

California Artichoke Advisory Board

2022-2023 Annual Report

The Board 2022-2027

Members

Michael Scattini

Chair

Bobby Bellew

Vice Chair

Ryan Kelly

Secretary/Treasurer

Benny Jefferson

Ed Mora

Paul Scheid

Adrian Zendejas

Alternates

Mike Rutledge

Garrett Cardilino

Ken Lazzerini

The board assists the California Department of Agriculture in the administration of the Marketing Order. All members are producers of California grown artichokes. Membership is at-large and not designated by district, county, or any other subdivision of the state. the California Department of Agriculture makes appointments to the board by considering representation from the state's various production areas.



The California Artichoke Advisory Board has supported the industry in promotion and research since 1960. Its current primary focus is to seek solutions for disease and insect problems through the Artichoke Research Association and for generic promotion of California grown Globe Artichokes through its web and social media sites:

www.artichokes.org

Facebook page:

<https://www.facebook.com/pages/category/Nonprofit-Organization/California-Artichoke-Advisory-Board-129982993683166/>.

Instagram: [#californiaartichokeadvisoryboard](https://www.instagram.com/californiaartichokeadvisoryboard) hashtag on [Instagram](https://www.instagram.com/californiaartichokeadvisoryboard) • [Photos and videos](https://www.instagram.com/californiaartichokeadvisoryboard)

BUDGET COMPARISON
Year Ending June 30, 2023

	BUDGET	ACTUAL	VARIANCE
REVENUE:			
Carry Over	\$65,275	64,760	515
Acreage Assessments @ \$1.00	4,695	4,291	404
Carton Assessments @ \$.045	155,000	152,591	2,409
Interest		0	0
Other Income	500	170	330
Total Revenue	\$225,470	\$221,812	\$3,658
EXPENDITURES:			
Administrative:			
Audits	7,725	8,500	-775
Insurance	1,350	1,228	122
Management Services	42,000	42,000	0
Office Expense	4,000	2,144	1,856
Postage	500	415	85
Promotion	35,000	32,387	5,613
Rent	5,400	5,400	-
Telephone	1,900	1,721	179
Travel	1,500	0	1,500
Utilities	720	720	-
Website	900	720	180
Program:			
Research	62,200	46,351*	15,849*
Departmental:			
Marketing Branch	19,400	14,615	4,785
Contingency/Reserves	20,000	0	20,000
Total Expenditures	\$202,885	\$156,525	\$49,360



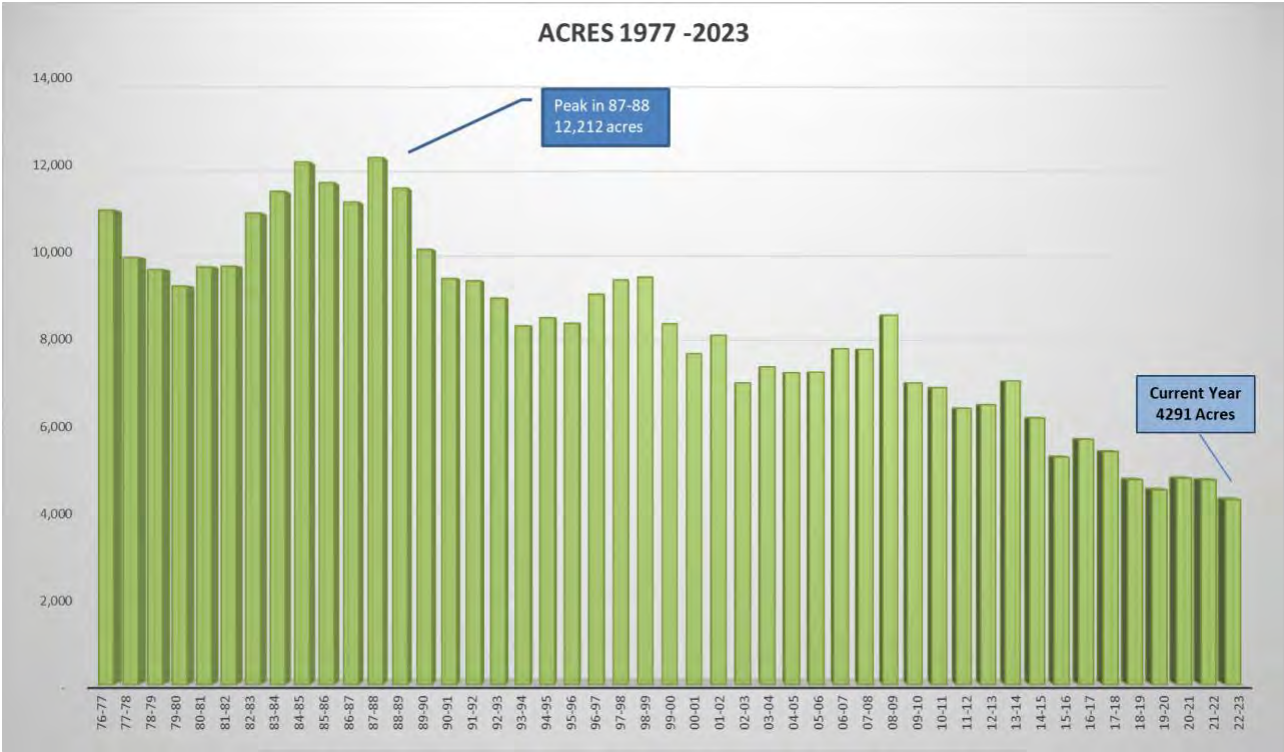
Budget Review

Anticipating an increase in research expenses for the coming year, the board approved a \$.05/carton assessment, a \$.005 increase from last year. The \$1.00/acre assessment rate has remained the same for several years and did not see an increase for this crop year. The carton assessment income for the 2022/2023 crop year was \$157,052 and the acreage assessment came in at \$4,291, both just slightly under the budgeted amount. The actual carryover for the year of \$64,760 was very close to the

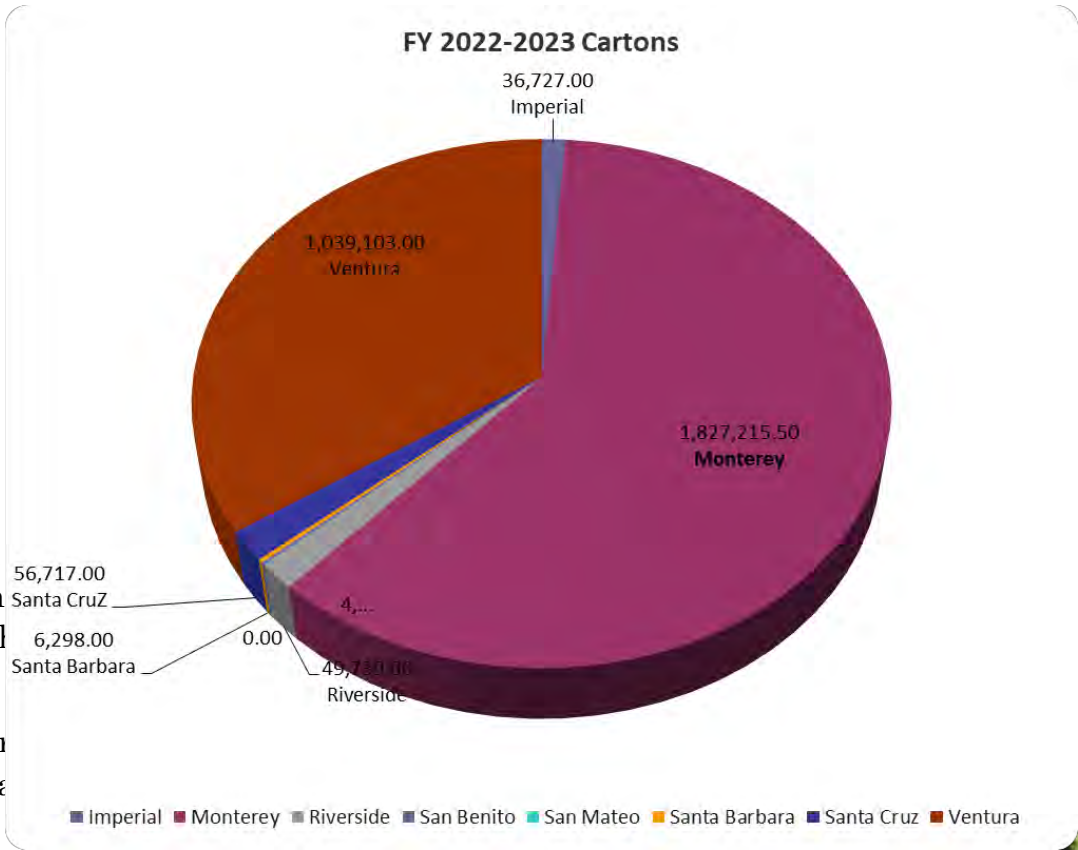
budgeted \$65,275. Savings of \$49,360 in operating expenses will boost the anticipated carryover for the next crop year.

Research was budgeted and expended at \$62,200 this year. There was a carryover credit of \$15,849 from the previous year, so actual expenditure for research was only \$46,351. Management costs were 21% of the planned budget and 27% of actual expenses. CDFA Marketing Branch

(including the required annual compliance audits) totaled 9.5% of the planned budget and 9.3% of actual expenses.



Total acreage for 2022-2023 was 4,291, producing 3,020,185 cartons.



The California
closely with an
studies through
Association.
Listed below as
2022-2023 fiscal



2022 – 2023 Research Program

- I. Senstar for control of artichoke plume moth (2 Sites)
- II. Evaluation of Surround for control of black tip on artichokes (2 Sites).
- III. Future Work Considerations



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Artichoke Plume Moth Control

- Senstar efficacy trial vs Asana (Valent Sponsor)
- Trials in Castroville and Marina



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Artichoke Plume Moth Control

- Applications were made to established artichokes grown on the Park Ranch (Marina) or Pazzini Ranch (Castroville)
- Sprayed biweekly three times starting October 4th, October 18th and November 3rd

TREATMENT LIST	
Untreated Check	
Senstar – 10 fl oz/a	
Senstar – 16 fl oz/a	
Asana – 9.6 fl oz/a	



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Artichoke Plume Moth Control - Marina

Foliar Feeding Severity



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Artichoke Plume Moth Control - Marina

Bud Feeding Severity

Trt	No	Product	Appl Rate	Appl Rate	10/17/2022	10/25/2022	11/1/2022	11/10/2022
No	Product	Rate	Unit	Code	13 DA-A	7 DA-B	14 DA-B	7 DA-C

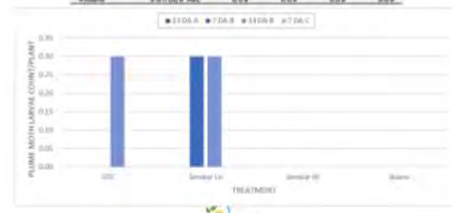


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Artichoke Plume Moth Control - Marina

Plume Moth Larvae Count/Plant

Trt	No	Product	Appl Rate	Appl Rate	10/11/2022	10/25/2022	11/1/2022	11/10/2022
No	Product	Rate	Unit	Code	13 DA-A	7 DA-B	14 DA-B	7 DA-C



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Artichoke Plume Moth Control - Castroville

Foliar Feeding Severity



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Artichoke Plume Moth Control - Castroville

Bud Feeding Severity



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Artichoke Plume Moth Control - Castroville

Plume Moth Larvae Count/Plant



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Artichoke Plume Moth Control – Feeding Damage



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Black Tip Control by Surround

Block 13– Surround applied to foliage and under plant
On-Site Trial – Surround applied at two rates; harvested



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Black Tip Control by Surround

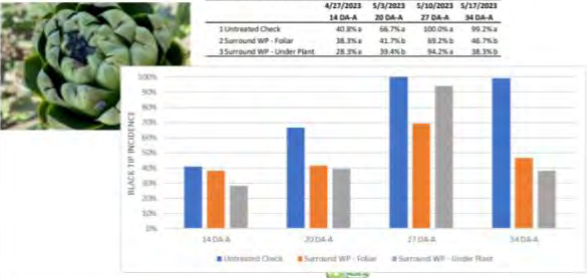
Black Tip Severity



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Black Tip Control by Surround – Block 13

Black Tip Incidence – percent of 30 rated buds for disease severity



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Black Tip Control by Surround – Block 13

Black Tip Incidence – percent of 30 rated buds for disease severity



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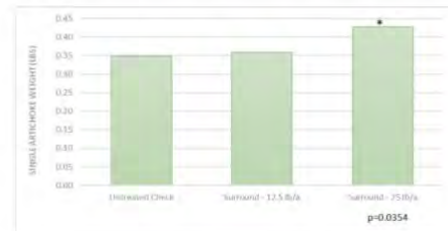
Black Tip Control by Surround – Spreckles



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Black Tip Control by Surround – Spreckles

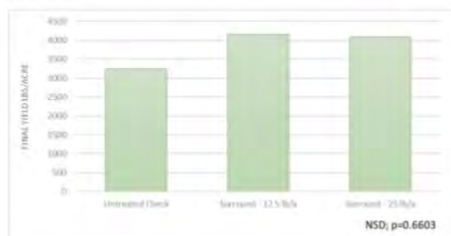
Average Bud Weight (lbs)



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Black Tip Control by Surround – Spreckles

Yield Weight (lbs) per Acre



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Black Tip Control by Surround – Spreckles

Black Tip Severity and Incidence from ten heads per plot

- average severity (% scale)
- incidence (percent of heads with symptoms)

	Black Tip	
	Severity	Incidence
1 Untreated Check	0.8% a	5.0% a
2 Surround - 12.5 lb/a	0.0% a	0.0% a
3 Surround - 25 lb/a	1.5% a	7.5% a

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Future Program Ideas

- Continue work on artichoke black tip
- Study decreased nitrogen fertilizer use to prepare to comply with Ag Order 4
 - Titration study – increasing nitrogen fertilizer to determine optimal rates
 - Slow-release fertilizer study
- Long term soil health survey
- IPM program viability study
- Subsurface applications of herbicide – Goatender and Chateau
- Ramularia fungicide screening
 - look at new chemistries and possibly older chemistries that are labeled for artichoke outside of California

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Possible Fungicide Products to Screen

Company	Trade Name	Type	Labelled In CA?	Labelled for Artichoke?	Active Ingredient	Possible Target	Organic/Conventional
Lesaffre	Romeo	Fungicide	Yes	No	Cerevisane	Foliar Disease	Organic
BASF	Cevya	Fungicide	Yes	No	Mefenflufenazone	Foliar Disease	Conventional
Marrone	Stargus	Fungicide	Yes	No	Bacillus Amyloliquefaciens	Foliar Disease	Organic
Syngenta	Aprovia Top	Fungicide	Yes	Yes	Benzovindiflupyr	Foliar Disease	Conventional
Marrone	Ennoble	Fungicide	No	No (Fruiting Veg)	Muscador albus	Soil borne pests	Organic
Agbiome	Howler	Fungicide	Yes	Yes	Pseudomonas	Foliar Disease	Organic
Syngenta	Miravis Prime	Fungicide	Yes	Yes	Pydiflumetofen	Foliar Disease	Conventional
Bayer/SipCam	Contans	Fungicide	Yes	No	Coniothyrium minitans strain CON/M/91-08	Sclerotinia	Organic
Valent	Elumin	Fungicide	No	Yes	Ethaboxam	Pythium	Conventional
BASF	Provysole, Veltyme	Fungicide	No	Yes	Mefenflufenazone	Blight	Conventional
Syngenta	Vayantis	Fungicide	No	Yes	Picarbutrazox	Pythium	Conventional

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Possible Insecticide/Herbicide Products to Screen

Company	Trade Name	Type	Labelled In CA?	Labelled for Artichoke?	Active Ingredient	Possible Target	Organic/Conventional
Gowan	Vida	Herbicide	No	Yes	Pyraflufen ethyl (ethyl 2-chloro-5-(4-chloro-5-difluoromethoxy-1-methyl-1H-pyrazol-3-yl)-4-fluorophenoxyacetate	Weeds	Conventional
BASF	Nurizma, Vectron	Insecticide	No	Yes	Broflanilide	Leps, chewing insects	Conventional
AgBiTech PTY LTD	Lepigen	Insecticide	No	Yes	Autographa Californica Multiple	Leps	Organic
AgBiTech PTY LTD	Surtivo	Insecticide	No	Yes	Nucleopolyhedrovirus Strain R3	Chrysodeixis includens	Organic
AgBiTech PTY LTD	Fawigen	Insecticide	No	Yes	Nucleopolyhedrovirus isolate #460	Leps	Conventional
Nichino, SePro	Torac, Bexar, Rycar, Hachi, Apta	Insecticide	No	Yes	Spodoptera Frugiperda Multiple	Leps	Conventional
Multiple	Delta Gold, Adjourn, more	Insecticide (pyrethroid)	No	Yes	Nucleopolyhedrovirus strain 3AP2	aphids, whitefly, leafminer, leps, PM, rust	Conventional
BASF	Versys/Seftina	Insecticide	Yes	No	Tolfenpyrad	Plume moth, leps	Conventional

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Fertilizer/Crop Enhancement Products

Product	Description
Kula-N Biofertilizer	Fixes N from atmosphere
Agro Mos	Micronutrient
Crop Set	Micronutrient
Rootex	Micronutrient
Sunergist EBR	PGR
HOMOBRASSINOIDE 0.1%	PGR
Stimplex, Soil Triggrr, Foliar Triggrr	Biostimulant
Stoller Products	Biostimulant
Locus	Biostimulant
MycosApply	Mycorrhizal Product

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Banned and Novel Products

Insecticides banned in CA with usage in US

- Chlorpyrifos (Associated with neurological developmental delays in children)
- Carbaryl (Bee toxicity)
- Neonicotinoids (Bee toxicity)

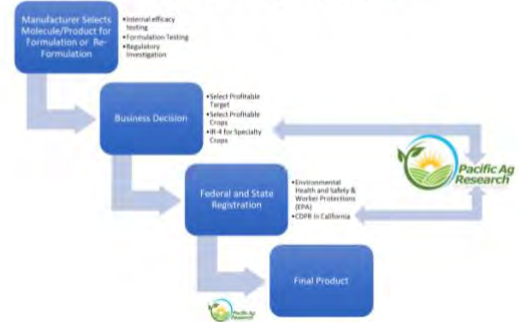
2022-23 New Products (none registered in US)

- Syngenta's SDHI (FRAC 7) fungicide/nematicide cyclobutrifluram with the trade name of Tymirum™
 - MOI similar to Boscalid (Pristine, Endura)
- BASF's insecticide dimpropridaz with the trade name of Axalion™
 - Controls whitefly and aphids
- Sumitomo Chemical's insecticide oxazosulflur with the trade name of Alles™
 - Controls young planthopper and lepidopterans

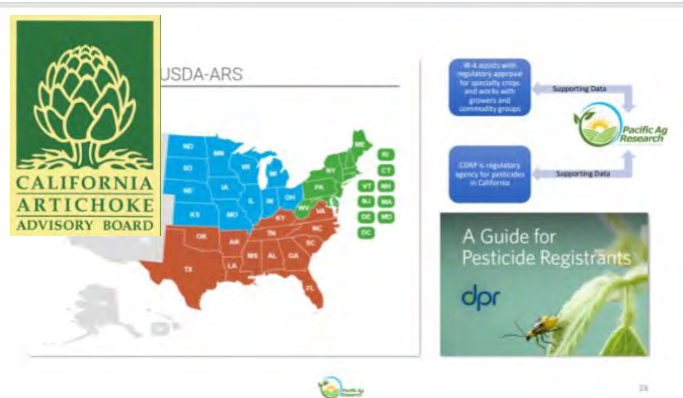


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Basic Steps to Product Registration



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The California Artichoke Advisory Board celebrates the artichoke at the 2023 Artichoke Festival



Since 1959, the Monterey Peninsula has come together to celebrate California's official state vegetable, the artichoke. California's artichoke history begins in 1922 when the first artichoke shoots were planted in Castroville. Nearly 100 percent of America's fresh artichoke supply is grown in California. In addition, nearly two-thirds are grown in the small town of Castroville.

The annual Artichoke Festival began in 1959 as a harvest festival to celebrate the iconic artichoke and the region known as the "Artichoke Center of the World." As a result, the festival became a primary source of funding for local non-profit groups that depend upon a successful event for their viability throughout the years.

The annual Artichoke Festival continues to support the heritage of Castroville's farming community.

The California Artichoke Advisory Board is a major sponsor of the festival. In addition, CAAB hosts a "Meet the Grower" booth where our growers volunteer their knowledge to answer all questions about artichokes from festival goers. Also, during the festival, CAAB hosts the presentation/demonstration "The ABCs of Artichokes" several times throughout the festival weekend. This presentation covers a variety of topics about artichokes from its history, how to shop for them, their nutritional value, how to prepare them for cooking to the various ways you can cook them.

