.0	4.0	3.5	0.0	0.0	4.5	92400	92400	96772	99.	
SUGAR BEETS	SAN BENITO	32918	0.0	4.2	3.8	0.0	0.0	5.8	32918	32918	34946	99.	
SUGAR BEETS	SAN JOAQUIN	695000	28.5	4.5	4.1	0.0	0.0	6.9	695000	695000	746586	99.	
SUGAR BEETS	SANTA BARBARA	18191	0.0	3.3	3.2	0.0	0.0	2.9	18191	18191	18730	99.	
SUGAR BEETS	SANTA CLARA	8835	-2.0	4.0	3.6	0.0	0.0	4.7	8835	8835	9275	99.	
SUGAR BEETS	SOLANO	385981	0.0	3.1	2.7	0.0	0.0	0.9	385981	385981	389605	99.	
SUGAR BEETS	STANISLAUS	88000	51.0	5.1	4.8	0.0	0.0	10.3	88000	88000	98127	99.	
SUGAR BEETS	SUTTER	104984	0.0	3.9	3.6	0.0	0.0	4.8	104984	104984	110310	99.	
SUGAR BEETS	TEHAMA	32700	3.0	5.1	4.8	0.0	0.0	10.1	32700	32700	36391	99.	
SUGAR BEETS	TULARE	106000	252.0	7.8	7.1	0.0	0.0	20.4	106000	106000	133123	99.	
SUGAR BEETS	VENTURA	3729	3.0	5.4	4.8	0.0	0.0	10.3	3729	3729	4158	99.	
SUGAR BEETS	YOLO	199288	4.0	3.8	3.3	0.0	0.0	3.7	199288	199288	206894	99.	
SUGAR BEETS	FRESNO-E	107512	298.5	6.9	6.3	0.0	0.0	16.8	107512	107512	129200	99.	
SUGAR BEETS	FRESNO-W	604488	298.5	4.6	4.5	0.0	0.0	8.9	604488	604488	663240	99.	
SUGAR BEETS	KINGS-E	28017	214.0	5.7	5.4	0.0	0.0	13.0	28017	28017	32212	99.	
SUGAR BEETS	KINGS-W	17026	214.0	3.8	3.9	0.0	0.0	6.2	17026	17026	18152	99.	
	STATEWIDE	4791200							4791200	4791200	5176327		
	STATEWIDE % LOSS	0							0.000	0.000	7.440		
TOMATOES-FRESH	FRESNO	0	236.0	7.6	7.1	5.5			0			99.	
TOMATOES-FRESH	HUMBOLDT	263	-5.0	3.3	3.1	-0.1			263			99.	
TOMATOES-FRESH	IMPERIAL	8788	-1.0	4.6	4.3	0.0			8788			99.	
TOMATOES-FRESH	KINGS	0	40.0	5.2	5.0	0.9			0			99.	
TOMATOES-FRESH	MERCED	36538	42.0	6.3	6.1	1.0			36898			99.	
TOMATOES-FRESH	MONTEREY	51645	0.0	3.1	2.9	0.0			51645			99.	
TOMATOES-FRESH	ORANGE	4685	82.0	5.2	4.5	1.9			4776			99.	
TOMATOES-FRESH	RIVERSIDE	3641	-1.0	4.5	4.2	0.0			3641			99.	
TOMATOES-FRESH	SACRAMENTO	2160	0.0	3.9	3.5	0.0			2160			99.	
TOMATOES-FRESH	SAN BERNARDINO	35	1498.0	9.2	7.8	34.8			54			99.	
TOMATOES-FRESH	SAN DIEGO	53952	26.0	4.6	4.3	0.6			54279			99.	
TOMATOES-FRESH	SAN JOAQUIN	76400	26.0	4.7	4.3	0.6			76864			99.	
TOMATOES-FRESH	SANTA CLARA	4950	0.0	4.0	3.5	0.0			4950			99.	
TOMATOES-FRESH	STANISLAUS	38100	51.0	5.2	4.9	1.2			38556			99.	
TOMATOES-FRESH	SUTTER	1122	13.5	5.1	4.8	0.3			1126			99.	
TOMATOES-FRESH	TULARE	5350	78.0	7.5	7.0	1.8			5449			99.	
TOMATOES-FRESH	VENTURA	9164	30.0	5.5	4.9	0.7	0		9228			99.	
TOMATOES-FRESH	FRESNO-E	725	236.0	7.6	7.1	5.5			767			99.	
TOMATOES-FRESH	FRESNO-W	79875	236.0	5.1	5.1	5.5			84502	79875		99.	
TOMATOES-FRESH	KINGS-E	1304	40.0	5.2	5.0	0.9	0		1316			99.	
TOMATOES-FRESH	KINGS-W	16083	40.0	3.5	3.6	0.9			16204	16083		99.	
	STATEWIDE	394780							401498				
	STATEWIDE % LOSS	0							1.673				
TOMATOES-PROCE	COLUSA	330000	1.0	4.9	4.6	0.0	1.5	2.3	330075	335175	337907	359646	99.
TOMATOES-PROCE	CONTRA COSTA	196561	2.0	3.8	3.2	0.0	0.5	-9.1	196651	197460	196561	202033	99.
TOMATOES-PROCE	FRESNO	0	236.0	7.6	7.1	5.4	8.8	22.6	0	0	0	0	99.
TOMATOES-PROCE	IMPERIAL	110783	-1.0	4.6	4.3	0.0	1.2	0.1	110783	112115	110866	119306	99.
TOMATOES-PROCE	KERN	81000	198.5	7.4	6.9	4.5	7.9	20.8	84840	87941	102251	97817	99.
TOMATOES-PROCE	KINGS	0	188.0	5.9	5.7	4.3	3.2	11.5	0	0	0	0	99.
TOMATOES-PROCE	MERCED	187000	120.0	6.7	6.3	2.7	5.3	16.2	192260	197532	223078	219884	99.
TOMATOES-PROCE	MONTEREY	46000	0.0	2.8	2.5	0.0	0.0	-14.4	46000	46004	46000	46054	99.
TOMATOES-PROCE	RIVERSIDE	15040	-1.0	4.6	4.3	0.0	1.2	0.1	15040	15221	15051	16197	99.
TOMATOES-PROCE	SACRAMENTO	153000	0.0	3.9	3.5	0.0	0.5	-6.3	153000	153804	153000	159446	99.
TOMATOES-PROCE	SAN BENITO	197972	0.0	4.2	3.8	0.0	0.8	-4.1	197972	199599	197972	208617	99.
TOMATOES-PROCE	SAN JOAQUIN	565000	26.0	4.7	4.3	0.6	1.3	0.2	568369	572327	566341	608984	99.
TOMATOES-PROCE	SANTA BARBARA	23504	0.0	4.0	3.7	0.0	0.6	-5.3	23504	23645	23504	24615	99.
TOMATOES-PROCE	SANTA CLARA	101500	0.0	4.0	3.5	0.0	0.6	-6.2	101500	102154	101500	105820	99.
TOMATOES-PROCE	SOLANO	594750	0.0	3.1	2.8	0.0	0.1	-12.0	594750	595552	594750	602555	99.
TOMATOES-PROCE	STANISLAUS	310000	51.0	4.2	4.1	1.2	0.8	-1.9	313647	312548	310000	330359	99.
TOMATOES-PROCE	SUTTER	491381	13.5	5.1	4.8	0.3	1.8	3.7	492898	500442	510341	539448	99.

TOMATOES-PROCE	VENTURA	76277	27.0	5.8	5.2	0.6	3.0	7.0	10.5	76749	78646	82046	85244	99.
TOMATOES-PROCE	YOLO	1202000	4.0	4.6	4.1	0.1	1.2	-1.8	6.2	1203097	1216038	1202000	1282013	99.
TOMATOES-PROCE	FRESNO-E	18315	236.0	7.6	7.1	5.4	8.8	22.6	18.1	19357	20073	23652	22351	99.
TOMATOES-PROCE	FRESNO-W	2016685	236.0	5.1	5.1	5.4	1.9	6.3	10.2	2131370	2055123	2152363	2244912	99.
TOMATOES-PROCE	KINGS-E	3002	188.0	5.9	5.7	4.3	3.2	11.5	12.7	3136	3103	3391	3438	99.
TOMATOES-PROCE	KINGS-W	37021	188.0	4.0	4.1	4.3	0.6	-1.7	6.3	38679	37240	37021	39502	99.
	STATEWIDE	6756791								6893677	6861742	6989595	7318241	
	STATEWIDE % LOSS									1.986	1.530	3.331	7.672	
														99.
WALNUTS	ALAMEDA	147	45.0	4.7	4.0	0.0				147				99.
WALNUTS	AMADOR	317	74.0	6.0	6.0	0.0				317				99.
WALNUTS	BUTTE	19221	1.0	4.7	4.5	0.0				19221				99.
WALNUTS	CALAVERAS	156	74.0	6.0	6.0	0.0				156				99.
WALNUTS	COLUSA	5415	2.0	5.0	4.8	0.0				5415				99.
WALNUTS	CONTRA COSTA	1350	2.0	3.8	3.2	0.0				1350				99.
WALNUTS	EL DORADO	165	74.0	6.0	6.0	0.0				165				99.
WALNUTS	FRESNO	0	294.0	7.0	6.5	0.0				0				99.
WALNUTS	GLENN	3920	1.0	4.6	4.3	0.0				3920				99.
WALNUTS	KERN	2070	198.5	7.2	6.7	0.0				2070				99.
WALNUTS	KINGS	0	188.0	5.7	5.5	0.0				0				99.
WALNUTS	LAKE	5178	0.0	3.8	3.6	0.0				5178				99.
WALNUTS	MADERA	1572	120.0	6.5	6.1	0.0				1572				99.
WALNUTS	MENDOCINO	36	0.0	3.2	3.1	0.0				36				99.
WALNUTS	MERCED	9610	120.0	6.5	6.1	0.0				9610				99.
WALNUTS	MONTEREY	345	0.0	2.9	2.7	0.0				345				99.
WALNUTS	NAPA	135	0.0	3.5	3.1	0.0				135				99.
WALNUTS	PLACER	608	91.0	5.7	5.5	0.0				608				99.
WALNUTS	RIVERSIDE	150	820.0	5.2	5.4	0.0				150				99.
WALNUTS	SACRAMENTO	192	0.0	3.8	3.4	0.0				192				99.
WALNUTS	SAN BENITO	3939	0.0	4.4	4.0	0.0				3939				99.
WALNUTS	SAN JOAQUIN	23500	27.5	4.7	4.3	0.0				23500				99.
WALNUTS	SAN LUIS OBISP	1527	0.0	3.9	3.5	0.0				1527				99.
WALNUTS	SANTA BARBARA	577	0.0	4.1	3.8	0.0				577				99.
WALNUTS	SANTA CLARA	1286	0.0	4.0	3.6	0.0				1286				99.
WALNUTS	SHASTA	1430	6.0	4.8	4.5	0.0				1430				99.
WALNUTS	SOLANO	2364	0.0	3.1	2.8	0.0				2364				99.
WALNUTS	SONOMA	65	0.0	3.1	2.8	0.0				65				99.
WALNUTS	STANISLAUS	29500	51.0	5.2	5.0	0.0				29500				99.
WALNUTS	SUTTER	12987	13.5	5.1	4.8	0.0				12987				99.
WALNUTS	TEHAMA	13990	3.5	4.9	4.6	0.0				13990				99.
WALNUTS	TULARE	29100	226.0	7.8	7.3	0.0				29100				99.
WALNUTS	VENTURA	88	126.5	6.9	6.1	0.0				88				99.
WALNUTS	YOLO	7670	4.0	4.5	4.0	0.0				7670				99.
WALNUTS	YUBA	7304	1.0	4.7	4.5	0.0				7304				99.
WALNUTS	FRESNO-E	2339	294.0	7.0	6.5	0.0				2339				99.
WALNUTS	FRESNO-W	521	294.0	4.7	4.7	0.0				521				99.
WALNUTS	KINGS-E	7879	188.0	5.7	5.5	0.0				7879				99.
WALNUTS	KINGS-W	104	188.0	3.8	3.9	0.0				104				99.
	STATEWIDE	196757								196757				
	STATEWIDE % LOSS									NO DATA				
														99.
WATERMELONS	FRESNO	0	133.0	6.8	6.4	40.2				0				99.
WATERMELONS	KERN	50600	91.5	7.0	6.6	42.9				88577				99.
WATERMELONS	MERCED	23100	42.0	6.3	6.1	35.8				35979				99.
WATERMELONS	RIVERSIDE	20112	571.0	7.0	6.9	42.9				35207				99.
WATERMELONS	SAN JOAQUIN	25500	20.0	4.9	4.6	22.0				32707				99.
WATERMELONS	STANISLAUS	13600	25.0	5.1	5.0	24.1				17925				99.
WATERMELONS	SUTTER	5940	5.0	5.0	4.8	22.9				7708				99.
WATERMELONS	FRESNO-E	323	133.0	6.8	6.4	40.2				540				99.
WATERMELONS	FRESNO-W	4807	133.0	4.5	4.6	18.1				5873				99.
	STATEWIDE	143982								224516				
	STATEWIDE % LOSS									35.870				
WHEAT	ALAMEDA	1748	6.0	3.1	2.6	0.0	0.2	6.6		1748	1751	1871		99.
WHEAT	AMADOR	439	5.0	3.7	3.6	0.0	0.7	17.5		439	442	532		99.
WHEAT	BUTTE	26250	-1.0	3.4	3.1	0.0	0.4	11.5		26250	26355	29675		99.
WHEAT	COLUSA	60000	-1.0	3.1	2.8	0.0	0.2	6.9		60000	60125	64460		99.

WHEAT	CONTRA COSTA	7230	2.0	2.5	2.1	0.0	-0.1	-5.0	7230	7230	7230	99.
WHEAT	FRESNO	0	20.5	4.3	4.0	0.0	1.4	26.1	0	0	0	99.
WHEAT	GLENN	60000	-1.0	3.1	2.8	0.0	0.2	6.9	60000	60125	64460	99.
WHEAT	IMPERIAL	230505	-3.0	2.9	2.5	0.0	0.1	2.6	230505	230665	236675	99.
WHEAT	KERN	123000	13.5	4.7	4.3	0.0	1.9	31.0	123000	125434	178374	99.
WHEAT	KINGS	0	2.0	3.8	3.5	0.0	0.8	18.3	0	0	0	99.
WHEAT	LAKE	500	0.0	2.7	2.6	0.0	0.0	-0.4	500	500	500	99.
WHEAT	LASSEN	900	5.0	5.2	4.9	0.0	2.9	37.6	900	927	1442	99.
WHEAT	LOS ANGELES	548	202.0	4.3	4.0	0.0	1.3	25.1	548	555	731	99.
WHEAT	MADERA	58420	10.0	4.1	3.9	0.0	1.1	23.1	58420	59082	75938	99.
WHEAT	MERCED	30300	10.0	4.1	3.9	0.0	1.1	23.1	30300	30644	39386	99.
WHEAT	MODOC	6980	0.0	4.7	4.4	0.0	1.9	30.8	6980	7116	10084	99.
WHEAT	MONTEREY	2895	0.0	3.0	2.7	0.0	0.1	4.8	2895	2899	3041	99.
WHEAT	PLACER	930	4.0	4.1	3.8	0.0	1.1	22.3	930	940	1198	99.
WHEAT	RIVERSIDE	81364	187.4	4.3	3.8	0.0	1.3	25.2	81364	82444	108799	99.
WHEAT	SACRAMENTO	40000	-3.0	2.7	2.5	0.0	0.0	-0.4	40000	40000	40000	99.
WHEAT	SAN BENITO	6120	0.0	3.8	3.5	0.0	0.7	17.8	6120	6165	7447	99.
WHEAT	SAN DIEGO	1140	6.0	4.3	3.7	0.0	1.4	26.5	1140	1157	1550	99.
WHEAT	SAN JOAQUIN	115000	4.0	2.8	2.5	0.0	0.0	1.7	115000	115050	116970	99.
WHEAT	SAN LUIS OBISP	31360	0.0	3.0	2.7	0.0	0.2	5.7	31360	31412	33249	99.
WHEAT	SANTA BARBARA	4623	0.0	3.7	3.5	0.0	0.7	17.0	4623	4655	5572	99.
WHEAT	SANTA CLARA	8800	0.0	3.8	3.5	0.0	0.7	17.8	8800	8865	10708	99.
WHEAT	SHASTA	3240	0.0	3.4	3.1	0.0	0.4	12.0	3240	3254	3684	99.
WHEAT	SISKIYOU	34555	0.0	4.3	4.0	0.0	1.3	25.5	34555	35023	46381	99.
WHEAT	SOLANO	111789	0.0	2.4	2.0	0.0	-0.1	-6.4	111789	111789	111789	99.
WHEAT	STANISLAUS	13100	0.0	3.3	3.1	0.0	0.4	11.0	13100	13149	14726	99.
WHEAT	SUTTER	82371	0.0	3.1	2.8	0.0	0.2	6.9	82371	82543	88494	99.
WHEAT	TEHAMA	8190	0.0	3.1	2.8	0.0	0.2	6.9	8190	8207	8799	99.
WHEAT	TULARE	80000	20.0	5.4	4.7	0.0	3.3	39.6	80000	82715	132396	99.
WHEAT	YOLO	137000	0.0	3.4	3.0	0.0	0.4	11.4	137000	137535	154584	99.
WHEAT	YUBA	4912	0.0	3.1	2.8	0.0	0.2	6.9	4912	4922	5277	99.
WHEAT	FRESNO-E	54684	20.5	4.3	4.0	0.0	1.4	26.1	54684	55455	73955	99.
WHEAT	FRESNO-W	141316	20.5	2.9	2.9	0.0	0.1	3.5	141316	141452	146474	99.
WHEAT	KINGS-E	21309	2.0	3.8	3.5	0.0	0.8	18.3	21309	21474	26076	99.
WHEAT	KINGS-W	42301	2.0	2.5	2.5	0.0	-0.1	-3.3	42301	42301	42301	99.
STATEWIDE	STATEWIDE	1633819							1633819	1644357	1894828	
STATEWIDE % LOSS	STATEWIDE % LOSS								0.000	0.641	13.775	
WHEAT-DRYLAND	ALAMEDA	4350	6.0	3.1	2.6	0.0	0.2	6.6	4350	4359	4656	99.
WHEAT-DRYLAND	BUTTE	4800	-1.0	3.4	3.1	0.0	0.4	11.5	4800	4819	5426	99.
WHEAT-DRYLAND	COLUSA	13200	-1.0	3.1	2.8	0.0	0.2	6.9	13200	13228	14181	99.
WHEAT-DRYLAND	CONTRA COSTA	1500	2.0	2.5	2.1	0.0	-0.1	-5.0	1500	1500	1500	99.
WHEAT-DRYLAND	FRESNO	0	20.5	4.3	4.0	0.0	1.4	26.1	0	0	0	99.
WHEAT-DRYLAND	GLENN	10650	-1.0	3.2	2.8	0.0	0.2	8.0	10650	10676	11572	99.
WHEAT-DRYLAND	IMPERIAL	1680	-3.0	2.9	2.5	0.0	0.1	2.6	1680	1681	1725	99.
WHEAT-DRYLAND	KERN	3300	13.5	4.2	3.8	0.0	1.3	24.6	3300	3342	4380	99.
WHEAT-DRYLAND	KINGS	0	2.0	3.7	3.4	0.0	0.7	16.9	0	0	0	99.
WHEAT-DRYLAND	LAKE	900	0.0	2.5	2.4	0.0	-0.1	-3.3	900	900	900	99.
WHEAT-DRYLAND	LASSEN	900	5.0	5.2	4.9	0.0	2.9	37.6	900	927	1442	99.
WHEAT-DRYLAND	LOS ANGELES	3300	202.0	4.3	4.0	0.0	1.3	25.1	3300	3343	4404	99.
WHEAT-DRYLAND	MONTEREY	1800	0.0	3.0	2.7	0.0	0.1	4.8	1800	1802	1891	99.
WHEAT-DRYLAND	PLACER	1050	4.0	3.4	3.1	0.0	0.4	11.5	1050	1054	1187	99.
WHEAT-DRYLAND	RIVERSIDE	10230	187.4	4.3	3.8	0.0	1.3	25.2	10230	10366	13679	99.
WHEAT-DRYLAND	SACRAMENTO	9600	-3.0	2.7	2.5	0.0	0.0	-0.4	9600	9600	9600	99.
WHEAT-DRYLAND	SAN BENITO	5400	0.0	4.3	4.0	0.0	1.4	25.8	5400	5475	7275	99.
WHEAT-DRYLAND	SAN DIEGO	600	6.0	4.3	3.7	0.0	1.4	26.5	600	609	816	99.
WHEAT-DRYLAND	SAN JOAQUIN	17100	4.0	2.8	2.5	0.0	0.0	1.7	17100	17107	17393	99.
WHEAT-DRYLAND	SAN LUIS OBISP	9600	0.0	3.0	2.7	0.0	0.2	5.7	9600	9616	10178	99.
WHEAT-DRYLAND	SANTA BARBARA	5340	0.0	3.7	3.5	0.0	0.7	17.0	5340	5377	6437	99.
WHEAT-DRYLAND	SANTA CLARA	900	0.0	3.8	3.5	0.0	0.7	17.8	900	907	1095	99.
WHEAT-DRYLAND	SISKIYOU	14850	0.0	4.3	4.0	0.0	1.3	25.5	14850	15051	19932	99.
WHEAT-DRYLAND	SOLANO	33900	0.0	2.8	2.3	0.0	0.0	0.6	33900	33905	34092	99.
WHEAT-DRYLAND	SONOMA	1800	0.0	2.2	1.9	0.0	-0.2	-10.7	1800	1800	1800	99.
WHEAT-DRYLAND	SUTTER	30000	-1.0	3.2	3.0	0.0	0.3	8.5	30000	30080	32782	99.
WHEAT-DRYLAND	TEHAMA	1650	-1.0	3.1	2.8	0.0	0.2	6.9	1650	1653	1773	99.
WHEAT-DRYLAND	TULARE	8550	20.0	4.9	4.2	0.0	2.3	34.0	8550	8755	12949	99.
WHEAT-DRYLAND	YOLO	45450	0.0	3.4	3.0	0.0	0.4	11.4	45450	45628	51283	99.

GRAPEFRUIT	STATEWIDE % LOSS	NO DATA			
GRAPES-RAISIN	STATEWIDE % LOSS	32.119	26.492		
GRAPES-TABLE	STATEWIDE % LOSS	31.524	25.826		
GRAPES-WINE	STATEWIDE % LOSS	23.519	19.126		
HONEYDEW	STATEWIDE % LOSS	23.058			
LEMONS	STATEWIDE % LOSS	7.837			
LETTUCE	STATEWIDE % LOSS	0.000	1.384	0.003	0.000
LIMAS-GREEN(PRO	STATEWIDE % LOSS	NO DATA			
NECTARINES	STATEWIDE % LOSS	NO DATA			
OATS	STATEWIDE % LOSS	NO DATA			
OLIVES	STATEWIDE % LOSS	17.236	3.901		
ONIONS-DRY(DEHY	STATEWIDE % LOSS	21.464	4.501		
ONIONS-DRY(FRES	STATEWIDE % LOSS	21.331	4.804		
ONIONS-DRY(TOTA	STATEWIDE % LOSS	18.961	54.276	9.413	
ORANGES	STATEWIDE % LOSS	NO DATA			
PASTURE-IRR	STATEWIDE % LOSS	NO DATA			
PEACHES	STATEWIDE % LOSS	NO DATA			
PEARS	STATEWIDE % LOSS	NO DATA			
PISTACHIOS	STATEWIDE % LOSS	NO DATA			
PLUMS	STATEWIDE % LOSS	NO DATA			
POTATOES	STATEWIDE % LOSS	NO DATA			
PRUNES	STATEWIDE % LOSS	6.079	5.460	2.482	
RICE	STATEWIDE % LOSS	NO DATA			
SAFFLOWER	STATEWIDE % LOSS	2.176			
SILAGE-CORN	STATEWIDE % LOSS	1.397	6.060		
SPINACH	STATEWIDE % LOSS	NO DATA			
STRAWBERRIES	STATEWIDE % LOSS	0.000	0.000	7.440	
SUGAR BEETS	STATEWIDE % LOSS	1.673			
TOMATOES-FRESH	STATEWIDE % LOSS	1.986	1.530	3.331	7.672
TOMATOES-PROCES	STATEWIDE % LOSS	NO DATA			
WALNUTS	STATEWIDE % LOSS	35.870			
WATERMELONS	STATEWIDE % LOSS	0.000	0.641	13.775	
WHEAT	STATEWIDE % LOSS	0.000	0.451	11.145	
WHEAT-DRYLAND	STATEWIDE % LOSS	0.000	0.681	14.413	
WHEAT-IRRIGATED	STATEWIDE % LOSS	28.852	23.632		
TOTAL GRAPES		20.121			
TOTAL ONIONS		0.000	0.642	13.826	
TOTAL WHEAT					

D-2 Raw Data Sheets for 1986 Assessment - Equations #5-#8, PST



ALFALFA SEED	KINGS-W	7480	188.0	3.5	3.5
	STATEWIDE	29976			
	STATEWIDE % LOSS				
ALMONDS	BUTTE	12719	1.0	4.4	4.2
ALMONDS	COLUSA	4025	1.0	4.4	4.2
ALMONDS	CONTRA COSTA	10	2.0	3.5	3.0
ALMONDS	DEL NORTE	3000	-2.0	3.2	3.1
ALMONDS	FRESNO	0	308.5	6.3	5.8
ALMONDS	GLENN	4289	1.0	4.4	4.2
ALMONDS	KERN	40332	200.0	6.6	6.0
ALMONDS	KINGS	0	188.0	5.1	4.9
ALMONDS	LAKE	10	0.0	3.5	3.4
ALMONDS	MADERA	8131	127.0	5.8	5.5
ALMONDS	MERCED	17000	127.0	5.8	5.5
ALMONDS	SAN JOAQUIN	7290	8.0	3.8	3.4
ALMONDS	SAN LUIS OBISP	5	0.0	3.7	3.3
ALMONDS	SOLANO	367	0.0	3.0	2.6
ALMONDS	STANISLAUS	16611	51.0	4.6	4.4
ALMONDS	SUTTER	629	1.0	4.4	4.2
ALMONDS	TEHAMA	1350	1.0	4.4	4.2
ALMONDS	TULARE	4210	226.0	7.2	6.5
ALMONDS	YOLO	1967	4.0	4.4	3.9
ALMONDS	YUBA	468	1.0	4.4	4.2
ALMONDS	FRESNO-E	7097	308.5	6.3	5.8
ALMONDS	FRESNO-W	5203	308.5	4.3	4.2
ALMONDS	KINGS-E	498	188.0	5.1	4.9
ALMONDS	KINGS-W	975	188.0	3.5	3.5
	STATEWIDE	136186			
	STATEWIDE % LOSS				

NO DATA

APPLES	BUTTE	1684	1.0	4.6	4.3
APPLES	CALAVERAS	450	51.0	5.1	4.8
APPLES	EL DORADO	7600	74.0	5.8	5.8
APPLES	HUMBOLDT	217	0.0	3.2	3.1
APPLES	KERN	37600	202.0	7.0	6.4
APPLES	MADERA	6768	120.0	6.3	5.9
APPLES	MARIPOSA	540	180.0	8.2	8.4
APPLES	MENDOCINO	7500	0.0	3.2	3.1
APPLES	MONTEREY	6190	0.0	3.0	2.7
APPLES	NEVADA	197	74.0	5.8	5.8
APPLES	PLACER	331	91.0	5.5	5.3
APPLES	RIVERSIDE	10	839.0	5.3	5.5
APPLES	SAN BENITO	6616	0.0	4.4	4.0
APPLES	SAN BERNARDINO	885	2707.0	9.3	8.7
APPLES	SAN DIEGO	129	22.0	5.5	4.7
APPLES	SAN JOAQUIN	14000	28.5	4.5	4.1
APPLES	SAN LUIS OBISP	2243	0.0	4.0	3.6
APPLES	SANTA CRUZ	75793	0.0	3.2	2.9
APPLES	SISKIYOU	97	0.0	4.4	4.1
APPLES	SONOMA	46104	0.0	3.1	2.8
APPLES	STANISLAUS	2020	51.0	5.1	4.8
APPLES	SUTTER	4180	15.5	5.0	4.6
APPLES	TUOLUMNE	243	51.0	5.1	4.8
	STATEWIDE	221396			
	STATEWIDE % LOSS				

NO DATA

APRICOTS	CONTRA COSTA	3010	2.0	3.5	3.0
APRICOTS	FRESNO	0	313.0	6.3	5.8
APRICOTS	KERN	1900	203.5	6.5	5.9
APRICOTS	KINGS	0	214.0	5.2	4.9
APRICOTS	MERCED	4000	127.0	5.8	5.4
APRICOTS	RIVERSIDE	30	1447.0	6.8	6.2
APRICOTS	SAN BENITO	11609	0.0	4.3	3.9
APRICOTS	SAN JOAQUIN	18600	27.5	4.3	3.9
APRICOTS	SANTA CLARA	1490	-2.0	4.1	3.5

APRICOTS	SOLANO	785	0.0	3.0	2.7	99.
APRICOTS	STANISLAUS	22200	51.0	4.6	4.4	99.
APRICOTS	TULARE	531	252.0	7.2	6.4	99.
APRICOTS	YOLO	321	4.0	4.3	3.8	99.
APRICOTS	FRESNO-E	883	313.0	6.3	5.8	99.
APRICOTS	FRESNO-W	835	313.0	4.2	4.1	99.
APRICOTS	KINGS-E	835	214.0	5.2	4.9	99.
APRICOTS	KINGS-W	408	214.0	3.5	3.5	99.
	STATEWIDE	67437				
	STATEWIDE % LOSS					NO DATA
ASPARAGUS	CONTRA COSTA	3063	2.0	4.5	4.1	99.
ASPARAGUS	IMPERIAL	5673	0.0	4.5	4.3	99.
ASPARAGUS	KERN	1710	343.0	6.7	6.0	99.
ASPARAGUS	MONTEREY	8805	0.0	3.1	2.8	99.
ASPARAGUS	ORANGE	2011	160.0	4.8	4.1	99.
ASPARAGUS	RIVERSIDE	6199	501.0	5.4	5.5	99.
ASPARAGUS	SACRAMENTO	1100	-1.0	3.9	3.5	99.
ASPARAGUS	SAN JOAQUIN	26300	28.0	4.3	3.8	99.
ASPARAGUS	SOLANO	292	0.0	3.0	2.6	99.
ASPARAGUS	YOLO	865	4.0	4.3	3.8	99.
	STATEWIDE	56018				
	STATEWIDE % LOSS					NO DATA
AVOCADOS	FRESNO	0	298.5	6.9	6.3	99.
AVOCADOS	LOS ANGELES	141	561.0	6.5	5.1	99.
AVOCADOS	ORANGE	5236	96.0	5.1	4.4	99.
AVOCADOS	RIVERSIDE	15240	1038.7	7.2	6.3	99.
AVOCADOS	SAN BERNARDINO	510	2707.0	9.3	8.7	99.
AVOCADOS	SAN DIEGO	132480	22.0	5.5	4.7	99.
AVOCADOS	SAN LUIS OBISP	3471	-1.0	3.8	3.5	99.
AVOCADOS	SANTA BARBARA	13159	1.0	4.6	4.1	99.
AVOCADOS	SANTA CRUZ	50	0.0	3.1	2.8	99.
AVOCADOS	TULARE	3310	252.0	8.0	7.3	99.
AVOCADOS	VENTURA	35855	130.0	6.9	6.1	99.
AVOCADOS	FRESNO-E	960	298.5	6.9	6.3	99.
AVOCADOS	FRESNO-W	0	298.5	4.6	4.5	99.
	STATEWIDE	210412				
	STATEWIDE % LOSS					NO DATA
BARLEY	ALAMEDA	665	6.0	3.1	2.6	99.
BARLEY	AMADOR	148	5.0	3.8	3.6	99.
BARLEY	BUTTE	6750	-1.0	3.1	2.8	99.
BARLEY	COLUSA	4500	-1.0	3.1	2.8	99.
BARLEY	CONTRA COSTA	1380	2.0	2.5	2.0	99.
BARLEY	FRESNO	0	21.0	4.4	4.0	99.
BARLEY	GLENN	4000	-1.0	3.1	2.8	99.
BARLEY	IMPERIAL	1002	-3.0	3.6	3.3	99.
BARLEY	KERN	56500	13.5	4.2	3.7	99.
BARLEY	KINGS	0	2.0	3.8	3.4	99.
BARLEY	LAKE	200	0.0	2.5	2.4	99.
BARLEY	LASSEN	3288	5.0	5.2	4.9	99.
BARLEY	LOS ANGELES	2389	202.0	4.1	3.8	99.
BARLEY	MADERA	11590	10.0	4.2	3.9	99.
BARLEY	MERCED	17300	10.0	4.2	3.9	99.
BARLEY	MODOC	40745	0.0	4.7	4.4	99.
BARLEY	MONTEREY	34000	0.0	3.1	2.7	99.
BARLEY	ORANGE	3640	113.0	3.8	3.2	99.
BARLEY	RIVERSIDE	17410	337.0	4.3	3.8	99.
BARLEY	SACRAMENTO	4760	-3.0	2.6	2.3	99.
BARLEY	SAN BENITO	9700	0.0	3.8	3.5	99.
BARLEY	SAN BERNARDINO	2730	294.5	4.3	3.7	99.
BARLEY	SAN DIEGO	2683	124.0	4.3	3.8	99.
BARLEY	SAN JOAQUIN	12900	4.0	2.7	2.3	99.
BARLEY	SAN LUIS OBISP	91300	0.0	3.1	2.7	99.
BARLEY	SAN MATEO	275	0.0	2.0	1.8	99.

BARLEY	SANTA BARBARA	5322	0.0	3.5	3.3	99.
BARLEY	SANTA CLARA	2340	0.0	3.8	3.5	99.
BARLEY	SHASTA	1800	2.0	5.3	5.0	99.
BARLEY	SISKIYOU	73396	0.0	4.7	4.4	99.
BARLEY	SOLANO	17769	0.0	2.2	1.9	99.
BARLEY	STANISLAUS	4850	0.0	3.0	2.7	99.
BARLEY	SUTTER	11520	-1.0	3.1	2.8	99.
BARLEY	TEHAMA	1600	-1.0	3.1	2.8	99.
BARLEY	TULARE	37400	20.0	5.0	4.2	99.
BARLEY	YOLO	9100	0.0	3.3	2.9	99.
BARLEY	FRESNO-E	17689	21.0	4.4	4.0	99.
BARLEY	FRESNO-W	45711	21.0	3.0	2.9	99.
BARLEY	KINGS-E	32411	2.0	3.8	3.4	99.
BARLEY	KINGS-W	64337	2.0	2.5	2.4	99.
	STATEWIDE	655100				
	STATEWIDE % LOSS					

BARLEY-DRYLAND	ALAMEDA	1200	6.0	3.1	2.6	99.
BARLEY-DRYLAND	AMADOR	144	5.0	3.8	3.6	99.
BARLEY-DRYLAND	BUTTE	5952	-1.0	3.1	2.8	99.
BARLEY-DRYLAND	COLUSA	3240	-1.0	3.1	2.8	99.
BARLEY-DRYLAND	CONTRA COSTA	1080	2.0	2.5	2.0	99.
BARLEY-DRYLAND	FRESNO	0	21.0	4.4	4.0	99.
BARLEY-DRYLAND	GLENN	6624	-1.0	3.1	2.8	99.
BARLEY-DRYLAND	KERN	15120	13.5	4.2	3.7	99.
BARLEY-DRYLAND	KINGS	0	2.0	3.8	3.4	99.
BARLEY-DRYLAND	LASSEN	240	5.0	5.2	4.9	99.
BARLEY-DRYLAND	LOS ANGELES	8640	202.0	4.1	3.8	99.
BARLEY-DRYLAND	MADERA	7200	10.0	4.2	3.9	99.
BARLEY-DRYLAND	MARIN	384	0.0	1.9	1.6	99.
BARLEY-DRYLAND	MENDOCINO	384	-3.0	2.9	3.0	99.
BARLEY-DRYLAND	MERCED	2832	10.0	4.2	3.9	99.
BARLEY-DRYLAND	MODOC	1440	0.0	4.7	4.4	99.
BARLEY-DRYLAND	MONO	96	3.0	5.9	5.9	99.
BARLEY-DRYLAND	MONTEREY	24552	0.0	3.1	2.7	99.
BARLEY-DRYLAND	NAPA	288	0.0	2.6	2.2	99.
BARLEY-DRYLAND	ORANGE	3648	113.0	3.8	3.2	99.
BARLEY-DRYLAND	RIVERSIDE	6720	337.0	4.3	3.8	99.
BARLEY-DRYLAND	SACRAMENTO	2952	-3.0	2.6	2.3	99.
BARLEY-DRYLAND	SAN BENITO	6216	0.0	3.8	3.5	99.
BARLEY-DRYLAND	SAN BERNARDINO	1008	292.3	4.5	4.0	99.
BARLEY-DRYLAND	SAN DIEGO	1368	6.5	4.3	3.7	99.
BARLEY-DRYLAND	SAN JOAQUIN	1824	4.0	2.7	2.3	99.
BARLEY-DRYLAND	SAN LUIS OBISP	87528	0.0	3.1	2.7	99.
BARLEY-DRYLAND	SAN MATEO	96	0.0	2.0	1.8	99.
BARLEY-DRYLAND	SANTA BARBARA	3240	0.0	3.5	3.3	99.
BARLEY-DRYLAND	SANTA CLARA	2304	0.0	3.8	3.5	99.
BARLEY-DRYLAND	SHASTA	432	2.0	5.3	5.0	99.
BARLEY-DRYLAND	SISKIYOU	2880	0.0	4.7	4.4	99.
BARLEY-DRYLAND	SOLANO	6720	0.0	2.2	1.9	99.
BARLEY-DRYLAND	STANISLAUS	2304	0.0	3.0	2.7	99.
BARLEY-DRYLAND	SUTTER	7872	-1.0	3.1	2.8	99.
BARLEY-DRYLAND	TEHAMA	2280	-1.0	3.1	2.8	99.
BARLEY-DRYLAND	TULARE	10200	20.0	5.0	4.2	99.
BARLEY-DRYLAND	TUOLUMNE	96	0.0	3.0	2.7	99.
BARLEY-DRYLAND	VENTURA	1224	97.0	4.8	4.2	99.
BARLEY-DRYLAND	YOLO	9624	0.0	3.2	2.8	99.
BARLEY-DRYLAND	YUBA	120	-1.0	3.1	2.8	99.
BARLEY-DRYLAND	FRESNO-E	135	21.0	4.4	4.0	99.
BARLEY-DRYLAND	FRESNO-W	2745	21.0	3.0	2.9	99.
BARLEY-DRYLAND	KINGS-E	38	2.0	3.8	3.4	99.
BARLEY-DRYLAND	KINGS-W	4762	2.0	2.5	2.4	99.
	STATEWIDE	247752				
	STATEWIDE % LOSS					

BARLEY-IRR	T BUTTE	960	-1.0	3.1	2.8	99.
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BARLEY-IRRIGAT	COLUSA	1800	-1.0	3.1	2.8	99.
BARLEY-IRRIGAT	FRESNO	0	21.0	4.4	4.0	99.
BARLEY-IRRIGAT	GLENN	576	-1.0	3.1	2.8	99.
BARLEY-IRRIGAT	IMPERIAL	1512	-3.0	3.6	3.3	99.
BARLEY-IRRIGAT	INYO	120	3.0	5.9	5.9	99.
BARLEY-IRRIGAT	KERN	41328	13.5	4.2	3.7	99.
BARLEY-IRRIGAT	KINGS	0	2.0	3.8	3.4	99.
BARLEY-IRRIGAT	LASSEN	3048	5.0	5.2	4.9	99.
BARLEY-IRRIGAT	LOS ANGELES	576	202.0	4.1	3.8	99.
BARLEY-IRRIGAT	MADERA	2520	10.0	4.2	3.9	99.
BARLEY-IRRIGAT	MERCED	6744	10.0	4.2	3.9	99.
BARLEY-IRRIGAT	MODOC	29760	0.0	4.7	4.4	99.
BARLEY-IRRIGAT	MONTEREY	720	0.0	3.1	2.7	99.
BARLEY-IRRIGAT	RIVERSIDE	1200	337.0	4.3	3.8	99.
BARLEY-IRRIGAT	SACRAMENTO	2808	-3.0	2.4	2.3	99.
BARLEY-IRRIGAT	SAN BENITO	1008	0.0	3.8	3.5	99.
BARLEY-IRRIGAT	SAN BERNARDINO	3432	292.3	4.5	4.0	99.
BARLEY-IRRIGAT	SAN JOAQUIN	9096	4.0	2.7	2.3	99.
BARLEY-IRRIGAT	SAN LUIS OBISP	1344	0.0	3.1	2.7	99.
BARLEY-IRRIGAT	SHASTA	1368	2.0	5.3	5.0	99.
BARLEY-IRRIGAT	SISKIYOU	80424	0.0	4.7	4.4	99.
BARLEY-IRRIGAT	SOLANO	1344	0.0	2.2	1.9	99.
BARLEY-IRRIGAT	STANISLAUS	3456	0.0	3.0	2.7	99.
BARLEY-IRRIGAT	SUTTER	3648	-1.0	3.1	2.8	99.
BARLEY-IRRIGAT	TEHAMA	240	-1.0	3.1	2.8	99.
BARLEY-IRRIGAT	TULARE	24000	20.0	5.0	4.2	99.
BARLEY-IRRIGAT	YOLO	576	0.0	3.3	2.9	99.
BARLEY-IRRIGAT	FRESNO-E	19820	21.0	4.4	4.0	99.
BARLEY-IRRIGAT	FRESNO-W	51220	21.0	3.0	2.9	99.
BARLEY-IRRIGAT	KINGS-E	8040	2.0	3.8	3.4	99.
BARLEY-IRRIGAT	KINGS-W	15960	2.0	2.5	2.4	99.
STATEWIDE		318648				
STATEWIDE % LOSS						

BEANS-DRY	BUTTE	4560	1.0	4.7	4.4	19.8	20.2	5683	5717	99.
BEANS-DRY	COLUSA	9270	3.0	4.9	4.6	21.7	22.2	11841	11921	99.
BEANS-DRY	FRESNO	0	166.0	8.2	7.5	51.0	52.3	0	0	99.
BEANS-DRY	GLENN	4923	0.0	5.9	5.5	31.2	31.9	7153	7233	99.
BEANS-DRY	HUMBOLDT	26	0.0	3.7	3.4	9.1	9.3	29	29	99.
BEANS-DRY	INYO	143	8.0	6.4	6.4	39.7	40.7	237	241	99.
BEANS-DRY	KERN	9700	161.0	8.3	7.6	52.7	54.0	20501	21069	99.
BEANS-DRY	KINGS	0	147.0	7.1	7.0	46.0	47.1	0	0	99.
BEANS-DRY	MADERA	5200	49.0	7.2	6.7	43.5	44.6	9208	9383	99.
BEANS-DRY	MERCED	5170	49.0	7.2	6.7	43.5	44.6	9155	9329	99.
BEANS-DRY	MONO	75	0.0	5.5	5.9	34.9	35.7	115	117	99.
BEANS-DRY	MONTEREY	3304	0.0	3.0	2.7	2.5	2.5	3388	3390	99.
BEANS-DRY	ORANGE	854	2707.0	9.3	8.7	63.7	65.2	2352	2457	99.
BEANS-DRY	RIVERSIDE	187	1050.0	10.0	8.4	61.1	62.6	481	509	99.
BEANS-DRY	SAN BERNARDINO	145	1067.0	9.9	8.3	59.4	60.8	357	370	99.
BEANS-DRY	SAN JOAQUIN	20100	22.0	4.7	4.3	18.5	19.0	24669	24806	99.
BEANS-DRY	SAN LUIS OBISP	938	-0.7	3.5	3.3	8.1	8.3	1021	1023	99.
BEANS-DRY	SAN MATEO	12	0.0	2.5	2.3	-2.4	-2.4	12	12	99.
BEANS-DRY	SANTA BARBARA	5078	0.0	3.5	3.3	7.8	8.0	5509	5520	99.
BEANS-DRY	SOLANO	6930	0.0	3.1	2.8	3.3	3.4	7166	7172	99.
BEANS-DRY	STANISLAUS	37490	51.0	5.2	4.9	25.0	25.6	49990	50396	99.
BEANS-DRY	SUTTER	16291	13.5	5.1	4.8	23.6	24.1	21313	21473	99.
BEANS-DRY	TEHAMA	900	3.0	5.8	5.4	30.4	31.1	1292	1306	99.
BEANS-DRY	TULARE	12600	206.0	8.2	7.7	53.8	55.1	27283	28074	99.
BEANS-DRY	YOLO	1750	4.0	4.7	4.1	16.6	17.0	2097	2108	99.
BEANS-DRY	YUBA	441	9.0	5.9	5.7	32.5	33.3	653	661	99.
BEANS-DRY	FRESNO-E	3006	166.0	8.2	7.5	51.0	52.3	6140	6298	99.
BEANS-DRY	FRESNO-W	5994	166.0	5.6	5.3	29.3	30.0	8481	8567	99.
BEANS-DRY	KINGS-E	4913	147.0	7.1	7.0	46.0	47.1	9098	9289	99.
BEANS-DRY	KINGS-W	0	147.0	4.8	5.0	25.6	26.2	0	0	99.
STATEWIDE		160000						235224	238461	
STATEWIDE % LOSS								31.980	32.903	

BROCCOLI	FRESNO	0	147.5	5.5	4.9	99.
BROCCOLI	IMPERIAL	39865	-4.0	2.9	2.5	99.
BROCCOLI	MONTEREY	312665	0.0	2.9	2.6	99.
BROCCOLI	RIVERSIDE	7263	-4.0	2.9	2.5	99.
BROCCOLI	SAN BENITO	3135	0.0	4.0	3.6	99.
BROCCOLI	SAN LUIS OBISP	33647	0.0	4.1	3.6	99.
BROCCOLI	SANTA BARBARA	96151	0.5	3.3	3.0	99.
BROCCOLI	SANTA CLARA	4500	0.0	4.0	3.6	99.
BROCCOLI	STANISLAUS	2240	51.0	4.0	3.7	99.
BROCCOLI	VENTURA	22536	100.0	5.1	4.4	99.
BROCCOLI	FRESNO-E	22717	147.5	5.5	4.9	99.
BROCCOLI	FRESNO-W	35383	147.5	3.7	3.5	99.
	STATEWIDE	580102				
	STATEWIDE % LOSS					
CANTALOUPE	IMPERIAL	158081	-3.0	4.5	4.1	99.
CANTALOUPE	KERN	24600	92.0	6.7	6.2	99.
CANTALOUPE	KINGS	0	40.0	5.2	5.0	99.
CANTALOUPE	MERCED	100170	42.0	6.3	6.1	99.
CANTALOUPE	RIVERSIDE	37561	87.0	5.3	5.3	99.
CANTALOUPE	STANISLAUS	10500	25.0	5.1	5.0	99.
CANTALOUPE	KINGS-E	973	40.0	5.2	5.0	99.
CANTALOUPE	KINGS-W	15802	40.0	3.5	3.6	99.
	STATEWIDE	347687				
	STATEWIDE % LOSS					
CARROTS	FRESNO	0	313.5	5.6	5.1	99.
CARROTS	IMPERIAL	268958	-4.0	2.9	2.5	99.
CARROTS	KERN	449000	203.5	5.6	5.1	99.
CARROTS	KINGS	0	214.0	4.7	4.4	99.
CARROTS	MONTEREY	111910	0.0	2.9	2.6	99.
CARROTS	RIVERSIDE	23127	46.0	3.9	3.4	99.
CARROTS	SAN LUIS OBISP	85393	0.0	3.9	3.6	99.
CARROTS	FRESNO-E	27214	313.5	5.6	5.1	99.
CARROTS	FRESNO-W	42386	313.5	3.8	3.6	99.
CARROTS	KINGS-E	393	214.0	4.7	4.4	99.
CARROTS	KINGS-W	4843	214.0	3.2	3.1	99.
	STATEWIDE	1013224				
	STATEWIDE % LOSS					NO DATA
CAULIFLOWER	FRESNO	0	313.5	5.6	5.1	99.
CAULIFLOWER	IMPERIAL	16217	-4.0	2.9	2.5	99.
CAULIFLOWER	MONTEREY	143100	0.0	2.9	2.6	99.
CAULIFLOWER	ORANGE	1166	130.0	4.1	3.4	99.
CAULIFLOWER	RIVERSIDE	2744	230.0	4.8	4.7	99.
CAULIFLOWER	SAN BENITO	1815	0.0	4.0	3.6	99.
CAULIFLOWER	SAN DIEGO	6161	124.0	4.7	4.3	99.
CAULIFLOWER	SAN JOAQUIN	2690	4.0	4.0	3.6	99.
CAULIFLOWER	SAN LUIS OBISP	18831	0.0	3.8	3.5	99.
CAULIFLOWER	SANTA BARBARA	42731	0.5	3.3	3.0	99.
CAULIFLOWER	SANTA CLARA	2550	0.0	4.0	3.6	99.
CAULIFLOWER	SANTA CRUZ	5290	0.0	3.0	2.6	99.
CAULIFLOWER	STANISLAUS	5520	4.0	4.0	3.6	99.
CAULIFLOWER	VENTURA	5579	100.0	4.9	4.3	99.
CAULIFLOWER	FRESNO-E	1494	313.5	5.6	5.1	99.
CAULIFLOWER	FRESNO-W	2326	313.5	3.8	3.6	99.
	STATEWIDE	258214				
	STATEWIDE % LOSS					NO DATA
CELERY	MONTEREY	207330	0.0	3.1	2.8	99.
CELERY	ORANGE	28073	150.0	4.0	3.3	99.
CELERY	RIVERSIDE	2093	190.0	4.0	3.6	99.
CELERY	SAN DIEGO	4084	119.0	4.3	3.7	99.
CELERY	SAN LUIS OBISP	26231	0.0	4.1	3.7	99.
CELERY	SANTA BARBARA	82888	0.5	3.3	3.1	99.

CELERY	SANTA CRUZ	8608	0.0	3.0	2.6														99.
CELERY	VENTURA	321950	100.0	5.1	4.4														99.
	STATEWIDE	681257																	
	STATEWIDE % LOSS																		
CHERRIES	CONTRA COSTA	405	2.0	4.3	3.9														99.
CHERRIES	EL DORADO	59	74.0	5.3	5.2														99.
CHERRIES	PLACER	13	91.0	5.0	4.8														99.
CHERRIES	RIVERSIDE	23	839.0	4.8	4.9														99.
CHERRIES	SAN BENITO	532	0.0	4.3	3.9														99.
CHERRIES	SAN JOAQUIN	7250	8.0	3.7	3.3														99.
CHERRIES	SANTA CLARA	444	-2.0	4.1	3.5														99.
CHERRIES	SOLANO	131	0.0	3.0	2.7														99.
CHERRIES	STANISLAUS	2180	51.0	4.6	4.4														99.
CHERRIES	SUTTER	18	13.5	5.0	4.6														99.
	STATEWIDE	11055																	
	STATEWIDE % LOSS																		
																			NO DATA
CORN-FIELD	AMADOR	1444	49.0	6.2	6.2														99.
CORN-FIELD	BUTTE	7600	1.0	4.7	4.5														99.
CORN-FIELD	COLUSA	37000	2.0	5.0	4.8														99.
CORN-FIELD	CONTRA COSTA	18000	2.0	4.7	4.4														99.
CORN-FIELD	FRESNO	0	236.0	7.2	6.7														99.
CORN-FIELD	GLENN	24000	-1.0	5.4	5.1														99.
CORN-FIELD	IMPERIAL	2572	0.0	4.5	4.2														99.
CORN-FIELD	KERN	54800	173.0	7.4	6.9														99.
CORN-FIELD	KINGS	0	149.0	5.6	5.5														99.
CORN-FIELD	LASSEN	200	5.0	5.2	4.9														99.
CORN-FIELD	MADERA	46480	78.0	6.6	6.3														99.
CORN-FIELD	MERCED	60200	78.0	6.6	6.3														99.
CORN-FIELD	MONTEREY	2860	0.0	3.0	2.7														99.
CORN-FIELD	RIVERSIDE	18460	1321.0	8.9	7.7														99.
CORN-FIELD	SACRAMENTO	96000	0.0	3.8	3.4														99.
CORN-FIELD	SAN JOAQUIN	282000	27.0	4.9	4.6														99.
CORN-FIELD	SOLANO	195980	0.0	3.2	2.9														99.
CORN-FIELD	STANISLAUS	27100	50.0	5.3	5.2														99.
CORN-FIELD	SUTTER	21002	11.0	5.3	4.9														99.
CORN-FIELD	TEHAMA	5600	1.0	4.9	4.7														99.
CORN-FIELD	TULARE	44300	187.0	7.9	7.4														99.
CORN-FIELD	YOLO	111100	4.0	4.6	4.1														99.
CORN-FIELD	YUBA	3750	1.0	4.9	4.7														99.
CORN-FIELD	FRESNO-E	21615	236.0	7.2	6.7														99.
CORN-FIELD	FRESNO-W	11085	236.0	4.8	4.8														99.
CORN-FIELD	KINGS-E	49342	149.0	5.6	5.5														99.
CORN-FIELD	KINGS-W	6098	149.0	3.8	3.9														99.
	STATEWIDE	1148588																	
	STATEWIDE % LOSS																		
CORN-SWEET	CONTRA COSTA	4330	2.0	3.8	3.3														99.
CORN-SWEET	HUMBOLDT	234	0.0	3.3	3.2														99.
CORN-SWEET	LOS ANGELES	3630	1114.0	5.9	5.1														99.
CORN-SWEET	ORANGE	11764	169.0	4.7	4.0														99.
CORN-SWEET	RIVERSIDE	28661	230.0	5.3	5.2														99.
CORN-SWEET	SACRAMENTO	2100	-2.0	2.8	2.6														99.
CORN-SWEET	SAN BERNARDINO	330	723.0	6.4	5.6														99.
CORN-SWEET	SAN DIEGO	5138	114.0	4.8	4.4														99.
CORN-SWEET	SANTA CLARA	4200	-2.0	4.1	3.8														99.
CORN-SWEET	SUTTER	775	4.0	5.0	4.8														99.
CORN-SWEET	VENTURA	12530	97.0	5.8	5.3														99.
	STATEWIDE	73692																	
	STATEWIDE % LOSS																		
COTTON	FRESNO	0	294.0	7.3	6.8	31.7	35.5	9.5	30.8	0	0	0	0	0	0	0	0	0	99.
COTTON	IMPERIAL	10816	-1.0	4.3	4.0	11.3	12.7	-7.3	3.5	12194	12385	10816	11203	99.					
COTTON	KERN	140400	198.5	7.4	6.9	32.6	36.5	11.2	32.6	208196	221156	158039	208228	99.					
COTTON	KINGS	0	188.0	5.9	5.7	24.0	26.9	-1.3	17.3	0	0	0	0	99.					

GRAIN HAY	YUBA	7564	-1.0	3.2	3.0	99.
GRAIN HAY	KINGS-E	10212	2.0	3.7	3.4	99.
GRAIN HAY	KINGS-W	20273	2.0	2.5	2.4	99.
	STATEWIDE	725274				NO DATA
	STATEWIDE % LOSS					
GRAIN SORGHUM	BUTTE	3680	1.0	5.4	5.2	99.
GRAIN SORGHUM	COLUSA	4320	2.0	5.5	5.3	99.
GRAIN SORGHUM	FRESNO	0	230.0	8.1	7.5	99.
GRAIN SORGHUM	GLENN	4600	0.0	5.2	4.9	99.
GRAIN SORGHUM	IMPERIAL	1358	0.0	4.9	4.6	99.
GRAIN SORGHUM	KERN	12500	161.0	8.3	7.6	99.
GRAIN SORGHUM	KINGS	0	147.0	6.1	6.0	99.
GRAIN SORGHUM	MERCED	684	117.0	6.8	6.4	99.
GRAIN SORGHUM	RIVERSIDE	6255	612.0	8.0	7.3	99.
GRAIN SORGHUM	SACRAMENTO	1300	0.0	4.3	3.9	99.
GRAIN SORGHUM	SAN JOAQUIN	1570	23.5	5.1	4.8	99.
GRAIN SORGHUM	SOLANO	3025	0.0	3.3	3.0	99.
GRAIN SORGHUM	SUTTER	10870	11.0	5.5	5.2	99.
GRAIN SORGHUM	TEHAMA	320	3.0	5.8	5.4	99.
GRAIN SORGHUM	TULARE	10300	167.0	8.5	8.0	99.
GRAIN SORGHUM	YOLO	1800	4.0	5.2	4.5	99.
GRAIN SORGHUM	FRESNO-E	2543	230.0	8.1	7.5	99.
GRAIN SORGHUM	FRESNO-W	387	230.0	5.4	5.3	99.
GRAIN SORGHUM	KINGS-E	3195	147.0	6.1	6.0	99.
GRAIN SORGHUM	KINGS-W	0	147.0	4.1	4.3	99.
	STATEWIDE	68707				
	STATEWIDE % LOSS					
GRAPEFRUIT	IMPERIAL	5733	-1.0	4.3	4.0	99.
GRAPEFRUIT	KERN	16200	202.0	7.0	6.4	99.
GRAPEFRUIT	ORANGE	431	96.0	5.1	4.4	99.
GRAPEFRUIT	RIVERSIDE	183725	39.0	4.6	4.2	99.
GRAPEFRUIT	SAN BERNARDINO	15675	2707.0	9.3	8.7	99.
GRAPEFRUIT	SAN DIEGO	36560	22.0	5.5	4.7	99.
GRAPEFRUIT	TULARE	2000	252.0	7.8	7.1	99.
GRAPEFRUIT	VENTURA	9885	141.0	6.6	5.8	99.
	STATEWIDE	270209				NO DATA
	STATEWIDE % LOSS					
GRAPES-RAISIN	FRESNO	0	298.5	6.9	6.3	99.
GRAPES-RAISIN	KERN	218802	202.0	7.0	6.4	99.
GRAPES-RAISIN	KINGS	0	214.0	5.7	5.4	99.
GRAPES-RAISIN	MADERA	324657	120.0	6.3	5.9	99.
GRAPES-RAISIN	MERCED	15840	120.0	6.3	5.9	99.
GRAPES-RAISIN	TULARE	263411	252.0	7.8	7.1	99.
GRAPES-RAISIN	FRESNO-E	1541564	298.5	6.9	6.3	99.
GRAPES-RAISIN	FRESNO-W	41151	298.5	4.6	4.5	99.
GRAPES-RAISIN	KINGS-E	12225	214.0	5.7	5.4	99.
GRAPES-RAISIN	KINGS-W	1811	214.0	3.8	3.9	99.
	STATEWIDE	2419461				
	STATEWIDE % LOSS					
GRAPES-TABLE	FRESNO	0	298.5	6.9	6.3	99.
GRAPES-TABLE	KERN	147400	202.0	7.0	6.4	99.
GRAPES-TABLE	KINGS	0	214.0	5.7	5.4	99.
GRAPES-TABLE	MADERA	11347	120.0	6.3	5.9	99.
GRAPES-TABLE	RIVERSIDE	90133	230.0	6.5	6.7	99.
GRAPES-TABLE	SAN JOAQUIN	150000	28.5	4.5	4.1	99.
GRAPES-TABLE	TULARE	202400	252.0	7.8	7.1	99.
GRAPES-TABLE	FRESNO-E	65044	298.5	6.9	6.3	99.
GRAPES-TABLE	FRESNO-W	1736	298.5	4.6	4.5	99.
GRAPES-TABLE	KINGS-E	415	214.0	5.7	5.4	99.
GRAPES-TABLE	KINGS-W	61	214.0	3.8	3.9	99.
	STATEWIDE	668536				
	STATEWIDE % LOSS					

LETTUCE	FRESNO	0	180.5	5.1	4.5	99.
LETTUCE	IMPERIAL	341117	-4.0	2.3	2.0	99.
LETTUCE	KERN	95400	112.0	5.0	4.4	99.
LETTUCE	KINGS	0	174.0	4.5	4.1	99.
LETTUCE	MONTEREY	1280021	0.0	3.0	2.7	99.
LETTUCE	ORANGE	7712	119.0	4.0	3.2	99.
LETTUCE	RIVERSIDE	157695	-3.0	2.3	2.0	99.
LETTUCE	SACRAMENTO	300	0.0	3.1	2.7	99.
LETTUCE	SAN BENITO	18465	0.0	4.1	3.7	99.
LETTUCE	SAN BERNARDINO	1465	381.5	4.2	3.4	99.
LETTUCE	SAN LUIS OBISP	163700	0.0	3.5	3.3	99.
LETTUCE	SAN MATEO	910	0.0	2.3	2.1	99.
LETTUCE	SANTA BARBARA	154847	0.5	3.3	3.0	99.
LETTUCE	SANTA CLARA	11200	-3.0	4.1	3.5	99.
LETTUCE	SANTA CRUZ	64366	0.0	3.0	2.7	99.
LETTUCE	VENTURA	74662	100.0	4.9	4.3	99.
LETTUCE	FRESNO-E	2452	180.5	5.1	4.5	99.
LETTUCE	FRESNO-W	242748	180.5	3.4	3.2	99.
LETTUCE	KINGS-E	450	174.0	4.5	4.1	99.
LETTUCE	KINGS-W	5555	174.0	3.0	2.9	99.
	STATEWIDE	2623065				
	STATEWIDE % LOSS					

LIMAS-GREEN(PR	MERCED	2730	75.0	7.2	6.8	99.
LIMAS-GREEN(PR	SAN JOAQUIN	365	23.5	5.1	4.8	99.
LIMAS-GREEN(PR	STANISLAUS	16700	51.0	5.2	4.9	99.
LIMAS-GREEN(PR	VENTURA	9648	6.0	5.6	5.1	99.
	STATEWIDE	29443				NO DATA
	STATEWIDE % LOSS					

NECTARINES	CONTRA COSTA	66	2.0	4.6	4.2	99.
NECTARINES	FRESNO	0	298.5	7.1	6.5	99.
NECTARINES	KERN	22000	202.0	7.2	6.6	99.
NECTARINES	KINGS	0	214.0	5.9	5.6	99.
NECTARINES	MADERA	4975	120.0	6.4	6.0	99.
NECTARINES	MERCED	1530	120.0	6.4	6.0	99.
NECTARINES	RIVERSIDE	243	497.0	6.1	6.3	99.
NECTARINES	STANISLAUS	884	51.0	5.2	4.9	99.
NECTARINES	TULARE	59400	252.0	8.0	7.3	99.
NECTARINES	FRESNO-E	109000	298.5	7.1	6.5	99.
NECTARINES	FRESNO-W	0	298.5	4.8	4.6	99.
NECTARINES	KINGS-E	5025	214.0	5.9	5.6	99.
NECTARINES	KINGS-W	2453	214.0	4.0	4.0	99.
	STATEWIDE	205576				NO DATA
	STATEWIDE % LOSS					

OATS	BUTTE	800	-1.0	3.1	2.8	99.
OATS	LASSEN	384	5.0	5.2	4.9	99.
OATS	MERCED	3790	10.0	4.2	3.9	99.
OATS	MODOC	2100	0.0	4.7	4.4	99.
OATS	PLACER	832	4.0	3.4	3.1	99.
OATS	RIVERSIDE	1589	199.0	4.2	3.7	99.
OATS	SACRAMENTO	480	-3.0	2.6	2.3	99.
OATS	SAN JOAQUIN	3180	4.0	2.7	2.3	99.
OATS	SAN MATEO	1100	0.0	2.0	1.8	99.
OATS	SANTA BARBARA	710	-1.7	3.5	3.2	99.
OATS	SANTA CLARA	897	-3.0	3.7	3.2	99.
OATS	SHASTA	720	5.0	5.2	4.9	99.
OATS	SISKIYOU	14504	0.0	4.7	4.4	99.
OATS	SOLANO	1800	0.0	2.2	1.9	99.
OATS	SONOMA	461	0.0	2.2	1.9	99.
OATS	SUTTER	1852	-1.0	3.1	2.8	99.
OATS	TEHAMA	560	-2.0	3.4	3.1	99.
	STATEWIDE	35759				NO DATA
	STATEWIDE % LOSS					

PISTACHIOS	MERCED	2020	78.0	6.6	6.3	99.
PISTACHIOS	TULARE	1185	187.0	7.9	7.4	99.
PISTACHIOS	FRESNO-E	291	236.0	7.2	6.7	99.
PISTACHIOS	FRESNO-W	65	236.0	4.8	4.8	99.
PISTACHIOS	KINGS-E	4016	149.0	5.6	5.5	99.
PISTACHIOS	KINGS-W	4016	149.0	3.8	3.9	99.
	STATEWIDE	41133				NO DATA
	STATEWIDE % LOSS					
PLUMS	EL DORADO	348	74.0	5.3	5.2	99.
PLUMS	FRESNO	0	313.0	6.3	5.8	99.
PLUMS	KERN	39300	203.5	6.5	5.9	99.
PLUMS	KINGS	0	214.0	5.2	4.9	99.
PLUMS	MADERA	4866	127.0	5.8	5.4	99.
PLUMS	MERCED	432	127.0	5.8	5.4	99.
PLUMS	PLACER	903	91.0	5.0	4.8	99.
PLUMS	RIVERSIDE	59	839.0	4.8	4.9	99.
PLUMS	SOLANO	67	0.0	3.0	2.7	99.
PLUMS	SUTTER	200	1.0	4.3	4.0	99.
PLUMS	TULARE	72900	252.0	7.2	6.4	99.
PLUMS	FRESNO-E	103950	313.0	6.3	5.8	99.
PLUMS	FRESNO-W	1050	313.0	4.2	4.1	99.
PLUMS	KINGS-E	5437	214.0	5.2	4.9	99.
PLUMS	KINGS-W	2654	214.0	3.5	3.5	99.
	STATEWIDE	232166				NO DATA
	STATEWIDE % LOSS					
POTATOES	HUMBOLDT	7160	0.0	3.3	3.1	99.
POTATOES	KERN	416000	93.0	5.7	5.3	99.
POTATOES	MODOC	133735	6.0	5.5	5.1	99.
POTATOES	MONO	1445	0.0	5.2	5.4	99.
POTATOES	MONTEREY	26250	0.0	2.9	2.6	99.
POTATOES	RIVERSIDE	75059	458.0	6.3	5.9	99.
POTATOES	SAN DIEGO	8715	11.0	5.4	4.7	99.
POTATOES	SAN JOAQUIN	29400	18.5	4.3	3.9	99.
POTATOES	SISKIYOU	112480	0.0	4.6	4.3	99.
	STATEWIDE	810244				NO DATA
	STATEWIDE % LOSS					
PRUNES	AMADOR	172	74.0	5.8	5.8	99.
PRUNES	BUTTE	15534	1.0	4.6	4.3	99.
PRUNES	COLUSA	5170	3.0	4.9	4.6	99.
PRUNES	FRESNO	0	298.5	6.9	6.3	99.
PRUNES	GLENN	11958	1.0	4.6	4.3	99.
PRUNES	LAKE	180	0.0	3.8	3.6	99.
PRUNES	MENDOCINO	290	0.0	3.2	3.1	99.
PRUNES	MERCED	3690	120.0	6.3	5.9	99.
PRUNES	SAN BENITO	200	0.0	4.3	3.9	99.
PRUNES	SANTA CLARA	3705	0.0	4.1	3.5	99.
PRUNES	SOLANO	3591	0.0	3.2	2.8	99.
PRUNES	SONOMA	3742	0.0	3.1	2.8	99.
PRUNES	SUTTER	36758	15.5	5.0	4.6	99.
PRUNES	TEHAMA	8780	3.5	4.7	4.3	99.
PRUNES	TULARE	11219	252.0	7.8	7.1	99.
PRUNES	YOLO	3960	4.0	4.5	4.0	99.
PRUNES	YUBA	12318	1.0	4.6	4.3	99.
PRUNES	FRESNO-E	3495	298.5	6.9	6.3	99.
PRUNES	FRESNO-W	35	298.5	4.6	4.5	99.
	STATEWIDE	124797				NO DATA
	STATEWIDE % LOSS					
RICE	BUTTE	267000	1.0	4.6	4.3	99.
RICE	COLUSA	357000	2.0	5.0	4.8	99.
RICE	FRESNO	0	294.0	7.3	6.8	99.
RICE	GLENN	225473	0.0	5.2	4.8	99.
RICE	KERN	2100	198.5	7.4	6.9	99.

RICE	MERCED	31600	120.0	6.7	6.3	99.
RICE	PLACER	44800	90.0	5.9	5.7	99.
RICE	SACRAMENTO	33000	0.0	3.9	3.5	99.
RICE	SAN JOAQUIN	13900	26.0	4.7	4.3	99.
RICE	STANISLAUS	6510	51.0	5.3	5.2	99.
RICE	SUTTER	255863	13.5	5.1	4.8	99.
RICE	TEHAMA	7300	3.5	5.1	4.8	99.
RICE	YOLO	76100	4.0	4.8	4.3	99.
RICE	YUBA	93159	1.0	4.9	4.7	99.
RICE	FRESNO-E	790	294.0	7.3	6.8	99.
RICE	FRESNO-W	18010	294.0	4.9	4.8	99.
	STATEWIDE	1432605				
	STATEWIDE % LOSS					

SAFFLOWER	COLUSA	3825	0.0	4.7	4.5	99.
SAFFLOWER	FRESNO	0	84.5	6.1	5.8	99.
SAFFLOWER	KINGS	0	2.0	4.5	4.3	99.
SAFFLOWER	MERCED	667	36.0	5.8	5.6	99.
SAFFLOWER	SACRAMENTO	4290	0.0	3.9	3.5	99.
SAFFLOWER	SAN JOAQUIN	9130	4.0	4.8	4.4	99.
SAFFLOWER	SAN LUIS OBISP	1944	0.0	4.0	3.6	99.
SAFFLOWER	SANTA CLARA	1500	0.0	4.0	3.5	99.
SAFFLOWER	SOLANO	2811	0.0	3.2	2.8	99.
SAFFLOWER	SUTTER	1478	1.0	4.9	4.7	99.
SAFFLOWER	YOLO	11500	4.0	4.4	3.9	99.
SAFFLOWER	FRESNO-E	1285	84.5	6.1	5.8	99.
SAFFLOWER	FRESNO-W	16815	84.5	4.1	4.2	99.
SAFFLOWER	KINGS-E	7159	2.0	4.5	4.3	99.
SAFFLOWER	KINGS-W	44344	2.0	3.1	3.1	99.
	STATEWIDE	106748				
	STATEWIDE % LOSS					

NO DATA

SILAGE-CORN	FRESNO	0	133.0	7.2	6.8	99.
SILAGE-CORN	GLENN	75000	0.0	5.0	4.6	99.
SILAGE-CORN	KINGS	0	40.0	5.3	5.2	99.
SILAGE-CORN	LASSEN	1400	0.0	5.3	5.1	99.
SILAGE-CORN	MADERA	150000	42.0	6.6	6.4	99.
SILAGE-CORN	MERCED	735000	42.0	6.6	6.4	99.
SILAGE-CORN	MONTEREY	12500	0.0	2.9	2.7	99.
SILAGE-CORN	RIVERSIDE	39470	85.0	6.5	6.6	99.
SILAGE-CORN	SACRAMENTO	187000	0.0	3.9	3.5	99.
SILAGE-CORN	SAN BENITO	35190	0.0	4.5	4.1	99.
SILAGE-CORN	SAN BERNARDINO	46600	1526.0	8.5	7.2	99.
SILAGE-CORN	SAN DIEGO	990	13.0	5.5	4.8	99.
SILAGE-CORN	SAN JOAQUIN	637000	26.0	4.7	4.3	99.
SILAGE-CORN	SANTA BARBARA	24078	0.0	3.7	3.4	99.
SILAGE-CORN	SISKIYOU	13200	0.0	4.6	4.3	99.
SILAGE-CORN	SONOMA	10671	0.0	3.1	2.8	99.
SILAGE-CORN	STANISLAUS	833000	51.0	5.3	5.2	99.
SILAGE-CORN	SUTTER	59350	5.0	5.1	4.8	99.
SILAGE-CORN	YUBA	60508	1.0	4.9	4.7	99.
SILAGE-CORN	FRESNO-E	264400	133.0	7.2	6.8	99.
SILAGE-CORN	FRESNO-W	135600	133.0	4.8	4.9	99.
SILAGE-CORN	KINGS-E	182122	40.0	5.3	5.2	99.
SILAGE-CORN	KINGS-W	22509	40.0	3.6	3.7	99.
	STATEWIDE	3525588				
	STATEWIDE % LOSS					

SPINACH	MONTEREY	23260	0.0	3.0	2.7	99.
SPINACH	RIVERSIDE	2172	94.0	4.1	3.6	99.
SPINACH	SANTA BARBARA	7014	0.5	3.4	3.0	99.
SPINACH	SANTA CLARA	840	0.0	3.9	3.6	99.
SPINACH	STANISLAUS	30400	0.0	2.8	2.3	99.
SPINACH	VENTURA	29625	100.0	5.1	4.4	99.
	STATEWIDE	93311				
	STATEWIDE % LOSS					

STRAWBERRIES	FRESNO	0	25.5	4.6	4.1	99.
STRAWBERRIES	LOS ANGELES	6645	66.0	2.8	2.3	99.
STRAWBERRIES	MONTEREY	101050	0.0	2.9	2.6	99.
STRAWBERRIES	ORANGE	85251	127.0	4.0	3.3	99.
STRAWBERRIES	RIVERSIDE	529	620.0	4.8	4.2	99.
STRAWBERRIES	SAN BERNARDINO	7330	559.3	4.5	3.9	99.
STRAWBERRIES	SAN DIEGO	23513	146.0	4.5	4.0	99.
STRAWBERRIES	SAN LUIS OBISP	6519	0.0	3.5	3.2	99.
STRAWBERRIES	SANTA BARBARA	50678	0.0	3.0	2.7	99.
STRAWBERRIES	SANTA CLARA	4935	-3.0	3.9	3.4	99.
STRAWBERRIES	SANTA CRUZ	50043	0.0	3.1	2.6	99.
STRAWBERRIES	VENTURA	81866	100.0	5.0	4.4	99.
STRAWBERRIES	FRESNO-E	3260	25.5	4.6	4.1	99.
STRAWBERRIES	FRESNO-W	0	25.5	3.1	3.0	99.
	STATEWIDE	421619				
	STATEWIDE % LOSS					

NO DATA

SUGAR BEETS	BUTTE	55980	0.0	3.9	3.6	99.
SUGAR BEETS	COLUSA	232500	0.0	4.9	4.6	99.
SUGAR BEETS	CONTRA COSTA	11900	2.0	4.2	3.9	99.
SUGAR BEETS	FRESNO	0	298.5	6.9	6.3	99.
SUGAR BEETS	GLENN	156223	-4.0	5.0	4.6	99.
SUGAR BEETS	IMPERIAL	841920	-3.0	3.5	3.1	99.
SUGAR BEETS	KERN	292000	93.0	5.1	4.6	99.
SUGAR BEETS	KINGS	0	214.0	5.7	5.4	99.
SUGAR BEETS	MADERA	62088	120.0	6.3	5.9	99.
SUGAR BEETS	MERCED	396000	120.0	6.3	5.9	99.
SUGAR BEETS	MONTEREY	217520	0.0	3.0	2.8	99.
SUGAR BEETS	SACRAMENTO	92400	-1.0	4.0	3.5	99.
SUGAR BEETS	SAN BENITO	32918	0.0	4.2	3.8	99.
SUGAR BEETS	SAN JOAQUIN	695000	28.5	4.5	4.1	99.
SUGAR BEETS	SANTA BARBARA	18191	0.0	3.3	3.2	99.
SUGAR BEETS	SANTA CLARA	8835	-2.0	4.0	3.6	99.
SUGAR BEETS	SOLANO	385981	0.0	3.1	2.7	99.
SUGAR BEETS	STANISLAUS	88000	51.0	5.1	4.8	99.
SUGAR BEETS	SUTTER	104984	0.0	3.9	3.6	99.
SUGAR BEETS	TEHAMA	32700	3.0	5.1	4.8	99.
SUGAR BEETS	TULARE	106000	252.0	7.8	7.1	99.
SUGAR BEETS	VENTURA	3729	3.0	5.4	4.8	99.
SUGAR BEETS	YOLO	199288	4.0	3.8	3.3	99.
SUGAR BEETS	FRESNO-E	107512	298.5	6.9	6.3	99.
SUGAR BEETS	FRESNO-W	604488	298.5	4.6	4.5	99.
SUGAR BEETS	KINGS-E	28017	214.0	5.7	5.4	99.
SUGAR BEETS	KINGS-W	17026	214.0	3.8	3.9	99.
	STATEWIDE	4791200				
	STATEWIDE % LOSS					

TOMATOES-FRESH	FRESNO	0	236.0	7.6	7.1	99.
TOMATOES-FRESH	HUMBOLDT	263	-5.0	3.3	3.1	99.
TOMATOES-FRESH	IMPERIAL	8788	-1.0	4.6	4.3	99.
TOMATOES-FRESH	KINGS	0	40.0	5.2	5.0	99.
TOMATOES-FRESH	MERCED	36538	42.0	6.3	6.1	99.
TOMATOES-FRESH	MONTEREY	51645	0.0	3.1	2.9	99.
TOMATOES-FRESH	ORANGE	4685	82.0	5.2	4.5	99.
TOMATOES-FRESH	RIVERSIDE	3641	-1.0	4.5	4.2	99.
TOMATOES-FRESH	SACRAMENTO	2160	0.0	3.9	3.5	99.
TOMATOES-FRESH	SAN BERNARDINO	35	1498.0	9.2	7.8	99.
TOMATOES-FRESH	SAN DIEGO	53952	26.0	4.6	4.3	99.
TOMATOES-FRESH	SAN JOAQUIN	76400	26.0	4.7	4.3	99.
TOMATOES-FRESH	SANTA CLARA	4950	0.0	4.0	3.5	99.
TOMATOES-FRESH	STANISLAUS	38100	51.0	5.2	4.9	99.
TOMATOES-FRESH	SUTTER	1122	13.5	5.1	4.8	99.
TOMATOES-FRESH	TULARE	5350	78.0	7.5	7.0	99.
TOMATOES-FRESH	VENTURA	9164	30.0	5.5	4.9	99.
TOMATOES-FRESH	FRESNO-E	726	236.0	7.6	7.1	99.

TOMATOES-FRESH	FRESNO-W	79875	236.0	5.1	5.1
TOMATOES-FRESH	KINGS-E	1304	40.0	5.2	5.0
TOMATOES-FRESH	KINGS-W	16083	40.0	3.5	3.6
	STATEWIDE	394780			
	STATEWIDE % LOSS				

TOMATOES-PROCE	COLUSA	330000	1.0	4.9	4.6	-7.6	7.6	11.5	330000	357314	372754	99.
TOMATOES-PROCE	CONTRA COSTA	196561	2.0	3.8	3.2	-4.1	2.5	3.8	196561	201625	204259	99.
TOMATOES-PROCE	FRESNO	0	236.0	7.6	7.1	1.8	16.7	25.1	0	0	0	99.
TOMATOES-PROCE	IMPERIAL	110783	-1.0	4.6	4.3	-7.4	6.6	9.9	110783	118643	123011	99.
TOMATOES-PROCE	KERN	81000	198.5	7.4	6.9	0.2	15.9	23.9	81147	96364	106470	99.
TOMATOES-PROCE	KINGS	0	188.0	5.9	5.7	-5.8	11.8	17.6	0	0	0	99.
TOMATOES-PROCE	MERCED	187000	120.0	6.7	6.3	-3.3	13.9	20.8	187000	217111	236139	99.
TOMATOES-PROCE	MONTEREY	46000	0.0	2.8	2.5	-0.2	0.1	0.2	46000	46050	46075	99.
TOMATOES-PROCE	RIVERSIDE	15040	-1.0	4.6	4.3	-7.4	6.6	9.9	15040	16107	16700	99.
TOMATOES-PROCE	SACRAMENTO	153000	0.0	3.9	3.5	-5.5	3.7	5.6	153000	158960	162120	99.
TOMATOES-PROCE	SAN BENITO	197972	0.0	4.2	3.8	-6.4	4.7	7.1	197972	207806	213103	99.
TOMATOES-PROCE	SAN JOAQUIN	565000	26.0	4.7	4.3	-7.4	6.7	10.0	565000	605559	628124	99.
TOMATOES-PROCE	SANTA BARBARA	23504	0.0	4.0	3.7	-5.9	4.2	6.3	23504	24531	25079	99.
TOMATOES-PROCE	SANTA CLARA	101500	0.0	4.0	3.5	-5.5	3.8	5.7	101500	105494	107613	99.
TOMATOES-PROCE	SOLANO	594750	0.0	3.1	2.8	-2.1	1.2	1.8	594750	601981	605666	99.
TOMATOES-PROCE	STANISLAUS	310000	51.0	4.2	4.1	-7.0	5.7	8.6	310000	328790	339076	99.
TOMATOES-PROCE	SUTTER	491381	13.5	5.1	4.8	-7.6	8.3	12.4	491381	535642	560926	99.
TOMATOES-PROCE	VENTURA	76277	27.0	5.8	5.2	-7.2	9.8	14.6	76277	84523	89357	99.
TOMATOES-PROCE	YOLO	1202000	4.0	4.6	4.1	-7.1	5.8	8.7	1202000	1275844	1316311	99.
TOMATOES-PROCE	FRESNO-E	18315	236.0	7.6	7.1	1.8	16.7	25.1	18654	21999	24460	99.
TOMATOES-PROCE	FRESNO-W	2016685	236.0	5.1	5.1	-7.3	9.4	14.1	2016685	2226608	2348969	99.
TOMATOES-PROCE	KINGS-E	3002	188.0	5.9	5.7	-5.8	11.8	17.6	3002	3402	3645	99.
TOMATOES-PROCE	KINGS-W	37021	188.0	4.0	4.1	-7.1	5.8	8.7	37021	39311	40566	99.
	STATEWIDE	6756791							7807948	8365188	8220103	99.
	STATEWIDE % LOSS								13.463	19.227	17.802	99.

WALNUTS	ALAMEDA	147	45.0	4.7	4.0							99.
WALNUTS	AMADOR	317	74.0	6.0	6.0							99.
WALNUTS	BUTTE	19221	1.0	4.7	4.5							99.
WALNUTS	CALAVERAS	156	74.0	6.0	6.0							99.
WALNUTS	COLUSA	5415	2.0	5.0	4.8							99.
WALNUTS	CONTRA COSTA	1350	2.0	3.8	3.2							99.
WALNUTS	EL DORADO	165	74.0	6.0	6.0							99.
WALNUTS	FRESNO	0	294.0	7.0	6.5							99.
WALNUTS	GLENN	3920	1.0	4.6	4.3							99.
WALNUTS	KERN	2070	198.5	7.2	6.7							99.
WALNUTS	KINGS	0	188.0	5.7	5.5							99.
WALNUTS	LAKE	5178	0.0	3.8	3.6							99.
WALNUTS	MADERA	1572	120.0	6.5	6.1							99.
WALNUTS	MENDOCINO	36	0.0	3.2	3.1							99.
WALNUTS	MERCED	9610	120.0	6.5	6.1							99.
WALNUTS	MONTEREY	345	0.0	2.9	2.7							99.
WALNUTS	NAPA	135	0.0	3.5	3.1							99.
WALNUTS	PLACER	608	91.0	5.7	5.5							99.
WALNUTS	RIVERSIDE	150	820.0	5.2	5.4							99.
WALNUTS	SACRAMENTO	192	0.0	3.8	3.4							99.
WALNUTS	SAN BENITO	3939	0.0	4.4	4.0							99.
WALNUTS	SAN JOAQUIN	23500	27.5	4.7	4.3							99.
WALNUTS	SAN LUIS OBISP	1527	0.0	3.9	3.5							99.
WALNUTS	SANTA BARBARA	577	0.0	4.1	3.8							99.
WALNUTS	SANTA CLARA	1286	0.0	4.0	3.6							99.
WALNUTS	SHASTA	1430	6.0	4.8	4.5							99.
WALNUTS	SOLANO	2364	0.0	3.1	2.8							99.
WALNUTS	SONOMA	65	0.0	3.1	2.8							99.
WALNUTS	STANISLAUS	29500	51.0	5.2	5.0							99.
WALNUTS	SUTTER	12987	13.5	5.1	4.8							99.
WALNUTS	TEHAMA	13990	3.5	4.9	4.6							99.
WALNUTS	TULARE	29100	226.0	7.8	7.3							99.
WALNUTS	VENTURA	88	126.5	6.9	6.1							99.
WALNUTS	YOLO	7670	4.0	4.5	4.0							99.

WALNUTS	YUBA	7304	1.0	4.7	4.5	99.
WALNUTS	FRESNO-E	2339	294.0	7.0	6.5	99.
WALNUTS	FRESNO-W	521	294.0	4.7	4.7	99.
WALNUTS	KINGS-E	7879	188.0	5.7	5.5	99.
WALNUTS	KINGS-W	104	188.0	3.8	3.9	99.
	STATEWIDE	196757				
	STATEWIDE % LOSS					

NO DATA

WATERMELONS	FRESNO	0	133.0	6.8	6.4	99.
WATERMELONS	KERN	50600	91.5	7.0	6.6	99.
WATERMELONS	MERCED	23100	42.0	6.3	6.1	99.
WATERMELONS	RIVERSIDE	20112	571.0	7.0	6.9	99.
WATERMELONS	SAN JOAQUIN	25500	20.0	4.9	4.6	99.
WATERMELONS	STANISLAUS	13600	25.0	5.1	5.0	99.
WATERMELONS	SUTTER	5940	5.0	5.0	4.8	99.
WATERMELONS	FRESNO-E	323	133.0	6.8	6.4	99.
WATERMELONS	FRESNO-W	4807	133.0	4.5	4.6	99.
	STATEWIDE	143982				
	STATEWIDE % LOSS					

WHEAT	ALAMEDA	1748	6.0	3.1	2.6	99.
WHEAT	AMADOR	439	5.0	3.7	3.6	99.
WHEAT	BUTTE	26250	-1.0	3.4	3.1	99.
WHEAT	COLUSA	60000	-1.0	3.1	2.8	99.
WHEAT	CONTRA COSTA	7230	2.0	2.5	2.1	99.
WHEAT	FRESNO	0	20.5	4.3	4.0	99.
WHEAT	GLENN	60000	-1.0	3.1	2.8	99.
WHEAT	IMPERIAL	230505	-3.0	2.9	2.5	99.
WHEAT	KERN	123000	13.5	4.7	4.3	99.
WHEAT	KINGS	0	2.0	3.8	3.5	99.
WHEAT	LAKE	500	0.0	2.7	2.6	99.
WHEAT	LASSEN	900	5.0	5.2	4.9	99.
WHEAT	LOS ANGELES	548	202.0	4.3	4.0	99.
WHEAT	MADERA	58420	10.0	4.1	3.9	99.
WHEAT	MERCED	30300	10.0	4.1	3.9	99.
WHEAT	MODOC	6980	0.0	4.7	4.4	99.
WHEAT	MONTEREY	2895	0.0	3.0	2.7	99.
WHEAT	PLACER	930	4.0	4.1	3.8	99.
WHEAT	RIVERSIDE	81364	187.4	4.3	3.8	99.
WHEAT	SACRAMENTO	40000	-3.0	2.7	2.5	99.
WHEAT	SAN BENITO	6120	0.0	3.8	3.5	99.
WHEAT	SAN DIEGO	1140	6.0	4.3	3.7	99.
WHEAT	SAN JOAQUIN	115000	4.0	2.8	2.5	99.
WHEAT	SAN LUIS OBISP	31360	0.0	3.0	2.7	99.
WHEAT	SANTA BARBARA	4623	0.0	3.7	3.5	99.
WHEAT	SANTA CLARA	8800	0.0	3.8	3.5	99.
WHEAT	SHASTA	3240	0.0	3.4	3.1	99.
WHEAT	SISKIYOU	34555	0.0	4.3	4.0	99.
WHEAT	SOLANO	111789	0.0	2.4	2.0	99.
WHEAT	STANISLAUS	13100	0.0	3.3	3.1	99.
WHEAT	SUTTER	82371	0.0	3.1	2.8	99.
WHEAT	TEHAMA	8190	0.0	3.1	2.8	99.
WHEAT	TULARE	80000	20.0	5.4	4.7	99.
WHEAT	YOLO	137000	0.0	3.4	3.0	99.
WHEAT	YUBA	4912	0.0	3.1	2.8	99.
WHEAT	FRESNO-E	54684	20.5	4.3	4.0	99.
WHEAT	FRESNO-W	141316	20.5	2.9	2.9	99.
WHEAT	KINGS-E	21309	2.0	3.8	3.5	99.
WHEAT	KINGS-W	42301	2.0	2.5	2.5	99.
	STATEWIDE	1633819				
	STATEWIDE % LOSS					

WHEAT-DRYLAND	ALAMEDA	4350	6.0	3.1	2.6	99.
WHEAT-DRYLAND	BUTTE	4800	-1.0	3.4	3.1	99.
WHEAT-DRYLAND	COLUSA	13200	-1.0	3.1	2.8	99.
WHEAT-DRYLAND	CONTRA COSTA	1500	2.0	2.5	2.1	99.

WHEAT-DRYLAND	FRESNO	0	20.5	4.3	4.0	99.
WHEAT-DRYLAND	GLENN	10650	-1.0	3.2	2.8	99.
WHEAT-DRYLAND	IMPERIAL	1680	-3.0	2.9	2.5	99.
WHEAT-DRYLAND	KERN	3300	13.5	4.2	3.8	99.
WHEAT-DRYLAND	KINGS	0	2.0	3.7	3.4	99.
WHEAT-DRYLAND	LAKE	900	0.0	2.5	2.4	99.
WHEAT-DRYLAND	LASSEN	900	5.0	5.2	4.9	99.
WHEAT-DRYLAND	LOS ANGELES	3300	202.0	4.3	4.0	99.
WHEAT-DRYLAND	MONTEREY	1800	0.0	3.0	2.7	99.
WHEAT-DRYLAND	PLACER	1050	4.0	3.4	3.1	99.
WHEAT-DRYLAND	RIVERSIDE	10230	187.4	4.3	3.8	99.
WHEAT-DRYLAND	SACRAMENTO	9600	-3.0	2.7	2.5	99.
WHEAT-DRYLAND	SAN BENITO	5400	0.0	4.3	4.0	99.
WHEAT-DRYLAND	SAN DIEGO	600	6.0	4.3	3.7	99.
WHEAT-DRYLAND	SAN JOAQUIN	17100	4.0	2.8	2.5	99.
WHEAT-DRYLAND	SAN LUIS OBISP	9600	0.0	3.0	2.7	99.
WHEAT-DRYLAND	SANTA BARBARA	5340	0.0	3.7	3.5	99.
WHEAT-DRYLAND	SANTA CLARA	900	0.0	3.8	3.5	99.
WHEAT-DRYLAND	SISKIYOU	14850	0.0	4.3	4.0	99.
WHEAT-DRYLAND	SOLANO	33900	0.0	2.8	2.3	99.
WHEAT-DRYLAND	SONOMA	1800	0.0	2.2	1.9	99.
WHEAT-DRYLAND	SUTTER	30000	-1.0	3.2	3.0	99.
WHEAT-DRYLAND	TEHAMA	1650	-1.0	3.1	2.8	99.
WHEAT-DRYLAND	TULARE	8550	20.0	4.9	4.2	99.
WHEAT-DRYLAND	YOLO	45450	0.0	3.4	3.0	99.
WHEAT-DRYLAND	YUBA	3750	-1.0	3.2	3.0	99.
WHEAT-DRYLAND	FRESNO-E	324	20.5	4.3	4.0	99.
WHEAT-DRYLAND	FRESNO-W	6576	20.5	2.9	2.9	99.
WHEAT-DRYLAND	KINGS-E	59	2.0	3.7	3.4	99.
WHEAT-DRYLAND	KINGS-W	7291	2.0	2.5	2.4	99.
	STATEWIDE	260400				
	STATEWIDE % LOSS					

WHEAT-IRRIGATE	ALAMEDA	1650	6.0	3.1	2.6	99.
WHEAT-IRRIGATE	BUTTE	22200	-1.0	3.4	3.1	99.
WHEAT-IRRIGATE	COLUSA	47100	-1.0	3.1	2.8	99.
WHEAT-IRRIGATE	CONTRA COSTA	4200	2.0	2.5	2.1	99.
WHEAT-IRRIGATE	FRESNO	0	20.5	4.3	4.0	99.
WHEAT-IRRIGATE	GLENN	40140	-1.0	3.1	2.8	99.
WHEAT-IRRIGATE	IMPERIAL	219300	-3.0	2.9	2.5	99.
WHEAT-IRRIGATE	KERN	128550	17.0	4.4	4.0	99.
WHEAT-IRRIGATE	KINGS	0	2.0	3.7	3.4	99.
WHEAT-IRRIGATE	MADERA	21450	10.0	4.1	3.9	99.
WHEAT-IRRIGATE	MERCED	24600	10.0	4.1	3.9	99.
WHEAT-IRRIGATE	MODOC	7050	0.0	4.7	4.4	99.
WHEAT-IRRIGATE	MONTEREY	3450	0.0	3.0	2.7	99.
WHEAT-IRRIGATE	RIVERSIDE	21900	187.4	4.3	3.8	99.
WHEAT-IRRIGATE	SACRAMENTO	20010	-3.0	2.7	2.5	99.
WHEAT-IRRIGATE	SAN BENITO	1350	0.0	4.3	4.0	99.
WHEAT-IRRIGATE	SAN JOAQUIN	78750	0.0	5.2	4.8	99.
WHEAT-IRRIGATE	SAN LUIS OBISP	7800	0.0	3.0	2.7	99.
WHEAT-IRRIGATE	SANTA BARBARA	2850	0.0	3.7	3.5	99.
WHEAT-IRRIGATE	SANTA CLARA	7200	0.0	3.8	3.5	99.
WHEAT-IRRIGATE	SHASTA	1050	0.0	3.4	3.1	99.
WHEAT-IRRIGATE	SISKIYOU	3450	0.0	4.3	4.0	99.
WHEAT-IRRIGATE	SOLANO	80340	0.0	2.2	1.9	99.
WHEAT-IRRIGATE	STANISLAUS	7500	0.0	3.0	2.7	99.
WHEAT-IRRIGATE	SUTTER	54360	-1.0	3.2	3.0	99.
WHEAT-IRRIGATE	TEHAMA	4050	-1.0	3.1	2.8	99.
WHEAT-IRRIGATE	TULARE	50850	20.0	4.9	4.2	99.
WHEAT-IRRIGATE	YOLO	78000	0.0	3.4	3.0	99.
WHEAT-IRRIGATE	YUBA	3750	-1.0	3.2	3.0	99.
WHEAT-IRRIGATE	FRESNO-E	51141	20.5	4.3	4.0	99.
WHEAT-IRRIGATE	FRESNO-W	132159	20.5	2.9	2.9	99.
WHEAT-IRRIGATE	KINGS-E	53315	2.0	3.7	3.4	99.
WHEAT-IRRIGATE	KINGS-W	105835	2.0	2.5	2.4	99.

STATEWIDE 1285350

ALFALFA HAY	STATEWIDE % LOSS				
ALFALFA SEED	STATEWIDE % LOSS				
ALMONDS	STATEWIDE % LOSS				
APPLES	STATEWIDE % LOSS				
APRICOTS	STATEWIDE % LOSS				
ASPARAGUS	STATEWIDE % LOSS				
AVOCADOS	STATEWIDE % LOSS				
BARLEY	STATEWIDE % LOSS				
BARLEY-DRYLAND	STATEWIDE % LOSS				
BARLEY-IRRIGATE	STATEWIDE % LOSS	31.980	32.903		
BEANS-DRY	STATEWIDE % LOSS				
BROCCOLI	STATEWIDE % LOSS				
CANTALOUPE	STATEWIDE % LOSS				
CARROTS	STATEWIDE % LOSS				
CAULIFLOWER	STATEWIDE % LOSS				
CELERY	STATEWIDE % LOSS				
CHERRIES	STATEWIDE % LOSS				
CORN-FIELD	STATEWIDE % LOSS				
CORN-SWEET	STATEWIDE % LOSS	42.147	44.312	6.439	22.957
COTTON	STATEWIDE % LOSS				
FIGS	STATEWIDE % LOSS				
GARLIC	STATEWIDE % LOSS				
GRAIN HAY	STATEWIDE % LOSS				
GRAIN SORGHUM	STATEWIDE % LOSS				
GRAPEFRUIT	STATEWIDE % LOSS				
GRAPES-RAISIN	STATEWIDE % LOSS				
GRAPES-TABLE	STATEWIDE % LOSS				
GRAPES-WINE	STATEWIDE % LOSS				
HONEYDEW	STATEWIDE % LOSS				
LEMONS	STATEWIDE % LOSS				
LETTUCE	STATEWIDE % LOSS				
LIMAS-GREEN(PRO	STATEWIDE % LOSS				
NECTARINES	STATEWIDE % LOSS				
OATS	STATEWIDE % LOSS				
OLIVES	STATEWIDE % LOSS				
ONIONS-DRY(DEHY	STATEWIDE % LOSS				
ONIONS-DRY(FRES	STATEWIDE % LOSS				
ONIONS-DRY(TOTA	STATEWIDE % LOSS				
ORANGES	STATEWIDE % LOSS				
PASTURE-IRR	STATEWIDE % LOSS				
PEACHES	STATEWIDE % LOSS				
PEARS	STATEWIDE % LOSS				
PISTACHIOS	STATEWIDE % LOSS				
PLUMS	STATEWIDE % LOSS				
POTATOES	STATEWIDE % LOSS				
PRUNES	STATEWIDE % LOSS				
RICE	STATEWIDE % LOSS				
SAFFLOWER	STATEWIDE % LOSS				
SILAGE-CORN	STATEWIDE % LOSS				
SPINACH	STATEWIDE % LOSS				
STRAWBERRIES	STATEWIDE % LOSS				
SUGAR BEETS	STATEWIDE % LOSS				
TOMATOES-FRESH	STATEWIDE % LOSS				
TOMATOES-PROCES	STATEWIDE % LOSS	13.463	19.227	17.802	
WALNUTS	STATEWIDE % LOSS				
WATERMELONS	STATEWIDE % LOSS				
WHEAT	STATEWIDE % LOSS				
WHEAT-DRYLAND	STATEWIDE % LOSS				
WHEAT-IRRIGATED	STATEWIDE % LOSS				
TOTAL GRAPES		28.852	23.632		
TOTAL ONIONS		20.121			
TOTAL WHEAT		0.000	0.642	13.826	

D-3 Raw Data Sheets for 1986 Assessment - Equations #1-#4, PDT

17-APR-89 13:49:13 BASE7=2.720 BASE12=2.500 BASET=542.0 BASEYR= 0 STANDARD1=99.000 PDT (TEMPLE)

CROP	COUNTY	TONS	>10	7HR	12HR	INDEX				TONS/INDEX				STD
						(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)	
ALFALFA HAY	ALAMEDA	7738	45.0	4.0	3.7	100.0	100.0	100.0	4.4	7738	7738	7738	8091	99.
ALFALFA HAY	AMADOR	1014	74.0	5.9	6.1	100.0	100.0	100.0	13.7	1014	1014	1014	1175	99.
ALFALFA HAY	BUTTE	17110	1.0	4.0	3.9	100.0	100.0	100.0	5.3	17110	17110	17110	18071	99.
ALFALFA HAY	COLUSA	44650	1.0	4.0	3.9	100.0	100.0	100.0	5.3	44650	44650	44650	47158	99.
ALFALFA HAY	CONTRA COSTA	21000	2.0	3.3	3.0	100.0	100.0	100.0	1.8	21000	21000	21000	21390	99.
ALFALFA HAY	FRESNO	0	313.0	5.9	5.7	100.0	100.0	100.0	12.0	0	0	0	0	99.
ALFALFA HAY	GLENN	123420	1.0	4.0	3.9	100.0	100.0	100.0	5.3	123420	123420	123420	130353	99.
ALFALFA HAY	HUMBOLDT	1050	0.0	3.0	2.9	100.0	100.0	100.0	1.6	1050	1050	1050	1067	99.
ALFALFA HAY	IMPERIAL	1698682	-3.0	3.7	3.5	100.0	100.0	100.0	4.0	1698682	1698682	1698682	1768553	99.
ALFALFA HAY	INYO	27000	4.0	5.4	5.5	100.0	100.0	100.0	11.2	27000	27000	27000	30421	99.
ALFALFA HAY	KERN	729800	203.5	6.2	5.8	100.0	100.0	100.0	12.7	729800	729800	729800	835852	99.
ALFALFA HAY	KINGS	0	214.0	4.8	4.8	100.0	100.0	100.0	8.9	0	0	0	0	99.
ALFALFA HAY	LAKE	4940	0.0	3.4	3.3	100.0	100.0	100.0	3.0	4940	4940	4940	5093	99.
ALFALFA HAY	LASSEN	132000	6.0	4.9	4.8	100.0	100.0	100.0	8.9	132000	132000	132000	144878	99.
ALFALFA HAY	LOS ANGELES	63250	776.0	5.8	6.1	100.0	100.0	100.0	13.8	63250	63250	63250	73367	99.
ALFALFA HAY	MADERA	193320	127.0	5.4	5.3	100.0	100.0	100.0	10.5	193320	193320	193320	216055	99.
ALFALFA HAY	MERCED	465000	127.0	5.4	5.3	100.0	100.0	100.0	10.5	465000	465000	465000	519684	99.
ALFALFA HAY	MODOC	92450	0.0	4.3	4.0	100.0	100.0	100.0	5.8	92450	92450	92450	98155	99.
ALFALFA HAY	MONO	43125	0.0	5.3	5.6	100.0	100.0	100.0	11.8	43125	43125	43125	48902	99.
ALFALFA HAY	MONTEREY	42200	0.0	3.0	2.8	100.0	100.0	100.0	1.0	42200	42200	42200	42637	99.
ALFALFA HAY	PLUMAS	18000	74.0	5.9	6.1	100.0	100.0	100.0	13.7	18000	18000	18000	20852	99.
ALFALFA HAY	RIVERSIDE	372916	951.5	5.8	5.6	100.0	100.0	100.0	11.7	372916	372916	372916	422148	99.
ALFALFA HAY	SACRAMENTO	41300	-2.0	3.6	3.5	100.0	100.0	100.0	3.7	41300	41300	41300	42880	99.
ALFALFA HAY	SAN BENITO	18000	0.0	4.1	3.8	100.0	100.0	100.0	5.1	18000	18000	18000	18958	99.
ALFALFA HAY	SAN BERNARDINO	195000	1201.3	6.3	5.9	100.0	100.0	100.0	12.8	195000	195000	195000	223629	99.
ALFALFA HAY	SAN JOAQUIN	365000	8.0	3.3	3.2	100.0	100.0	100.0	2.7	365000	365000	365000	375264	99.
ALFALFA HAY	SAN LUIS OBISP	43360	0.0	3.4	3.2	100.0	100.0	100.0	2.6	43360	43360	43360	44510	99.
ALFALFA HAY	SANTA BARBARA	39928	0.0	3.5	3.4	100.0	100.0	100.0	3.3	39928	39928	39928	41276	99.
ALFALFA HAY	SANTA CLARA	10140	0.0	4.1	3.8	100.0	100.0	100.0	5.1	10140	10140	10140	10680	99.
ALFALFA HAY	SHASTA	76500	1.5	4.3	4.2	100.0	100.0	100.0	6.5	76500	76500	76500	81781	99.
ALFALFA HAY	SIERRA	4400	74.0	5.9	6.1	100.0	100.0	100.0	13.7	4400	4400	4400	5097	99.
ALFALFA HAY	SISKIYOU	330809	0.0	4.5	4.2	100.0	100.0	100.0	6.6	330809	330809	330809	354223	99.
ALFALFA HAY	SOLANO	68400	0.0	2.8	2.6	100.0	100.0	100.0	0.4	68400	68400	68400	68687	99.
ALFALFA HAY	STANISLAUS	162000	51.0	4.2	4.3	100.0	100.0	100.0	6.8	162000	162000	162000	173749	99.
ALFALFA HAY	SUTTER	22715	1.0	4.0	3.9	100.0	100.0	100.0	5.3	22715	22715	22715	23991	99.
ALFALFA HAY	TEHAMA	25800	1.0	4.0	3.9	100.0	100.0	100.0	5.3	25800	25800	25800	27249	99.
ALFALFA HAY	TRINITY	164	0.0	3.0	2.9	100.0	100.0	100.0	1.6	164	164	164	167	99.
ALFALFA HAY	TULARE	842000	252.0	6.6	6.3	100.0	100.0	100.0	14.6	842000	842000	842000	985802	99.
ALFALFA HAY	VENTURA	6475	163.0	6.0	5.7	100.0	100.0	100.0	12.1	6475	6475	6475	7368	99.
ALFALFA HAY	YOLO	132350	4.0	4.0	3.8	100.0	100.0	100.0	5.0	132350	132350	132350	139281	99.
ALFALFA HAY	YUBA	5045	1.0	4.0	3.9	100.0	100.0	100.0	5.3	5045	5045	5045	5328	99.
ALFALFA HAY	FRESNO-E	534336	313.0	5.9	5.7	100.0	100.0	100.0	12.0	534336	534336	534336	606967	99.
ALFALFA HAY	FRESNO-W	169664	313.0	4.0	4.1	100.0	100.0	100.0	5.9	169664	169664	169664	180279	99.
ALFALFA HAY	KINGS-E	161397	214.0	4.8	4.8	100.0	100.0	100.0	8.9	161397	161397	161397	177217	99.
ALFALFA HAY	KINGS-W	21801	214.0	3.3	3.5	100.0	100.0	100.0	3.7	21801	21801	21801	22635	99.
STATEWIDE		7375249								7375249	7375249	7375249	8070920	
STATEWIDE % LOSS										0.000	0.000	0.000	8.619	
ALFALFA SEED	FRESNO	0	308.5	6.0	5.7	100.0	100.0	100.0	12.3	0	0	0	0	99.
ALFALFA SEED	IMPERIAL	3748	-1.0	4.3	4.2	100.0	100.0	100.0	6.6	3748	3748	3748	4012	99.
ALFALFA SEED	KINGS	0	188.0	4.8	4.8	100.0	100.0	100.0	8.9	0	0	0	0	99.
ALFALFA SEED	LASSEN	113	6.0	4.9	4.8	100.0	100.0	100.0	8.9	113	113	113	124	99.
ALFALFA SEED	SOLANO	4	0.0	2.8	2.8	100.0	100.0	100.0	1.1	4	4	4	4	99.
ALFALFA SEED	FRESNO-E	10689	308.5	6.0	5.7	100.0	100.0	100.0	12.3	10689	10689	10689	12189	99.
ALFALFA SEED	FRESNO-W	7836	308.5	4.0	4.1	100.0	100.0	100.0	6.1	7836	7836	7836	8346	99.
ALFALFA SEED	KINGS-E	106	188.0	4.8	4.8	100.0	100.0	100.0	8.9	106	106	106	116	99.

		7480	188.0	3.2	3.5	100.0	100.0	100.0	3.6	7480	7480	7480	7763	99.
ALFALFA SEED	KINGS-W	29976								29976	29976	29976	32554	
	STATEWIDE	0.000								0.000	0.000	0.000	7.919	
	STATEWIDE % LOSS													
BEANS-DRY	BUTTE	4560	1.0	4.3	4.3	100.0	100.0	-21.9	12.5	4560	4560	4560	5208	99.
BEANS-DRY	COLUSA	9270	3.0	4.4	4.4	100.0	100.0	-23.1	13.7	9270	9270	9270	10744	99.
BEANS-DRY	FRESNO	0	166.0	7.6	7.3	100.0	100.0	-18.6	33.8	0	0	0	0	99.
BEANS-DRY	GLENN	4923	0.0	5.3	5.3	100.0	100.0	-26.6	19.9	4923	4923	4923	6147	99.
BEANS-DRY	HUMBOLDT	26	0.0	3.6	3.3	100.0	100.0	-11.4	5.3	26	26	26	27	99.
BEANS-DRY	INYO	143	8.0	6.3	6.3	100.0	100.0	-25.5	26.6	143	143	143	195	99.
BEANS-DRY	KERN	9700	161.0	7.8	7.5	100.0	100.0	-16.9	35.0	9700	9700	9700	14914	99.
BEANS-DRY	KINGS	0	147.0	6.6	6.8	100.0	100.0	-22.5	30.5	0	0	0	0	99.
BEANS-DRY	MADERA	5200	49.0	6.7	6.5	100.0	100.0	-24.4	28.2	5200	5200	5200	7243	99.
BEANS-DRY	MERCED	5170	49.0	6.7	6.5	100.0	100.0	-24.4	28.2	5170	5170	5170	7201	99.
BEANS-DRY	MONO	75	0.0	5.4	5.8	100.0	100.0	-26.7	23.0	75	75	75	97	99.
BEANS-DRY	MONTEREY	3304	0.0	2.8	2.7	100.0	100.0	-3.2	1.3	3304	3304	3304	3349	99.
BEANS-DRY	ORANGE	854	2707.0	8.2	8.5	100.0	100.0	-3.8	41.9	854	854	854	1470	99.
BEANS-DRY	RIVERSIDE	187	1050.0	9.1	8.2	100.0	100.0	-7.3	40.3	187	187	187	313	99.
BEANS-DRY	SAN BERNARDINO	145	1067.0	8.9	8.1	100.0	100.0	-9.6	39.2	145	145	145	238	99.
BEANS-DRY	SAN JOAQUIN	20100	22.0	4.0	4.2	100.0	100.0	-21.1	11.7	20100	20100	20100	22776	99.
BEANS-DRY	SAN LUIS OBISPO	938	-0.7	3.3	3.2	100.0	100.0	-11.3	5.2	938	938	938	990	99.
BEANS-DRY	SAN MATEO	12	0.0	2.4	2.3	100.0	100.0	4.5	-1.8	12	12	13	12	99.
BEANS-DRY	SANTA BARBARA	5078	0.0	3.4	3.2	100.0	100.0	-10.6	4.9	5078	5078	5078	5337	99.
BEANS-DRY	SOLANO	6930	0.0	2.8	2.8	100.0	100.0	-4.5	1.9	6930	6930	6930	7064	99.
BEANS-DRY	STANISLAUS	37490	51.0	4.6	4.8	100.0	100.0	-25.1	16.3	37490	37490	37490	44801	99.
BEANS-DRY	SUTTER	16291	13.5	4.6	4.7	100.0	100.0	-24.4	15.3	16291	16291	16291	19226	99.
BEANS-DRY	TEHAMA	900	3.0	5.3	5.3	100.0	100.0	-26.6	19.7	900	900	900	1121	99.
BEANS-DRY	TULARE	12600	206.0	7.6	7.6	100.0	100.0	-16.0	35.6	12600	12600	12600	19563	99.
BEANS-DRY	YOLO	1750	4.0	4.2	4.1	100.0	100.0	-20.2	11.0	1750	1750	1750	1966	99.
BEANS-DRY	YUBA	441	9.0	5.4	5.5	100.0	100.0	-26.7	20.9	441	441	441	557	99.
BEANS-DRY	FRESNO-E	3006	166.0	7.6	7.3	100.0	100.0	-18.6	33.8	3006	3006	3006	4538	99.
BEANS-DRY	FRESNO-W	5994	166.0	5.1	5.2	100.0	100.0	-26.4	19.1	5994	5994	5994	7412	99.
BEANS-DRY	KINGS-E	4913	147.0	6.6	6.8	100.0	100.0	-22.5	30.5	4913	4913	4913	7065	99.
BEANS-DRY	KINGS-W	0	147.0	4.4	4.9	100.0	100.0	-25.4	16.8	0	0	0	0	99.
	STATEWIDE	160000								160000	160000	160000	199574	
	STATEWIDE % LOSS	0.000								0.000	0.000	0.001	19.829	
BROCCOLI	FRESNO	0	147.5	5.2	4.9	-16.7				0	0	0	0	99.
BROCCOLI	IMPERIAL	39865	-4.0	2.7	2.6	-0.4				39865	39865	39865	39865	99.
BROCCOLI	MONTEREY	312665	0.0	2.8	2.5	-0.4				312665	312665	312665	312665	99.
BROCCOLI	RIVERSIDE	7263	-4.0	2.7	2.6	-0.4				7263	7263	7263	7263	99.
BROCCOLI	SAN BENITO	3135	0.0	3.8	3.6	-7.5				3135	3135	3135	3135	99.
BROCCOLI	SAN LUIS OBISPO	33647	0.0	3.9	3.5	-7.4				33647	33647	33647	33647	99.
BROCCOLI	SANTA BARBARA	96151	0.5	3.2	3.0	-3.2				96151	96151	96151	96151	99.
BROCCOLI	SANTA CLARA	4500	0.0	3.8	3.6	-7.5				4500	4500	4500	4500	99.
BROCCOLI	STANISLAUS	2240	51.0	3.7	3.6	-7.9				2240	2240	2240	2240	99.
BROCCOLI	VENTURA	22536	100.0	4.8	4.4	-13.3				22536	22536	22536	22536	99.
BROCCOLI	FRESNO-E	22717	147.5	5.2	4.9	-16.7				22717	22717	22717	22717	99.
BROCCOLI	FRESNO-W	35383	147.5	3.5	3.5	-6.9				35383	35383	35383	35383	99.
	STATEWIDE	580102								580102	580102	580102	580102	
	STATEWIDE % LOSS	0.000								0.000	0.000	0.000	0.000	
COTTON	FRESNO	0	294.0	6.8	6.6	100.0	100.0	18.3	32.3	0	0	0	0	99.
COTTON	IMPERIAL	10816	-1.0	4.1	4.1	100.0	100.0	6.3	8.0	10816	10816	11543	11752	99.
COTTON	KERN	140400	198.5	7.0	6.7	100.0	100.0	19.2	34.4	140400	140400	173678	214112	99.
COTTON	KINGS	0	188.0	5.4	5.6	100.0	100.0	12.1	18.1	0	0	0	0	99.
COTTON	MADERA	18706	120.0	6.2	6.1	100.0	100.0	15.7	25.9	18706	18706	22184	25247	99.
COTTON	MERCED	27425	120.0	6.2	6.1	100.0	100.0	15.7	25.9	27425	27425	32524	37015	99.
COTTON	RIVERSIDE	11724	-1.0	4.1	4.1	100.0	100.0	6.3	8.0	11724	11724	12512	12739	99.
COTTON	TULARE	61628	226.0	7.4	7.4	100.0	100.0	20.9	38.9	61628	61628	77870	100930	99.
COTTON	FRESNO-E	48207	294.0	6.8	6.6	100.0	100.0	18.3	32.3	48207	48207	59014	71164	99.
COTTON	FRESNO-W	167001	294.0	4.6	4.7	100.0	100.0	8.4	11.3	167001	167001	182220	188221	99.
COTTON	KINGS-E	41750	188.0	5.4	5.6	100.0	100.0	12.1	18.1	41750	41750	47475	50993	99.
COTTON	KINGS-W	80188	188.0	3.7	4.0	100.0	100.0	4.2	4.9	80188	80188	83663	84307	99.
	STATEWIDE	607845								607845	607845	702683	796480	
	STATEWIDE % LOSS	0.000								0.000	0.000	13.497	23.584	

HONEYDEW	FRESNO	0	133.0	6.3	6.2	0.0	0	99.
HONEYDEW	IMPERIAL	15632	0.0	4.4	4.3	0.0	15632	99.
HONEYDEW	RIVERSIDE	9455	226.0	6.9	7.2	0.0	9455	99.
HONEYDEW	STANISLAUS	24400	25.0	4.7	4.9	0.0	24400	99.
HONEYDEW	SUTTER	26212	13.5	4.6	4.6	0.0	26212	99.
HONEYDEW	YOLO	46464	4.0	4.2	4.0	0.0	46464	99.
HONEYDEW	FRESNO-E	1172	133.0	6.3	6.2	0.0	1172	99.
HONEYDEW	FRESNO-W	17428	133.0	4.3	4.5	0.0	17428	99.
HONEYDEW	STATEWIDE	140763					140763	
	STATEWIDE % LOSS						NO DATA	
LETTUCE	FRESNO	0	180.5	4.8	4.4	100.0	0	99.
LETTUCE	IMPERIAL	341117	-4.0	2.2	2.0	100.0	341117	99.
LETTUCE	KERN	95400	112.0	4.7	4.3	100.0	95400	99.
LETTUCE	KINGS	0	174.0	4.3	4.0	100.0	0	99.
LETTUCE	MONTEREY	1280021	0.0	2.9	2.7	100.0	1280021	99.
LETTUCE	ORANGE	7712	119.0	3.8	3.2	100.0	7712	99.
LETTUCE	RIVERSIDE	157695	-3.0	2.2	2.0	100.0	157695	99.
LETTUCE	SACRAMENTO	300	0.0	3.0	2.7	100.0	300	99.
LETTUCE	SAN BENITO	18465	0.0	3.9	3.7	100.0	18465	99.
LETTUCE	SAN BERNARDINO	1465	381.5	3.8	3.4	100.0	1465	99.
LETTUCE	SAN LUIS OBISP	163700	0.0	3.4	3.2	100.0	163700	99.
LETTUCE	SAN MATEO	910	0.0	2.2	2.0	100.0	910	99.
LETTUCE	SANTA BARBARA	154847	0.5	3.2	3.0	100.0	154847	99.
LETTUCE	SANTA CLARA	11200	-3.0	3.6	3.5	100.0	11200	99.
LETTUCE	SANTA CRUZ	64366	0.0	2.9	2.6	100.0	64366	99.
LETTUCE	VENTURA	74662	100.0	4.8	4.3	100.0	74662	99.
LETTUCE	FRESNO-E	2452	180.5	4.8	4.4	100.0	2452	99.
LETTUCE	FRESNO-W	242748	180.5	3.2	3.2	100.0	242748	99.
LETTUCE	KINGS-E	450	174.0	4.3	4.0	100.0	450	99.
LETTUCE	KINGS-W	5555	174.0	2.9	2.9	100.0	5555	99.
LETTUCE	STATEWIDE	2623065					2623065	
	STATEWIDE % LOSS						0.000	
ONIONS-DRY(DEH	FRESNO	0	250.5	5.3	5.1	25.2	0	99.
ONIONS-DRY(DEH	IMPERIAL	99079	-3.0	4.1	3.9	13.6	114629	99.
ONIONS-DRY(DEH	KERN	112000	174.5	5.5	5.1	25.8	151032	99.
ONIONS-DRY(DEH	KINGS	0	149.0	4.3	4.2	16.7	0	99.
ONIONS-DRY(DEH	MODOC	25900	0.0	4.3	4.0	15.1	30524	99.
ONIONS-DRY(DEH	RIVERSIDE	10660	273.3	4.5	4.2	16.6	12787	99.
ONIONS-DRY(DEH	SISKIYOU	8250	0.0	4.3	4.0	15.1	9723	99.
ONIONS-DRY(DEH	FRESNO-E	5372	250.5	5.3	5.1	25.2	7187	99.
ONIONS-DRY(DEH	FRESNO-W	152628	250.5	3.5	3.6	11.1	171665	99.
ONIONS-DRY(DEH	KINGS-E	761	149.0	4.3	4.2	16.7	914	99.
ONIONS-DRY(DEH	KINGS-W	9385	149.0	2.9	3.0	5.0	9874	99.
ONIONS-DRY(DEH	STATEWIDE	424035					508335	
	STATEWIDE % LOSS						16.584	
ONIONS-DRY(FRE	CONTRA COSTA	288	2.0	3.7	3.6	11.0	324	99.
ONIONS-DRY(FRE	FRESNO	0	250.5	5.3	5.1	25.2	0	99.
ONIONS-DRY(FRE	IMPERIAL	54174	-3.0	4.1	3.9	13.6	62676	99.
ONIONS-DRY(FRE	KERN	46900	174.5	5.5	5.1	25.8	63244	99.
ONIONS-DRY(FRE	LOS ANGELES	34800	2121.0	7.6	7.0	44.8	62993	99.
ONIONS-DRY(FRE	MONTEREY	5270	0.0	2.7	2.6	0.6	5301	99.
ONIONS-DRY(FRE	RIVERSIDE	11257	273.3	4.5	4.2	16.6	13503	99.
ONIONS-DRY(FRE	SAN BENITO	17205	0.0	4.1	3.9	13.6	19905	99.
ONIONS-DRY(FRE	SAN BERNARDINO	670	645.0	4.7	4.2	16.9	807	99.
ONIONS-DRY(FRE	SAN JOAQUIN	33600	8.0	3.0	3.0	4.5	35167	99.
ONIONS-DRY(FRE	SANTA CLARA	5950	0.0	3.5	3.5	10.1	6618	99.
ONIONS-DRY(FRE	FRESNO-E	1503	250.5	5.3	5.1	25.2	2011	99.
ONIONS-DRY(FRE	FRESNO-W	42697	250.5	3.5	3.6	11.1	48023	99.
ONIONS-DRY(FRE	STATEWIDE	254314					320572	
	STATEWIDE % LOSS						20.669	

TOMATOES-PROCE	COLUSA	330000	1.0	4.4	4.4	100.0	1.0	1.1	7.7	330000	333319	333760	357353	99.
TOMATOES-PROCE	CONTRA COSTA	196561	2.0	3.4	3.2	100.0	0.2	-9.2	2.6	196561	197021	196561	201870	99.
TOMATOES-PROCE	FRESNO	0	236.0	7.1	6.9	100.0	6.8	21.1	17.3	0	0	0	0	99.
TOMATOES-PROCE	IMPERIAL	110783	-1.0	4.4	4.3	100.0	1.0	0.2	7.2	110783	111886	111046	119407	99.
TOMATOES-PROCE	KERN	81000	198.5	7.0	6.7	100.0	6.4	19.7	16.6	81000	86544	100810	97173	99.
TOMATOES-PROCE	KINGS	0	188.0	5.4	5.6	100.0	2.3	10.5	12.2	0	0	0	0	99.
TOMATOES-PROCE	MERCED	187000	120.0	6.2	6.1	100.0	4.1	14.6	14.2	187000	194940	218854	217873	99.
TOMATOES-PROCE	MONTEREY	46000	0.0	2.6	2.5	100.0	0.0	-14.7	0.0	46000	46000	46000	46000	99.
TOMATOES-PROCE	RIVERSIDE	15040	-1.0	4.4	4.3	100.0	1.0	0.2	7.2	15040	15190	15076	16211	99.
TOMATOES-PROCE	SACRAMENTO	153000	0.0	3.5	3.5	100.0	0.3	-6.8	3.8	153000	153457	153000	159056	99.
TOMATOES-PROCE	SAN BENITO	197972	0.0	4.0	3.8	100.0	0.6	-4.5	4.9	197972	199232	197972	208273	99.
TOMATOES-PROCE	SAN JOAQUIN	565000	26.0	4.1	4.2	100.0	0.7	-0.7	6.8	565000	568912	565000	606163	99.
TOMATOES-PROCE	SANTA BARBARA	23504	0.0	3.8	3.6	100.0	0.4	-6.0	4.2	23504	23609	23504	24534	99.
TOMATOES-PROCE	SANTA CLARA	101500	0.0	3.5	3.5	100.0	0.3	-6.6	3.9	101500	101825	101500	105604	99.
TOMATOES-PROCE	SOLANO	594750	0.0	2.8	2.8	100.0	0.0	-12.4	1.1	594750	594947	594750	601359	99.
TOMATOES-PROCE	STANISLAUS	310000	51.0	3.9	4.0	100.0	0.5	-2.6	5.8	310000	311628	310000	329257	99.
TOMATOES-PROCE	SUTTER	491381	13.5	4.6	4.6	100.0	1.2	2.7	8.4	491381	497345	504827	536442	99.
TOMATOES-PROCE	VENTURA	76277	27.0	5.4	5.1	100.0	2.3	6.5	10.2	76277	78093	81550	84984	99.
TOMATOES-PROCE	YOLO	1202000	4.0	4.2	4.0	100.0	0.8	-2.2	6.0	1202000	1211237	1202000	1279335	99.
TOMATOES-PROCE	FRESNO-E	18315	236.0	7.1	6.9	100.0	6.8	21.1	17.3	18315	19643	23215	22160	99.
TOMATOES-PROCE	FRESNO-W	2016685	236.0	4.8	5.0	100.0	1.7	5.3	9.7	2016685	2045098	2128474	2232233	99.
TOMATOES-PROCE	KINGS-E	3002	188.0	5.4	5.6	100.0	2.5	10.5	12.2	3002	3074	3355	3419	99.
TOMATOES-PROCE	KINGS-W	37021	188.0	3.7	4.0	100.0	0.4	-2.4	5.9	37021	37163	37021	39354	99.
	STATEWIDE	6756791								6756791	6830163	6948275	7288060	
	STATEWIDE % LOSS									0.000	1.074	2.756	7.290	

WATERMELONS	FRESNO	0	133.0	6.3	6.2	0.0				0				99.
WATERMELONS	KERN	50600	91.5	6.6	6.4	0.0				50600				99.
WATERMELONS	MERCED	23100	42.0	5.9	5.9	0.0				23100				99.
WATERMELONS	RIVERSIDE	20112	571.0	6.6	6.7	0.0				20112				99.
WATERMELONS	SAN JOAQUIN	25500	20.0	4.4	4.5	0.0				25500				99.
WATERMELONS	STANISLAUS	13600	25.0	4.7	4.9	0.0				13600				99.
WATERMELONS	SUTTER	5940	5.0	4.6	4.7	0.0				5940				99.
WATERMELONS	FRESNO-E	323	133.0	6.3	6.2	0.0				323				99.
WATERMELONS	FRESNO-W	4807	133.0	4.3	4.5	0.0				4807				99.
	STATEWIDE	143982								143982				
	STATEWIDE % LOSS									NO DATA				

ALFALFA HAY	STATEWIDE % LOSS									0.000	0.000	0.000	8.619	
ALFALFA SEED	STATEWIDE % LOSS									0.000	0.000	0.000	7.919	
BEANS-DRY	STATEWIDE % LOSS									0.000	0.000	0.001	19.829	
BROCCOLI	STATEWIDE % LOSS									0.000	0.000	13.497	23.684	
COTTON	STATEWIDE % LOSS									NO DATA				
HONEYDEW	STATEWIDE % LOSS									0.000	0.000	0.002		
LETTUCE	STATEWIDE % LOSS									16.584	3.756			
ONIONS-DRY(DEHY)	STATEWIDE % LOSS									20.669	4.347			
ONIONS-DRY(FRES)	STATEWIDE % LOSS									20.669	4.347			
ONIONS-DRY(FRES)	STATEWIDE % LOSS									20.669	4.347			
TOMATOES-PROCES	STATEWIDE % LOSS									0.000	1.074	2.756	7.290	
WATERMELON	STATEWIDE % LOSS									NO DATA				
TOTAL GR. AS										-900.000	-900.000			

D-4 Raw Data Sheets for 1986 Assessment - Equations #5-#8, PDT



ALFALFA SEED	KINGS-W	7480	188.0	3.2	3.5															
	STATEWIDE	29976																		
	STATEWIDE % LOSS																			
BEANS-DRY	BUTTE	4560	1.0	4.3	4.3	18.2	18.7			5575	5606									99.
BEANS-DRY	COLUSA	9270	3.0	4.4	4.4	20.1	20.6			11597	11668									99.
BEANS-DRY	FRESNO	0	166.0	7.6	7.3	49.4	50.6			0	0									99.
BEANS-DRY	GLENN	4923	0.0	5.3	5.3	29.1	29.8			6946	7015									99.
BEANS-DRY	HUMBOLDT	26	0.0	3.6	3.3	7.7	7.9			28	28									99.
BEANS-DRY	INYO	143	8.0	6.3	6.3	38.9	39.8			234	238									99.
BEANS-DRY	KERN	9700	161.0	7.8	7.5	51.1	52.4			19853	20369									99.
BEANS-DRY	KINGS	0	147.0	6.6	6.8	44.6	45.6			0	0									99.
BEANS-DRY	MADERA	5200	49.0	6.7	6.5	41.3	42.3			8853	9006									99.
BEANS-DRY	MERCED	5170	49.0	6.7	6.5	41.3	42.3			8802	8954									99.
BEANS-DRY	MONO	75	0.0	5.4	5.8	33.6	34.5			113	114									99.
BEANS-DRY	MONTEREY	3304	0.0	2.8	2.7	2.0	2.0			3370	3372									99.
BEANS-DRY	ORANGE	854	2707.0	8.2	8.5	61.3	62.8			2208	2296									99.
BEANS-DRY	RIVERSIDE	187	1050.0	9.1	8.2	59.0	60.4			456	472									99.
BEANS-DRY	SAN BERNARDINO	145	1067.0	8.9	8.1	57.3	58.7			340	351									99.
BEANS-DRY	SAN JOAQUIN	20100	22.0	4.0	4.2	17.2	17.6			24271	24393									99.
BEANS-DRY	SAN LUIS OBISP	938	-0.7	3.3	3.2	7.6	7.8			1015	1017									99.
BEANS-DRY	SAN MATEO	12	0.0	2.4	2.3	-2.6	-2.6			12	12									99.
BEANS-DRY	SANTA BARBARA	5078	0.0	3.4	3.2	7.1	7.3			5466	5476									99.
BEANS-DRY	SOLANO	6930	0.0	2.8	2.8	2.8	2.8			7128	7133									99.
BEANS-DRY	STANISLAUS	37490	51.0	4.6	4.8	23.9	24.5			49247	49623									99.
BEANS-DRY	SUTTER	16291	13.5	4.6	4.7	22.3	22.9			20974	21121									99.
BEANS-DRY	TEHAMA	900	3.0	5.3	5.3	28.8	29.5			1264	1277									99.
BEANS-DRY	TULARE	12600	206.0	7.6	7.6	52.1	53.3			26287	26997									99.
BEANS-DRY	YOLO	1750	4.0	4.2	4.1	16.1	16.4			2085	2094									99.
BEANS-DRY	YUBA	441	9.0	5.4	5.5	30.6	31.3			635	642									99.
BEANS-DRY	FRESNO-E	3006	166.0	7.6	7.3	49.4	50.6			5940	6083									99.
BEANS-DRY	FRESNO-W	5994	166.0	5.1	5.2	28.0	28.7			8324	8403									99.
BEANS-DRY	KINGS-E	4913	147.0	6.6	6.8	44.6	45.6			8861	9037									99.
BEANS-DRY	KINGS-W	0	147.0	4.4	4.9	24.6	25.2			0	0									99.
	STATEWIDE	160000								229884	232797									
	STATEWIDE % LOSS									30.400	31.271									

BROCCOLI	FRESNO	0	147.5	5.2	4.9															99.
BROCCOLI	IMPERIAL	39865	-4.0	2.7	2.6															99.
BROCCOLI	MONTEREY	312665	0.0	2.8	2.5															99.
BROCCOLI	RIVERSIDE	7263	-4.0	2.7	2.6															99.
BROCCOLI	SAN BENITO	3135	0.0	3.8	3.6															99.
BROCCOLI	SAN LUIS OBISP	33647	0.0	3.9	3.5															99.
BROCCOLI	SANTA BARBARA	96151	0.5	3.2	3.0															99.
BROCCOLI	SANTA CLARA	4500	0.0	3.8	3.6															99.
BROCCOLI	STANISLAUS	2240	51.0	3.7	3.6															99.
BROCCOLI	VENTURA	22536	100.0	4.8	4.4															99.
BROCCOLI	FRESNO-E	22717	147.5	5.2	4.9															99.
BROCCOLI	FRESNO-W	35383	147.5	3.5	3.5															99.
	STATEWIDE	580102																		
	STATEWIDE % LOSS																			

COTTON	FRESNO	0	294.0	6.8	6.6	30.5	34.2	7.5	28.4	0	0	0	0	99.
COTTON	IMPERIAL	10816	-1.0	4.1	4.1	11.7	13.1	-7.4	3.7	12245	12445	10816	11233	99.
COTTON	KERN	140400	198.5	7.0	6.7	31.5	35.3	9.3	30.5	205032	217164	154756	201902	99.
COTTON	KINGS	0	188.0	5.4	5.6	23.1	25.9	-2.2	16.0	0	0	0	0	99.
COTTON	MADERA	18706	120.0	6.2	6.1	26.8	30.1	2.0	21.8	25568	26760	19096	23930	99.
COTTON	MERCED	27425	120.0	6.2	6.1	26.8	30.1	2.0	21.8	37486	39232	27997	35084	99.
COTTON	RIVERSIDE	11724	-1.0	4.1	4.1	11.7	13.1	-7.4	3.7	13273	13490	11724	12176	99.
COTTON	TULARE	61628	226.0	7.4	7.4	36.4	40.9	19.0	41.0	96944	104190	76126	104525	99.
COTTON	FRESNO-E	48207	294.0	6.8	6.6	30.5	34.2	7.5	28.4	69345	73242	52112	67347	99.
COTTON	FRESNO-W	167001	294.0	4.6	4.7	16.6	18.6	-6.7	7.9	200191	205139	167001	181386	99.
COTTON	KINGS-E	41750	188.0	5.4	5.6	23.1	25.9	-2.2	16.0	54307	56364	41750	49702	99.
COTTON	KINGS-W	80188	188.0	3.7	4.0	11.2	12.6	-7.3	3.4	90329	91736	80188	83017	99.
	STATEWIDE	607845								1034604	1072559	641566	770302	
	STATEWIDE % LOSS									41.249	43.328	5.256	21.	

HONEYDEW	FRESNO	0	133.0	6.3	6.2	99.
HONEYDEW	IMPERIAL	15632	0.0	4.4	4.3	99.
HONEYDEW	RIVERSIDE	9455	226.0	6.9	7.2	99.
HONEYDEW	STANISLAUS	24400	25.0	4.7	4.9	99.
HONEYDEW	SUTTER	26212	13.5	4.6	4.6	99.
HONEYDEW	YOLO	46464	4.0	4.2	4.0	99.
HONEYDEW	FRESNO-E	1172	133.0	6.3	6.2	99.
HONEYDEW	FRESNO-W	17428	133.0	4.3	4.5	99.
	STATEWIDE	140763				
	STATEWIDE % LOSS					NO DATA

LETTUCE	FRESNO	0	180.5	4.8	4.4	99.
LETTUCE	IMPERIAL	341117	-4.0	2.2	2.0	99.
LETTUCE	KERN	95400	112.0	4.7	4.3	99.
LETTUCE	KINGS	0	174.0	4.3	4.0	99.
LETTUCE	MONTEREY	1280021	0.0	2.9	2.7	99.
LETTUCE	ORANGE	7712	119.0	3.8	3.2	99.
LETTUCE	RIVERSIDE	157695	-3.0	2.2	2.0	99.
LETTUCE	SACRAMENTO	300	0.0	3.0	2.7	99.
LETTUCE	SAN BENITO	18465	0.0	3.9	3.7	99.
LETTUCE	SAN BERNARDINO	1465	381.5	3.8	3.4	99.
LETTUCE	SAN LUIS OBISP	163700	0.0	3.4	3.2	99.
LETTUCE	SAN MATEO	910	0.0	2.2	2.0	99.
LETTUCE	SANTA BARBARA	154847	0.5	3.2	3.0	99.
LETTUCE	SANTA CLARA	11200	-3.0	3.6	3.5	99.
LETTUCE	SANTA CRUZ	64366	0.0	2.9	2.6	99.
LETTUCE	VENTURA	74662	100.0	4.8	4.3	99.
LETTUCE	FRESNO-E	2452	180.5	4.8	4.4	99.
LETTUCE	FRESNO-W	242748	180.5	3.2	3.2	99.
LETTUCE	KINGS-E	450	174.0	4.3	4.0	99.
LETTUCE	KINGS-W	5555	174.0	2.9	2.9	99.
	STATEWIDE	2623065				
	STATEWIDE % LOSS					

ONIONS-DRY(DEH)	FRESNO	0	250.5	5.3	5.1	99.
ONIONS-DRY(DEH)	IMPERIAL	99079	-3.0	4.1	3.9	99.
ONIONS-DRY(DEH)	KERN	112000	174.5	5.5	5.1	99.
ONIONS-DRY(DEH)	KINGS	0	149.0	4.3	4.2	99.
ONIONS-DRY(DEH)	MODOC	25900	0.0	4.3	4.0	99.
ONIONS-DRY(DEH)	RIVERSIDE	10660	273.3	4.5	4.2	99.
ONIONS-DRY(DEH)	SISKIYOU	8250	0.0	4.3	4.0	99.
ONIONS-DRY(DEH)	FRESNO-E	5372	250.5	5.3	5.1	99.
ONIONS-DRY(DEH)	FRESNO-W	152628	250.5	3.5	3.6	99.
ONIONS-DRY(DEH)	KINGS-E	761	149.0	4.3	4.2	99.
ONIONS-DRY(DEH)	KINGS-W	9385	149.0	2.9	3.0	99.
	STATEWIDE	424035				
	STATEWIDE % LOSS					

ONIONS-DRY(FRE)	CONTRA COSTA	288	2.0	3.7	3.6	99.
ONIONS-DRY(FRE)	FRESNO	0	250.5	5.3	5.1	99.
ONIONS-DRY(FRE)	IMPERIAL	54174	-3.0	4.1	3.9	99.
ONIONS-DRY(FRE)	KERN	46900	174.5	5.5	5.1	99.
ONIONS-DRY(FRE)	LOS ANGELES	34800	2121.0	7.6	7.0	99.
ONIONS-DRY(FRE)	MONTEREY	5270	0.0	2.7	2.6	99.
ONIONS-DRY(FRE)	RIVERSIDE	11257	273.3	4.5	4.2	99.
ONIONS-DRY(FRE)	SAN BENITO	17205	0.0	4.1	3.9	99.
ONIONS-DRY(FRE)	SAN BERNARDINO	670	645.0	4.7	4.2	99.
ONIONS-DRY(FRE)	SAN JOAQUIN	33600	8.0	3.0	3.0	99.
ONIONS-DRY(FRE)	SANTA CLARA	5950	0.0	3.5	3.5	99.
ONIONS-DRY(FRE)	FRESNO-E	1503	250.5	5.3	5.1	99.
ONIONS-DRY(FRE)	FRESNO-W	42697	250.5	3.5	3.6	99.
	STATEWIDE	254314				
	STATEWIDE % LOSS					

ONIONS-DRY(DEHY
~~ONIONS-DRY(PRES~~
~~ONIONS-DRY(TOTA~~
TOMATOES-PROCES
WATERMELONS

STATEWIDE % LOSS
~~STATEWIDE % LOSS~~
~~STATEWIDE % LOSS~~
STATEWIDE % LOSS

13.2 18.775 17.263
~~19.200 18.775 17.263~~
NO DATA



D-5 Raw Data Sheets for 1986 Assessment - Equations #1-#2, PDT
for Potatoes

* type 1d*86pot.out

6-APR-89 15:34:13 BASE7=2.720 BASE10=2.590 BASE1=542.0 BASEYK= 0 STANDARD1=99.000 10hr pdt potato

CROP	COUNTY	TONS	>10	7HR	10HR	INDEX				TONS/INDEX				STU
						(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)	
POTATOES	HUMBOLDT	7160	0.0	3.4	3.3	2.5	4.8			7344	7525			99.
POTATOES	KERN	416000	93.0	6.0	5.6	10.9	31.0			466744	526623			99.
POTATOES	MODOC	133735	6.0	5.8	5.4	10.1	19.6			148834	166339			99.
POTATOES	MONO	1445	0.0	5.3	5.5	10.5	20.2			1514	1812			99.
POTATOES	MONTEREY	26250	0.0	2.9	2.7	0.4	0.8			26365	26473			99.
POTATOES	RIVERSIDE	75059	458.0	6.5	6.2	13.0	25.1			86256	100187			99.
POTATOES	SAN DIEGO	8715	11.0	5.4	4.8	8.2	15.8			9492	10351			99.
POTATOES	SAN JOAQUIN	29400	18.5	4.6	4.3	6.1	11.7			31301	33308			99.
POTATOES	SISKIYOU	112480	0.0	4.6	4.4	6.7	12.9			120545	129179			99.
	STATEWIDE	810244								898495	1001797			
	STATEWIDE % LOSS									9.822	19.121			
POTATOES	STATEWIDE % LOSS									9.822	19.121			

APPENDIX E

Agenda for 1988 Crop Loss Workshop



FINAL AGENDA

1988 CROP LOSS ASSESSMENT PROJECT WORKSHOP

SEPTEMBER 12-13, 1988, U. C. RIVERSIDE

Monday, September 12

1900-2100 Dinner (no host) at Day's Inn, University Ave., Riverside, CA. Discussion of current important issues in vegetation losses from air pollution, led by ARB staff.

Tuesday, September 13

0830-0900 Introductions and Overview of Purpose of Crop Loss Assessment Workshop

0900-1000 Overview of 1988-89 Crop Loss Project, including recent results from cotton and citrus project.

1000-1015 Break

1015-1200 Review of current research projects. Presentations by:

P. McCool, herbaceous crop and fruit tree studies.

L. Williams, fruit crop studies.

P. Temple, crop and Ponderosa pine study-Whittaker Forest

B. Takemoto, Tanbark Flat and Lake Isabella studies.

1200-1300 Lunch (no host) at Day's Inn or neighboring restaurant.

1300-1530 Round table discussion of critical issues for assessing air pollution losses to crops and forest trees.



APPENDIX F

**Abstract of Paper Presented
at Air and Waste Management Association Meeting
Anaheim, June 1989**

EFFECTS OF SMOG ON VALENCIA ORANGE TREES

David Olszyk, Gerrit Kats, C. Ray Thompson
Statewide Air Pollution Research Center
University of California, Riverside

The effects of smog on Valencia orange trees were determined with a long-term study conducted at the Citrus Research Center and Agricultural Experiment Station at U.C.R. Exposures to three levels of ambient ozone (the major pollutant in smog) were made using charcoal filtered, half-filtered, and nonfiltered air. Special "bubble-shaped" open-top field chambers were used to control the pollutant concentrations around the trees. Two year old trees were planted in 1983, exposures began in May, 1984, and terminated in August, 1988. Ozone dramatically reduced orange yields (total weight) for the first two harvests in 1986 and 1987, without any visible symptoms of ozone injury on leaves. The yield reduction was linearly related to ozone concentration, with ambient Riverside air producing a 26% reduction in yield vs. clean air. The reduced yield was related primarily to reduced number of fruit per tree and not individual fruit weight. The only effect of ozone on quality was a slightly more yellow color. Ozone had no effect on yields during what appeared to be an "off" production year in 1988. Ozone had effect on overall tree growth, leaf production, or leaf net photosynthetic rates. However, ozone increased leaf water stress and resulted in increased leaf starch concentrations prior to flowering. Thus, we hypothesized that ozone affected yields by stressing leaves, which resulted in their increased allocation of starch reserves toward maintaining leaves at the expense of fruit production.

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