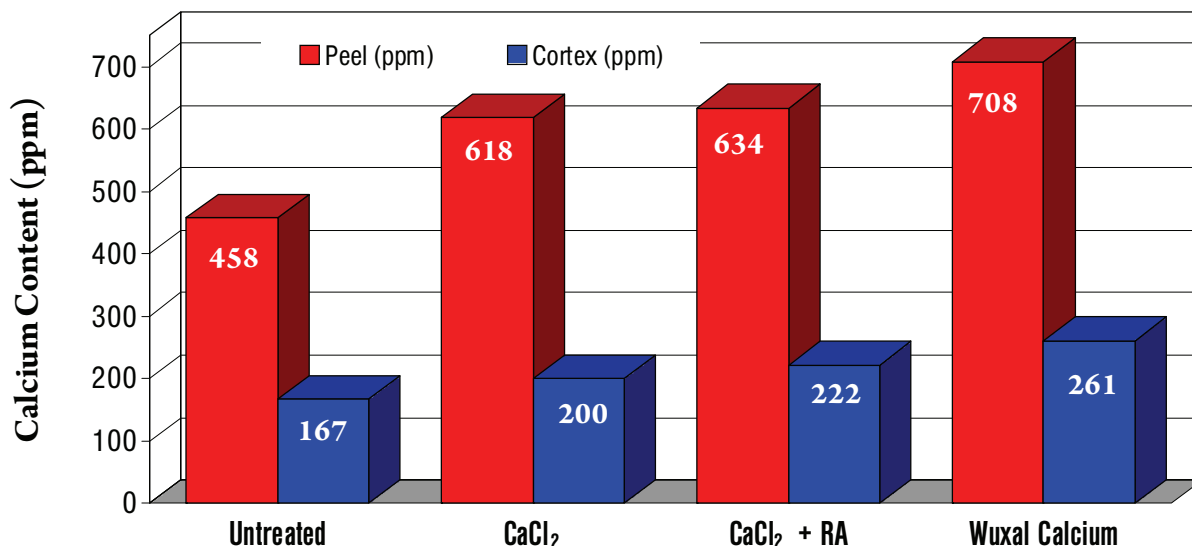


Performance Data: Apples and Pears

Calcium Uptake in Peel and Cortex Tissue



Location: Wenatchee, WA, USA

Season: 2000

Treatments:

Product	Rate	Timing	Change from UTC		Change from CaCl ₂	
			Peel	Cortex	Peel	Cortex
Untreated Control	NA					
Calcium Chloride	0.5% solution	8 times, petal fall to maturity	+35%	+11%		
Calcium Chloride + Regalaid*	0.5% solution	8 times, petal fall to maturity	+38%	+33%	+3%	+11%
Wuxal Calcium	1.0% solution	8 times, petal fall to maturity	+55%	+56%	+15%	+31%

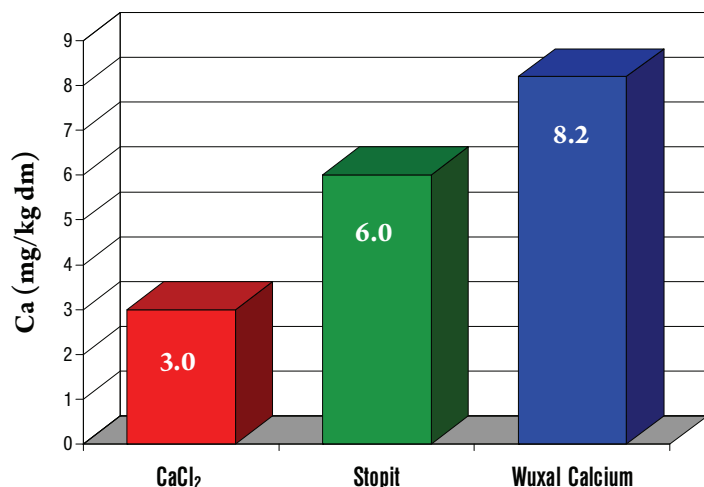
Variety: Golden Delicious

Cooperator: USDA Tree Fruit Research Laboratory.

Conclusion: Wuxal Calcium treated fruit had 15% higher Ca content in the peel and 31% higher Ca content in the cortex over CaCl₂. Wuxal Calcium treated fruit had 12% higher Ca content in the peel and 18% higher Ca content in the cortex over CaCl₂ with a common surfactant.

*Agricultural surfactant

Increase of Fruit Calcium from Different Formulations



Location: Warsaw, Poland

Season: 1996

Treatments:

Product	Change from CaCl ₂	Change from Stopit*
Calcium Chloride		
Stopit	+100%	
Wuxal Calcium	+173%	+36%

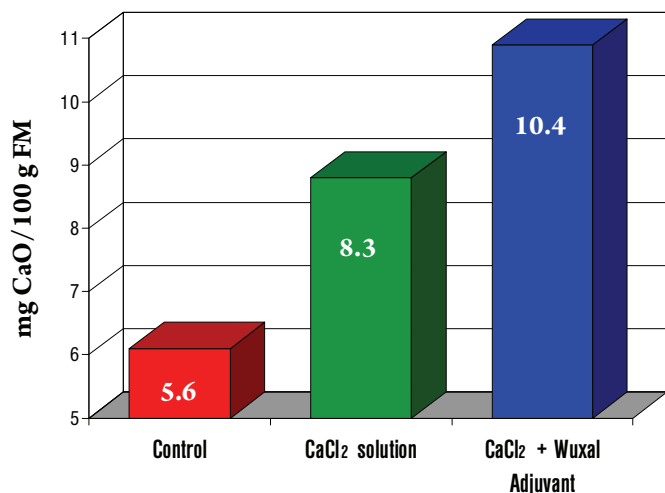
Cooperator: University of Warsaw, Fruit Science Dept.

Conclusion: Wuxal Calcium increased fruit calcium content 36% over Stopit, and 173% over CaCl₂.

*Stopit is manufactured by Sumi Agro.

Performance Data: Apples and Pears

Wuxal Penetrant Effect on Calcium Absorption



Location: Europe

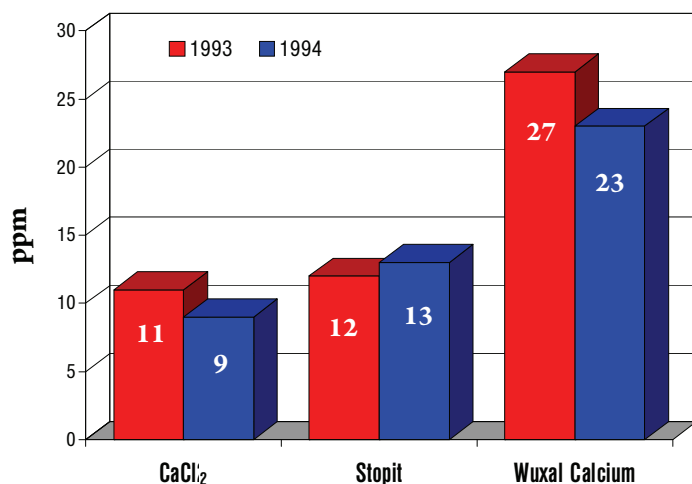
Treatments:

Product	Change from UTC	Change from CaCl ₂
Untreated control		
CaCl ₂ solution	+48%	
Wuxal Calcium	+86%	+25%

Variety: Jonagold

Conclusion: The adjuvant package from Wuxal Suspensions, if added to a CaCl₂ solution, increased the calcium uptake by 25% over the CaCl₂ solution.

Fruit Ca Increase from Ca Application



Location: Italy

Season: 1993 & 1994

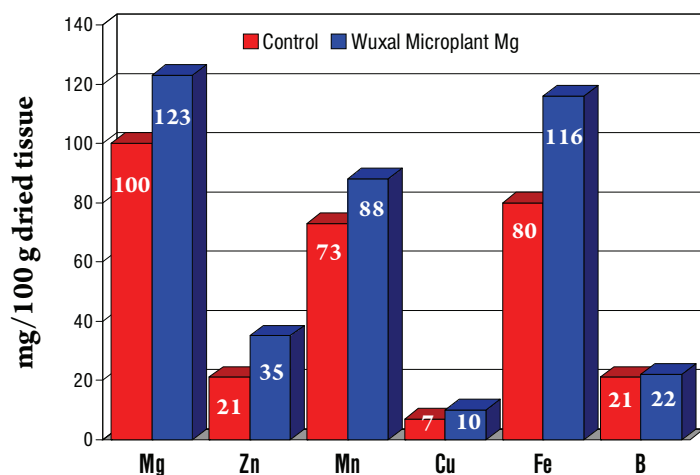
Treatments:	Lbs. Ca Applied	Yr	Change from CaCl ₂	Change from Stopit*
CaCl ₂	2.2	93/94		
Stopit	2.2	93	+9%	
	2.2	94	+44%	
Wuxal Calcium	2.2	93	+145%	+125%
	2.2	94	+155%	+77%

Cooperator: Tomala. *Acta Horticulturae* 448, 59-65.

Conclusion: On a 2 year average, 2.2 lb. of Ca from Wuxal Calcium increased Ca uptake 100% over a competitive formulated product and 150% over CaCl₂.

*Stopit is manufactured by Sumi Agro.

Improvement of Micronutrient Content



Location: Gorsem, Belgium

Treatments:

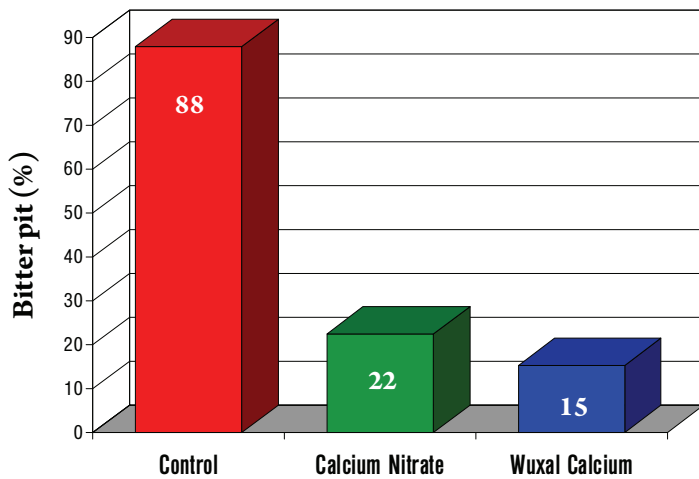
Product	Rate	Timing	Change from UTC
Wuxal	42 fl. oz/A	after petal fall	
Microplant Mg			Mg: +23%
			Zn: +66%
			Mn: +20%
			Cu: +30%
			Fe: +45%
			B: +4.5%

Variety: Jonagold

Cooperator: Independent research station.

Conclusion: Wuxal Microplant Mg increased the dried tissue content of key micronutrients after application.

Effect on Bitter Pit Incidence



Location: Argentina

Season: 1999

Treatments

Change from

Product

Rate

Frequency

UTC

Ca(NO₃)₂

Untreated Control

Calcium Nitrate

4.2 lb/A

6x

-75%

Wuxal Calcium

25.5 fl. oz./A

6x

-83%

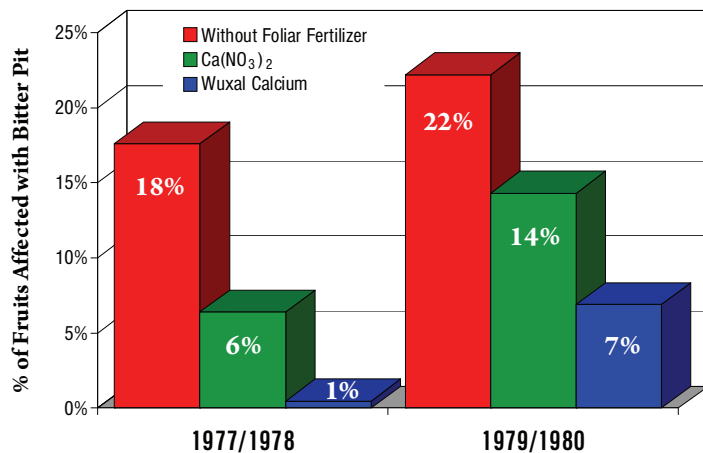
-32%

Variety: Granny Smith

Cooperator: INTA, Dr. E. Sanchez.

Conclusions: There was a 31.7% reduction in the incidence of bitter pit with Wuxal Calcium compared to calcium nitrate.

Effect of Foliar Nutrition and Calcium Source on Incidence of Bitter Pit in Apples



Season: Two, 2-year studies, 1977-78 & 1979-80

Treatments:

Product

Yr

Change from UTC

Change from Ca(NO₃)₂

Untreated Control

Calcium Nitrate

77/78

-64%

79/80

-36%

Wuxal Calcium

77/78

-97%

-92%

79/80

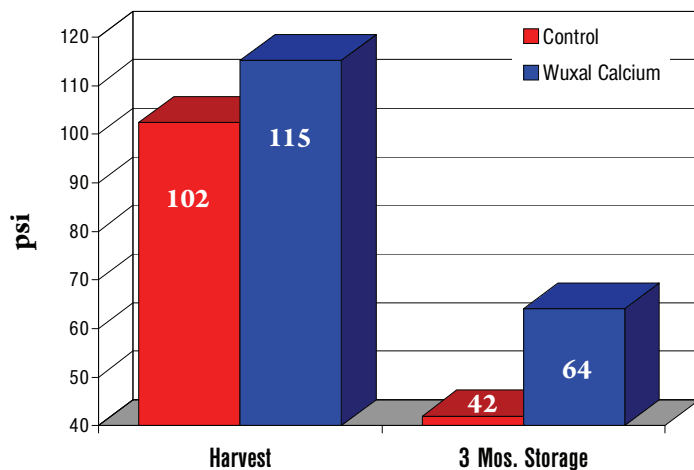
-69%

-52%

Cooperator: Aglukon Speziadünger Study

Conclusion: Wuxal Calcium has been delivering benefits to fruit growers around the world for over 30 years.

Fruit Firmness



Location: Warsaw, Poland

Season:

Treatments:

Product

Rate

Freq.

Firmness

Change from UTC

Untreated Control

Wuxal Calcium

51 fl. oz./A

4x

@ Harvest

+13%

@ 3 mos.

+52%

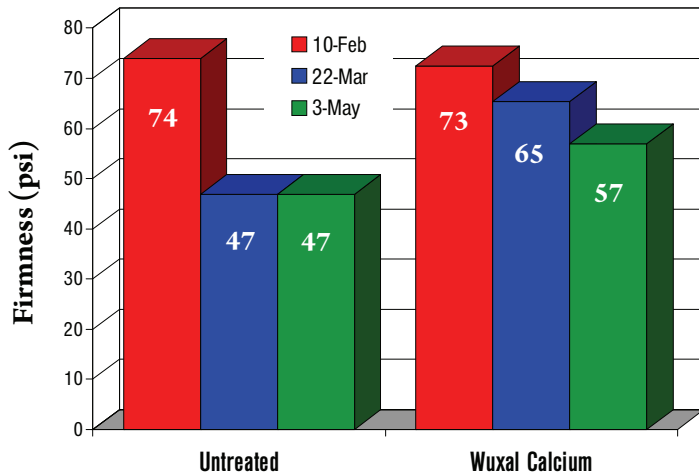
Storage

Variety: Champion

Cooperator: University of Warsaw.

Conclusion: Fruit treated 4 times during the season with Wuxal Calcium was 13% firmer at harvest and 52% firmer after three months in storage. Wuxal treated fruit went into storage firmer and retained its condition better.

Stabilization of Fruit Firmness of Pear



Location: Bologna, Italy

Treatments:

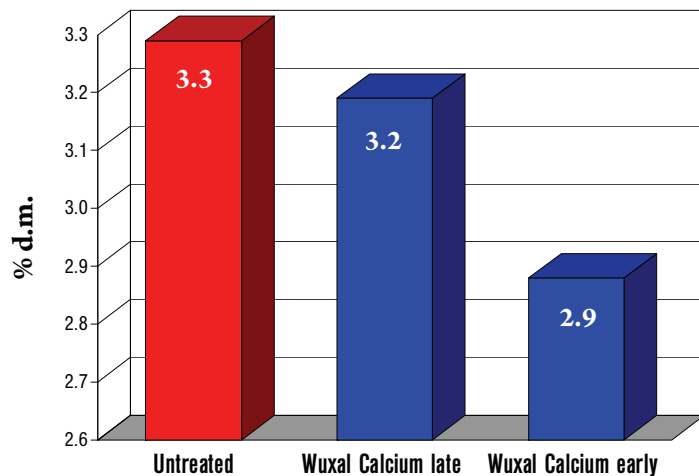
Product	Rate	Frequency	Change from UTC
Wuxal Calcium	44 fl. oz./A	6x	Feb. 10: -2%
			Mar. 22: +39%
			May 3: +21%

Variety: Abate Fetel

Cooperator: Agric. Coop.

Conclusions: Wuxal Calcium maintained pear firmness over a sustained period of storage

Effect of Wuxal Calcium Sprays on Nitrogen Content in Leaves



Location: Bad-Neuenahr-Ahrweiler, Germany Season: 1997

Product: Wuxal Calcium

Analysis date: August 8, 1997

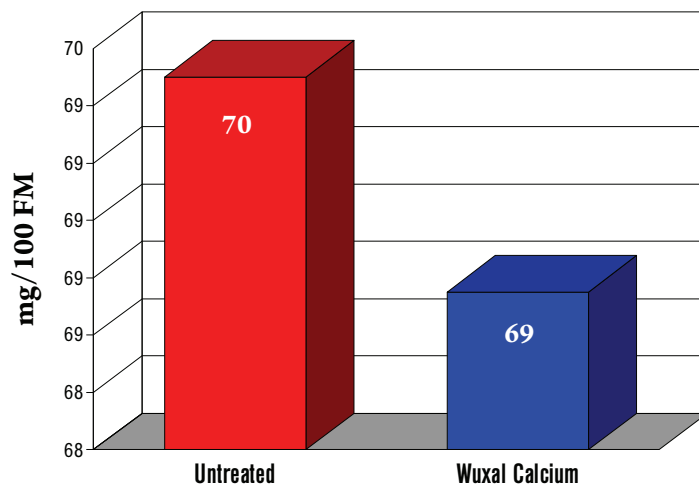
Timing	Frequency	Rate	Change from UTC
Petal fall to June	5x	68 fl. oz./A	-3%
July to harvest	5x	68 fl. oz./A	-12%

Variety: Cox

Cooperator: Fruit Research State.

Conclusion: Early or late season applications of Wuxal Calcium did not produce an increase in leaf nitrogen content which could be detrimental to plant vigor.

Effect of Wuxal Calcium Sprays on Nitrogen Content in Fruit



Location: Bad-Neuenahr-Ahrweiler, Germany Season: 1997

Product: Wuxal Calcium

Analysis date: October 15, 1997

Timing	Frequency	Rate	Change from UTC
Petal fall to June	5x	68 fl. oz./A	-1%

Variety: Cox

Cooperator: Fruit Research State.

Conclusion: Early season applications of Wuxal Calcium did not produce an increase in fruit nitrogen content which could be detrimental to product storage.