

Annual Report 2007/08

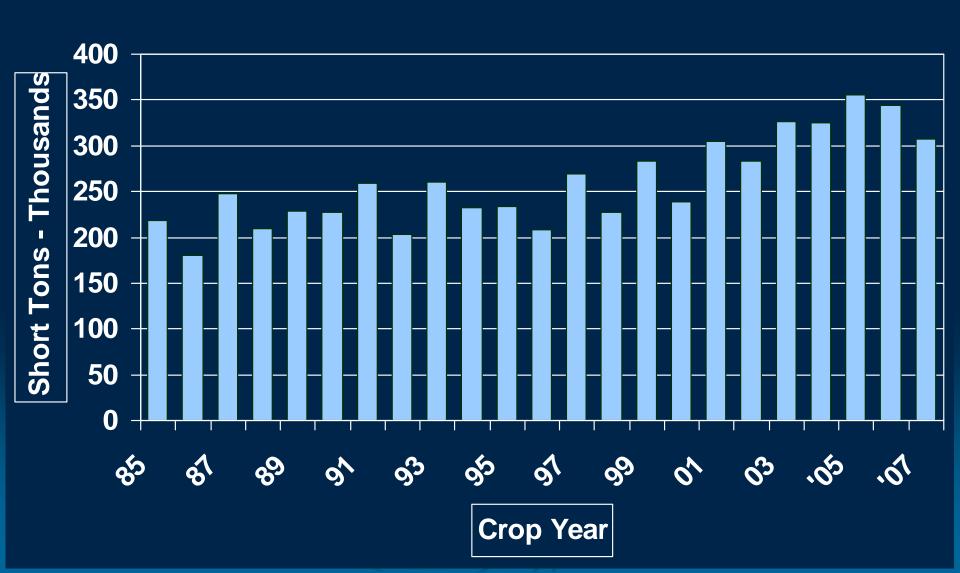
California Walnut Board & California Walnut Commission

Responsibilities and Activities

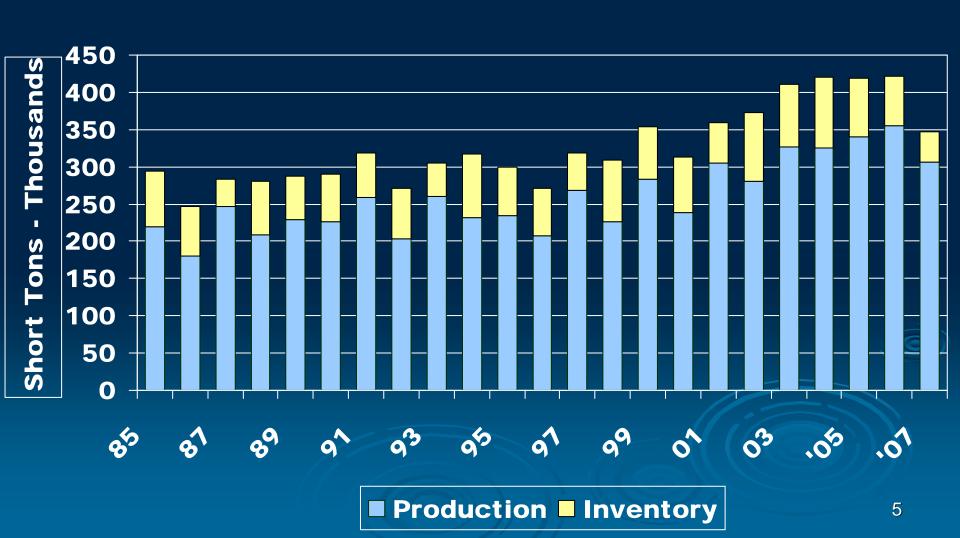
- Market Development
- Research
 - Health,
 - Production
 - Market Research
- Regulatory Matters
- ➤ Trade Policy Issues
- Serve the Industry



U.S. Walnut Production History

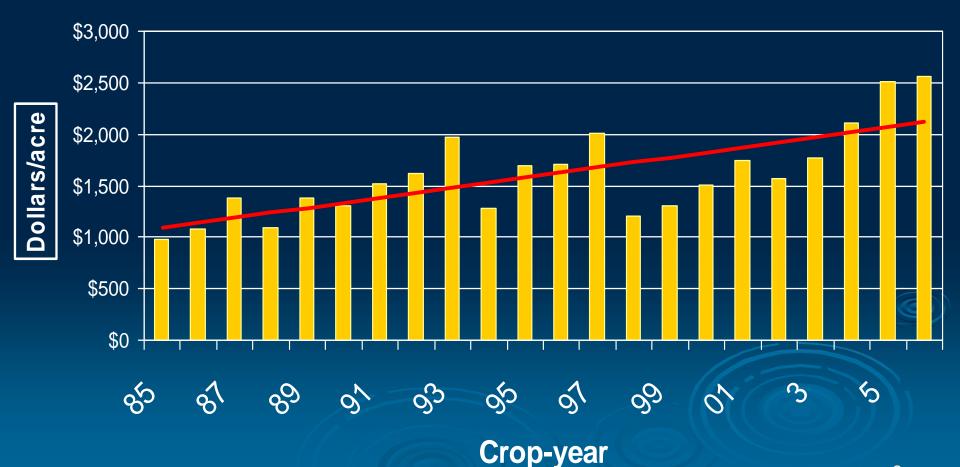


Total California Walnut Availability



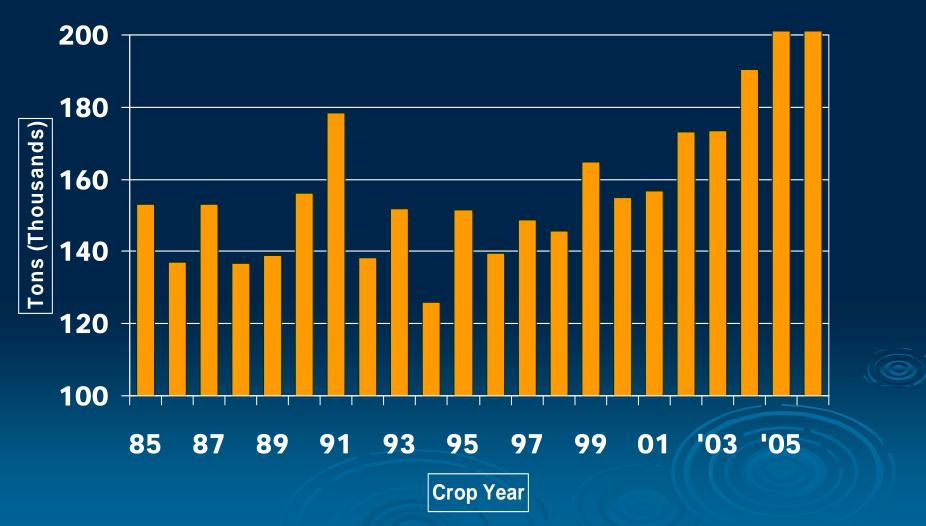
Higher Return with Large Crops

Average Revenue/Acre 1985/2002

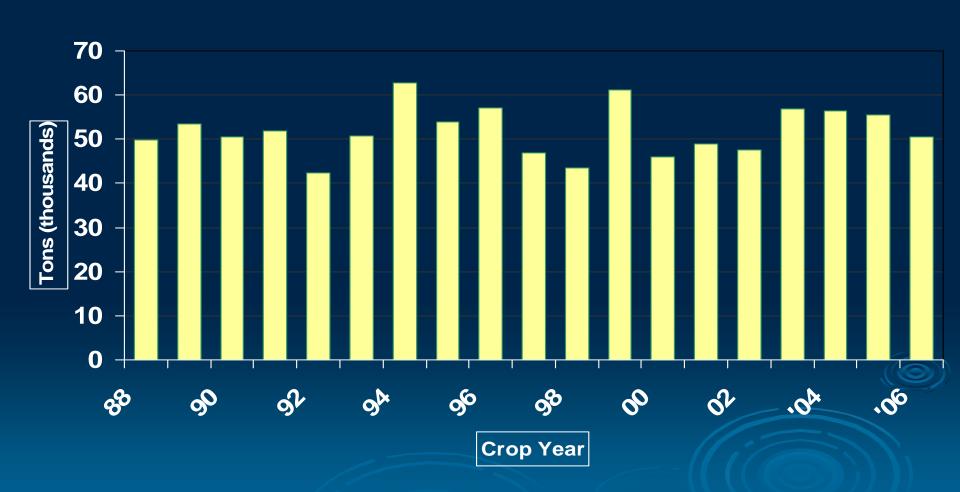




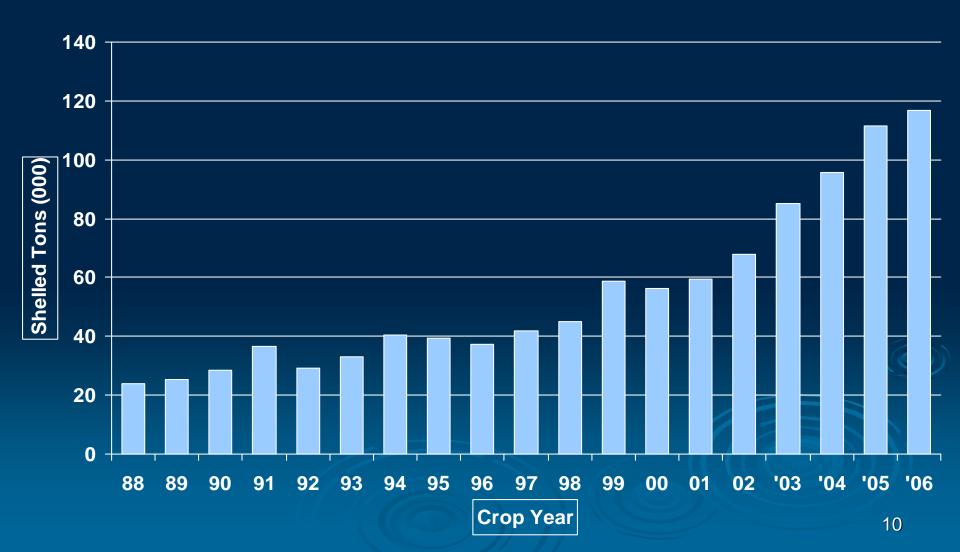
Total USA Shipment History



Inshell Walnut Exports



Shelled Walnut Exports Inshell Equivalent Tons

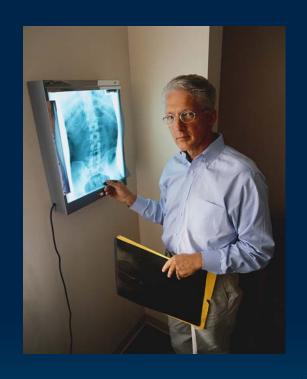


Walnut Health Research











Health Research Program History "In a Nutshell"

- First study 1992
- Focus on Heart Health
- Now have 17 published studies in many areas
 - Expanding into even more areas

Health research supports walnut consumption messaging

Assessing Media Value of PENDING PUBLICATIONS





Suppression of implanted MDA-MB 231 human breast cancer growth in nude mice by dietary walnut

- W. Elaine Hardman, PhD
 Marshall University School of Medicine
- Co-funded by American Institute for Cancer Research
- Walnut diet **significantly** reduced rate of implanted tumor growth in mice.
- Accepted to Nutrition and Cancer: An International Journal...should publish by June 2008





Effects of Omega-3s from Walnuts on Endothelial Function and Blood Pressure in Subjects with Hypercholesterolemia

- Sheila West, PhD, Penn State University
- Walnut diet significantly reduced diastolic blood pressure and flow mediated dilation increased These results suggest novel mechanisms for the cardioprotective effects foods containing omega-6 and omega-3 fatty acids.
- Expect publication in 2008



Low Media Value

The Effect of Walnut Intake on Factors Related to Prostate and Vascular Health in Older Men

- Terry Hartman, PhD, Penn State University
- Submitted to Nutrition Journal (an online journal)
- Study suggest that walnuts may improve biomarkers of prostate and vascular status. alpha-tocopherol: gamma tocopherol ratio
- Much Debate



Effects of Walnuts on Motor and Cognitive Function in Aging

- Dr. James Joseph, Tufts University
- Abstract received excellent press coverage at Neuroscience meeting in November
- Diets containing 2%, 6%, or 9% walnuts when given to old rats, were able to reverse several parameters of brain aging, as well as age related motor and cognitive deficits



High Media Value

Including Walnuts in Low Fat Dietary Advice Offers Metabolic Advantages for People with Type 2 Diabetes

- Dr. Linda Tapsell, University of Wollongong, Australia
- Subjects sustained weight loss, showed marked improvements in various clinical parameters. Study promotes whole food approach and emphasizes importance of PUFA in DM diet
- May submit to New England Journal of Medicine

9 New Studies Underway!

- Cancer Treatment
- Diabetes
- Heart Disease
- Body Weight
- Effects on Pregnancy
- Aging
- Metabolic Syndrome
- Antioxidant Capacity
- Mind/Brain Function

4 Studies Just Funded

- Various forms of Cancer
- The Whole Walnut versus the Components of Walnuts



Marketing Highlights - 2007





P.R. Program Efficiency

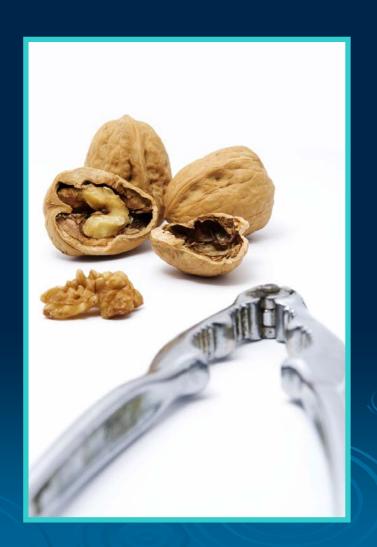
<u>Market</u>	<u>Impressions (in millions)</u>	<u>CPM</u>
Canada	57.3	.19
Germany	83.7	.23
Japan	1,117.	.25
Korea	301.	.24
Spain	82.3	.22
U.S.A.	2,837.	.33

U.S.A.

U.S. Public Relations

2006/07 Highlights

- Influenced Key
 Opinion Leaders
 - Michael Roizen, MD
 - Mehmet Oz, MD
 - Andrew Weil, MD
 - Bob Greene
 - Joy Bauer, MS, RD (Today Show)
- Credibility = News
- Internet Popularity



"You" Tour - Summer Event

Drs. Oz and Roizen host events in 5 cities reaching thousands

Focus on nutrition & health

Walnuts, nutrition
 brochures and
 giveaways used at all
 events

Created 1 on 1 interviews with consumers - used on the CWC website

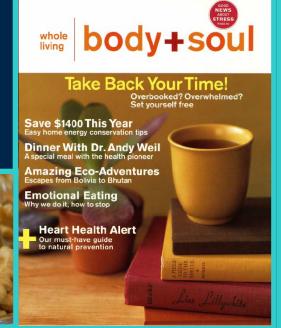


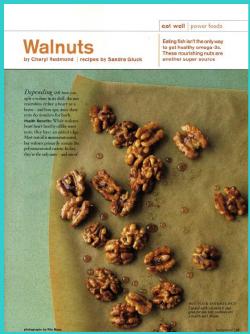
Health Professionals

- New Web Based Interactive CE Module
- Attendance at Trade Shows
 - SNA
 - ADA
 - AANP
 - American Dietetic Assoc. (FNCE)
 - CIA



Martha Stewart-BODY+SOUL





"In a nutshell: Loaded with omega-3s, antioxidants, and other disease-fighting nutrients, walnuts protect the heart and promote brain functioning."

October 2006

Canada

Canada

Trade mission included:

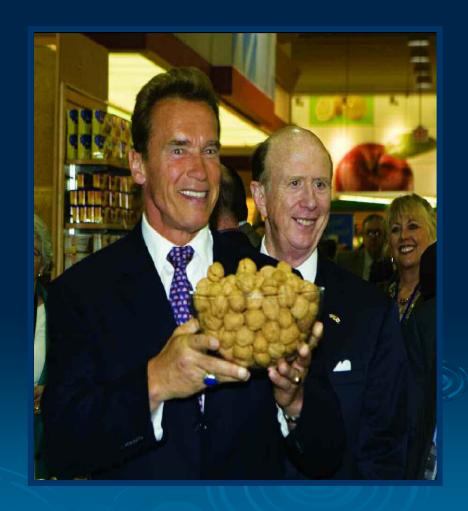
- Formal trade receptions
- Media event
- Photo ops at grocery stores

In-store demos featured:

- •Chopped Walnuts and Grapes on Crackers Spread with Light Cream Cheese
- Fresh Fig with Proscuitto,
 Gorgonzola with a Walnut Half.

Total media impressions: 3,476,500

Total editorial value: \$89,460



Canada

NDPC – February 18-20, 2007 Canadian/International Food & Beverage Show

Winning Products:

- Walnut and Fudge Crunch
- California Walnut Apple Breakfast Bread
- Walnut Caramel Pear Cake
- Walnut Crunch
- Muesli Multigrain Cereal
- California Walnut Stuffed Pasta with Fig and Prosciutto
 - Total media impressions:
 - **4,649,851**
 - Total editorial value:
 - > \$203,232



- Cooperation with Rewe, Germany's 3rd largest grocery retailer
- Walnuts featured in their annual 2008 calendar distributed to employees and customers.
- The April spread contains recipes & photos



PUTENSPIESS MIT CURRY-LIMETTEN-DIP

Por Parison, 2001, 2017,

481 g Potenschnited je 181 rote, geller and grüne Papillarischele

2 Schulotten

2 EL (II) Sale, straber Philler ausscher Mühle

FÜR DEN DURRY-UMETTEN DIP 88 g. kahlormuche Wahrlose 290 g. Joghant

Sufferin I Limetic and abgoridance Schole 1EL Gany 1271. Abstraction

14 Band Koriardin Sale, Pfathe aus der Michie Poise ache izelle mundjareche Wärlel acheiden. Papi kacheten auten, in Stäcke adv den Tomaten alzu War, Indicinen: Schaletten achillen, in Spalten acheiden, Verbenstett Zutaten und Leitenshölten auf Leitensche Spielle stecken.

2 Olivid Pfoffer aus der Müble verübene Spielle steret einpesseln. In einer Grögbenn ringene etwa 12-15 Minuten texten, dabe i häufig wenden.

Für des DyWaldine hat formed in dass Flavor alea Fatrioten. Aufwenn falle ach liturel auflähler lanzer, Jegiert wir Limetterschale und -auft, Dany and der Waldinsonanstinen. Wir Jak, Petter und Abermang akturenden. Entwicke abbraues, trockephiliterie Bildinien des Leiten. Deze der Der überen Deze ub der Fatrionalen wieben.



FEIGEN UND WALNUSS AMUSE-BOUCHE

FÜR 4 PORTIONEN

Religion 2001 cal (1901) (NE of well 28 of the New Yorkshop of the

106 g Edifernische Walnasskarne

105 g EddermacheWalnusdame (37.96cd) 8 Fegen

411. Bahran ersenzig 16 Schriker Farmaschieller, dänn geschreitten (zu. 125 g)

100 g Eurganeda 1 Walescokkerne haut fetfassin ninns Ffaren rüsten: Zum Ausküfelen auf einen Talles

If Freigns adoptibles, the constant results in Freignstein and in the action of the action of the action in the action and in the action and in the action and in the action action are action and action action acquired action actions acquired action actions.

 Gasgorgalaja Stäckahus teilen Laufslarilaur atracias. Auf jedes Fuggessi artel aina Walnusakarshiil te geben.

Day Esparitements



WALNUSS-ORSTSUPPE

FÜR APORTIONEN

on Street Street and the Street and

Oseger Og gråssWaktsadom

Og Man Weintrealen

Og Hinforen

Ig KabhrencheWahandere 10 g Gawk

HEL Meershamer 211 Zennersaft

000g Guegeradt EEL Hong

Walnushern our Bertraues

1 Dranges Fletierery Weintradon ha bioren und mit den Hindussen maschan.

2 Walmardone a sawr Plane about Fettlass enfates.

Dualt mit Missrals some Zittoren. Drangerauft and drei El. Hovig serriften.

4 Des El est seven El. Has system al degen und versidatig unter de Dia desischung sich en. 5 Deut in eines techn Teller gellen, Diadereich ang der Ehre geben, mit Wahn sides ein geen eine.





Nutrition Charts

- Developed a set of 12 nutrition charts explaining the effects of the different fatty acids on your body, the right use of fat and the opportunities of the omega 3 fatty acids California walnuts offer.
- Target groups are dieticians, nutritionists and other health professionals who need good, simple material to advise their patients.

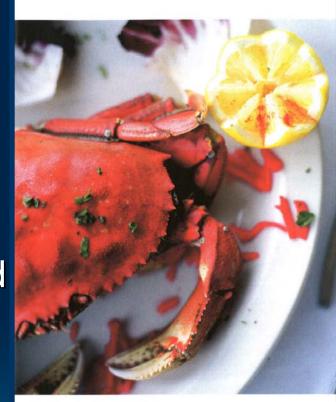




Lufthansa Business Class

Business Class Promotion with Lufthansa.

- "Taste the World", they featured California six months long in weekly rotating rhythms.
- "Taste California" guide featured California walnuts.
- Circulation of 50,000 distributed by flight attendants in European flights (longer than 150 minutes).



Taste California!

Korea

Most Recommended Food For (Korea) SAT Students



Abalone



Seaweed



Broccoli



Walnut



Energize Your Brain With Walnut!



- Imm - Limit에 아이전 |開展|| 바라나 나이트, 가게 12개나 시기업 20대는, 전체에서는도... 전는 메라리가에 2만속 부터 1년 등 역간 (開展)|| 바라나 10개는 10대를 맞기고 전기를 상에 3개 연간, 2명에 시기된 바라나, 개인 건가용을 받고 수이를 받은 전 원칙에 이 없을 걸었다고.

原理 구봉 사항 10, 성인장 - 건대는 전성당, 키디 슬러하스 1점 전통에 1 국장 사항은 중소하게 노했지만 구워 준비한다. 2 만스트에 성보면을 버뜨고 건대통을 도망한 위 키워 슬리이스 1목을 얻는다.





건강을 챙긴다. 먹기 중은 크기로 잘라 돌고 다니며 공복감이 있음 때이다 간식 대신 먹는다. 02 콜레스테를 수치를 낮춰주는 양파는 통재로 살아 좀야 함께 약



#40HH 1개 마른 두1HH - 마음 2개의 모마바시 - 사고 92HH 으템 IND 최조 1교수 한 물 기 1 설은 앗이 3대간 본러고 세6이에서은 세르로 2~3등은 해 참이를 반으로 자르고 함께 된다. 모고비서는 이지다면 함께 둘러 불기를 두 한 뒤 없게 채했고, 목이에서는 점에 둘러 딱딱한 부분을 먹고 1cm 교기를 받



무점 소는 1 에맨함 치조 70호 무의 경호, 레스크 수건을 건강 1억약을 이 미니 양매루는 쓴 것은 반으로 자르고 끝는 소급을에 10초간 대치 고 창물에 네워 봉기를 했다. ② 호우는 몸에 오랜드! ② 예만된 기소는 완료 단지기나 강반에 같고 나머지 째료와 고무 섞어

미니 양배추 치즈 무원

연근 발사믹 풍미 볶음

● 이렇게 준비하세요 ● ① 연근은 법진을 맺게 5mm 두배로 받고 식옷분에 5분 정도 담가 두었 다가 커의 불기를 당는다. 다가 전체 물기를 넣는다. ● 이렇게 만드세요 ● ○ === 요미브 오임을 두르고 연근을 복다가 발사의 식요와 간장을 넣 한 명이 됩니다. 어 좀더 묶는다. ED (D의 연근이 볶아지면 소금과 후춧가루로 간하고 불을 끈다.

5 何似语 口部 a 이기스트 권. 7 어머리한 경. 8 역류시공 시 10화라한 휴가

期間 智性 4世元 15年7月、京平 6年、弘一县 2四会年、信仰 15世会



4에 빨기와 되면지, 용에인 되우르트, 중을 넣고 간다.



에 시달리는 애한테 평 소 잘 안 먹던 보약을

챙겨 주느니 평소 식 단 위주로 영양분을 보 총해 주라"고 총고했

다. 15일 수능 당일 먹

용 점심 도시락도 마찬

가지였다. 며칠 전부

터 요리책을 뒤적이며

독별 요리를 구상하고

있는 김 씨에게 친구들 은 이구동성으로 "평 소 먹는 음식 위주로

싸 주라"고 조언했다. 그래도 뭔가 특별한 음 식물 해 주고 싶은 것 이 엄마 마음이다. 김

씨는 소화가 잔디고 영 양가도 풍부하고 맛이

좋은 '완벽 식단'을 구

합기용·소금·식용유·화대 가루 또는 김 가루 약간에 만들게 반**들기** I 마뜻한 반의 측임자의 참기론, 스관을 넣고 고무 위작인대사진 13. 소입다는 전에서는 가간에서는 발한 사람들이 하게 하게 하게 되었다. 모든 하게 하는 것이 되었다. 모든 하게 하는 것이 없었다. 모든 하게 되었다. 모든 것이 되었다. 모든 것



Incredible India

분야별 주요 뉴스

경치・경제 스포츠・언에 사회 경찰 제어들기 암체운전자 무인카메라로 적발...

성하느라 오늘도 머리 '데델박, 데션부 조치 입장 한 달만에 뒤... 한우 vs 수업 쇠고기 "100% 구별한다"

9 미교리인의

Yehoo! SHI의 운세 궁합·사주·진로

Korea

In-shell Walnut Market Opening

- Total 1.6 million pounds of in-shell walnuts were imported





Korea

New Products using walnuts



Pulmuone Salad Dressing



Pulmuone A Cup of Morning



Samlip Walnut Mini Me Bread



Sempio Ziller Cacao Walnut



Japan

Japan

- > Tie-in with KUME Natto
 - Traditional Health Food
 - Soy based for daily consumption
 - Some areas combine Natto & walnuts
 - KUME is the 3rd largest Natto Marketer
 - Intro included in-store promotion and media
 - KUME plans to launch another walnut item



Japan



Tie-in promotion with Dotour











Menus with Heart campaign

- We organized 5 press conferences in the main Spanish cities to present the recipe booklets developed for famous cooks and renowned cardiologists to promote a cardio-healthy diet and to remind the population of the health benefits of walnuts:
 - Barcelona- 16th of May
 - Bilbao- 22nd of May
 - Valencia- 7th of June
 - Madrid- 12nd of June
 - Marbella-13th of June



Menus with Heart campaign

Barcelona-Restaurant Caelis- The best restaurant in Catalonia 2006.





Bilbao: Etxanobe restaurant- 1 Michelin star







Great coverage of the Menu's with Heart campaign





Production & Post-Harvest Research

- > 2007/08 Budget \$650,000
- > Address the needs of the Growers
 - Orchard/Water management
 - Varietals Development
 - Entomology
 - Plant Pathology/Nematology
 - Post Harvest Issues

A Few PPHR Priorities

- New Varieties
 - Flower late
 - Harvest Early
 - High Meat Yield
 - Light Color
- Root Stock Diversity
 - Disease Resistance
- > Reduced Pesticide Use



Regulatory and Trade Policy Activities



Trade Policy

- > In-shell Access to Korea.
- The Free Trade Agreement with Korea will reduce duty from 30% to 0% in five years once passed by Congress.
- > WTO stalled
- Japan will lower duty but only within a WTO agreement

Regulatory Issues

- Continued negotiation on UN/ECE standards.
- Critical Use Exemption (CUE) for methyl bromide.
- Support broader specialty crop provisions in Farm Bill.
- Monitor and comment on Minimum Residue Levels (MRL's) country by country.

