



1776 Tribute Road, Suite 205  
Sacramento, CA 95815  
Office: 916.927.7223 Fax: 916.263.3341  
[www.calairs.com](http://www.calairs.com)

**AGENDA**  
**CALIFORNIA AUTHORITY OF RACING FAIRS**  
**LIVE RACING COMMITTEE MEETING**  
**JOHN ALKIRE, CHAIR**  
**11:00 A.M., TUESDAY, FEBRUARY 3, 2015**

Notice is hereby given that a meeting of the California Authority of Racing Fairs' Live Racing Committee will commence at 11:00 a.m., Tuesday, February 3, 2015. The meeting will be held in Sacramento. **No Conference Call**. 1776 Tribute Road, Conference Room, Sacramento, CA 95815

**AGENDA**

- I. Date, time and location of next meeting on: March 3, 2015.
- II. Public Comment.
- III. Approval of minutes.
- IV. Report, discussion and action, if any, on CARF 2015 Legislative program.
- V. Update on award of totalisator contract.
- VI. Report, discussion and action, if any, on Horsemen VIP Credentials Program.
- VII. Report, discussion and action, if any, on planning for recruitment in 2015.
- VIII. Report and Discussion on planning for 2015 racing operations.
- IX. Report and Discussion on CHRB racing license application schedules.
- X. Discussion regarding racing dates for 2016 and beyond.
- XI. Executive Director's Report

**CALIFORNIA AUTHORITY OF RACING FAIRS**  
**Live Racing Committee**  
**Tuesday, December 16, 2014**

**MINUTES**

A teleconference meeting of the California Authority of Racing Fairs (CARF) Live Racing Committee was held at 11:00 A.M., Tuesday, December 16, 2014. The teleconference meeting was hosted at the CARF offices, 1776 Tribute Road, Sacramento, California.

CARF Live Racing Committee members participating: John Alkire, Richard Conway, Jerome Hoban and Brian May.

Staff and Guests participating: Christopher Korby, Larry Swartzlander, Heather Haviland, Amelia White, Raechelle Gibbons, Louie Brown, Chris Carpenter, Randy Magee, Jeanne Wasserman, Dennis Miller, John Quiroz, Allen Aldrich, Caroline Titus and Richard Lewis.

**Agenda Item 1 – Date, Time and Location of Next Meeting: February 3, 2015.** The next CARF Live Racing Committee meeting will be held Tuesday, February 3, 2015 in Sacramento.

**Agenda Item 2 – Public Comment.** None.

**Agenda Item 3 – Approval of Minutes.** Mr. Hoban moved to approve the meeting minutes as presented. Mr. May seconded, unanimously approved.

**Agenda Item 4 – Report, Discussion and Action, if any, on CARF 2015 Legislative Program.** Mr. Brown reported that the California legislators were sworn in and assumed office the first Monday in December. They are currently on recess until Jan. 15, 2015.

Mr. Brown stated that a bill of note was introduced by Assemblymember Mike Gatto to initiate the framework needed to implement Internet poker. As written, the bill would only allow licenses for the tribal communities and existing card rooms. The current language does not discuss or give allowances for the horse racing industry to participate. Legislative staff will follow the bill closely when the legislature returns.

Mr. Brown reported that Assembly Speaker Toni Atkins announced the selection of committee chairs for the 2015-16 regular session. Assemblymember Adam Gray (D-Merced) is the new Chair of the Governmental Organization (G.O.) Committee. Assemblymember

Gray has a great relationship with his local fairs and will be a strong ally regarding fair and racing issues.

Mr. Korby reported that staff will recommend that the CARF Board of Directors adopt a 2015-16 legislative program that would include addressing Advanced Deposit Wagering (ADW) audits and increases to satellite wagering commissions.

**Agenda Item 5 – Report, Discussion and Action, if any, on Agency Budget and Agenda Item 6 – Discussions on Preliminary Planning for Summer Region 2015.** Mr. Korby reported that the proposed 2015 CARF Agency budget is included in the meeting packets along with the live racing component of the budget for the Committee's review. Mr. Korby noted that the racing component of the agency budget relates to the individual pro forma financial documents that were distributed to each fair in draft form. Mr. Korby stated that the framework of the pro formas could be reviewed and refined in a manner that would be helpful to each individual fair while becoming part of the agency budget process. He also noted that the pro formas are in the initial draft stage and that CARF staff would be working with each fair to refine further.

Mr. Alkire reported that the Big Fresno Fair received several requests from owners and trainers to add additional race dates to the existing Fresno meet. Mr. Alkire stated that a task group was formed to consider the concept and weigh the resulting information. The task group will have its first meeting tomorrow in Fresno.

Mr. Korby requested the confirmation from the group to report back to the CARF Board of Directors that the CARF Live Racing Committee held no objections to the proposed 2015 CARF agency budget as included in the meeting packet. Mr. Alkire asked the question of the group and affirmed Mr. Korby's request.

**Agenda Item 7 – Update on Request for Proposals for Statewide Totalisator System.** Mr. Korby reported that a working group of industry representatives is reviewing two Requests for Proposals (RFP's) from candidate tote companies for bids on a statewide totalisator system. The RFP's from Sportech Racing, LLC and Amtote International are being evaluated carefully and a decision should be made within the next 10 days.

Mr. Korby stated that if a change occurs in the tote service provider, the changeover will be conducted in the fall/winter of 2015 and CARF staff will work closely with the live racing and satellite network to manage any structural modifications required well in advance of the implementation date. Mr. Korby stated that the RFP specifies that satellite wagering facilities will install any new machines in late fall 2015 but that CARF live racing fairs will not be affected until the 2016 meets.

Mr. Korby stated that the initial site surveys are underway to determine the scope of work that might be required to accommodate a change in wagering terminals. He also noted that financial responsibility for changes to satellite facility pari-mutuel windows is still being negotiated. Tracks and racing fairs will be financially responsible for changing window specifications at live racing sites. Mr. Hoban stated that under the specifications of the RFPs, modifications might still be required if the contract remains with Sportech since updated equipment will be provided. Mr. Hoban asked if there was a preliminary cost associated with the possible changeover so that live racing fairs could prepare for the expense. Mr. Korby replied that he is working to determine the cost, but that initial reports indicate that the modifications to most windows will be minimal.

**Agenda Item 8 – Executive Director’s Report.** Mr. Korby reported that CARF will be hosting a member reception during the WFA Convention in Reno on Tuesday, January 13, 2015 from 5:30 to 6:30 p.m. in Crystal Room 5. Mr. Korby stated that invitations would be distributed to the membership and encouraged fair managers and staff to attend.

Mr. Korby asked if Mr. Lewis would update the group regarding Sonoma County Fair’s 2015 racing schedule. Mr. Lewis stated that the plan is to race three weeks, but how those weeks would fall in relation to the fair is still being discussed. Mr. Lewis stated that Sonoma County Fair staff has scheduled a meeting for early January to discuss the racing schedule in detail. Mr. Lewis stated that the number of days run per week would depend on the Golden Gate Fields horse population in early 2015.

Respectfully submitted,  
Heather Haviland

# CA Authority of Racing Fairs Legislative Report - Last 10 Days 1/23/2015

IV.

[AB 9](#)

**(Gatto D) Gambling: Internet poker: unlawful gambling activity.**

**Current Text:** Introduced: 12/1/2014 [pdf](#) [html](#)

**Introduced:** 12/1/2014

**Status:** 1/16/2015-Referred to Com. on G.O.

**Location:** 1/16/2015-A. G.O.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

**Summary:** (1) Existing law, the Gambling Control Act, provides for the licensure of certain individuals and establishments that conduct controlled games, as defined, and for the regulation of these gambling activities by the California Gambling Control Commission. The Department of Justice has related investigatory and enforcement duties under the act. Any violation of these provisions is punishable as a misdemeanor, as specified. This bill, which would be known as the Internet Poker Consumer Protection Act of 2015, would establish a framework to authorize intrastate Internet poker, as specified. The bill would authorize eligible entities to apply to the commission for a 10-year nontransferable license to operate an intrastate Internet poker Web site offering the play of authorized Internet poker games to registered players within California, as specified. The bill would require that the license be automatically renewed every 10 years upon application, as specified. The bill would prohibit the offer or play of any gambling game provided over the Internet that is not an authorized Internet poker game permitted by the state pursuant to this bill. The bill would provide that it is unlawful for a person to aggregate computers or any other device with Internet access capabilities in a place of public accommodation within the state, including a public or private club or other association, in a public or private setting, that can accommodate multiple players to simultaneously play authorized games on the Internet, or to promote, facilitate, or market that activity. The bill would provide that any violation of the Internet Poker Consumer Protection Act of 2015 is punishable as a misdemeanor. By creating new crimes, the bill would impose a state-mandated local program. This bill contains other related provisions and other existing laws.

**Organization**      **Position**  
CARF                      Watch

[AB 167](#)

**(Jones-Sawyer D) Gambling: Internet poker: unlawful gambling activity.**

**Current Text:** Introduced: 1/22/2015 [pdf](#) [html](#)

**Introduced:** 1/22/2015

**Status:** 1/22/2015-Read first time. To print.

**Location:** 1/22/2015-A. PRINT

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

**Summary:** Existing law, the Gambling Control Act, provides for the licensure of certain individuals and establishments that conduct controlled games, as defined, and for the regulation of these gambling activities by the California Gambling Control Commission. The Department of Justice has related investigatory and enforcement duties under the act. Any violation of these provisions is punishable as a misdemeanor, as specified. This bill, which would be known as the Internet Poker Consumer Protection Act of 2015, would establish a framework to authorize intrastate Internet poker, as specified. The bill would authorize eligible entities to apply for a 4-year license to operate an authorized poker Web site offering the play of authorized Internet poker games to registered players within California, as specified. The bill would require that the license be automatically renewed every 4 years upon application, as specified. The bill would prohibit the offer or play of any gambling game provided over the Internet that is not an authorized Internet poker game permitted by the state pursuant to these provisions. The bill would provide that it is unlawful for a person to aggregate computers or any other Internet access device in a place of public accommodation within the state, including a club or other association, or a public or other setting, that can accommodate multiple players to simultaneously play an authorized Internet poker game, or to promote, facilitate, or market that activity. The bill would provide that any violation of the Internet Poker Consumer Protection Act of 2015 is punishable as a felony. By creating new crimes, the bill would impose a state-mandated local program. This bill contains other related provisions and other existing laws.

**Organization**      **Position**  
CARF                      Watch

[SB 135](#)

**(Berryhill R) Gambling.**

**Current Text:** Introduced: 1/22/2015 [pdf](#) [html](#)

**Introduced:** 1/22/2015

**Status:** 1/22/2015-Introduced. Read first time. To Com. on RLS. for assignment. To print.

**Location:** 1/22/2015-S. PRINT

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

IV.

**Summary:** The Gambling Control Act provides for the licensure and regulation of various legalized gambling activities and establishments by the California Gambling Control Commission and the investigation and enforcement of those activities and establishments by the Department of Justice. Existing law makes related findings and declarations. This bill would make technical, nonsubstantive changes to these provisions.

Organization	Position
CARF	Watch

**Total Measures: 3**

**Total Tracking Forms: 3**

# 2014 VIP HORSEMEN CREDENTIALS

hang on rearview mirror facing forward



Fairs are not responsible for damage to or loss of vehicle, its contents or accessories for any reason whatsoever. Improperly parked vehicles may be impounded at owner's expense.



HUMBOLDT COUNTY FAIR

STATE FAIR CALIFORNIA



## ALAMEDA COUNTY FAIR (Pleasanton)

From 680, take Bernal Exit East to Valley Avenue and enter Gate 12 on the right. Continue straight until the road dead-ends and park in either the VIP Lot or to the right in the Owner/Trainer Lot.

## CALIFORNIA STATE FAIR (Sacramento)

From Exposition Blvd., turn south on Ethan Way (at Chevron Station) to Cal Expo Gate 12 at the junction of Ethan Way and Hurley Way. Parking is available on a first come first served basis in Lot 17 across the back road from the south turn of the racetrack.

## HUMBOLDT COUNTY FAIR (Ferndale)

From Main Street, turn west onto Van Ness Street and enter the Horsemen's Gate on the left. Park near the Racing Office.

## SAN JOAQUIN COUNTY FAIR (Stockton)

Enter Gate 5 on Charter Ave (next to the Corp Yard). The Parking lot is next to the Jock's Room, south of the Grandstand. Racing Office parking is off Gate 2 on B Street.

## BIG FRESNO FAIR (Fresno)

Enter the Butler Avenue Gate at Maple Avenue. Park in the designated area on Butler Avenue near the Racing Office.

For assistance, please contact  
Larry Swartzlander (916) 799-7084 or Tom Doutrich (415) 271-4613



Thank you for racing at our Fairs

HORSEMENS HOTLINE (877) 722-3071 | [www.CalFairs.com](http://www.CalFairs.com)

Thank you for racing at our Fairs



TOM DOUTRICH  
(415) 271-4613  
LARRY SWARTZLANDER  
(916) 799-7084

This badge grants special grounds access to VIP Horsemen. Special accommodations and events will vary by location. Please refer to the brochure in your welcome packet or call for details.



VIP  
2014  
HORSEMEN  
CARF FAIR CIRCUIT







PLEASANTON  
June 19-July 6 (12 Days)

SACRAMENTO  
July 11-20 (7 Days)

FERNDAL  
August 13-24 (6 Days)

STOCKTON  
September 19-28 (6 Days)

FRESNO  
October 2-13 (9 Days)

Tom Doutrich (Racing Secretary):  
(415) 271-4613

Larry Swartzlander (COO):  
(916) 799-7084

Vicki Layne (Paymaster):  
(916) 715-8642

Toll-Free Entries:  
(877) 722-3860

### STARTER BONUS

\$50 Starter Bonus for each Thoroughbred and Emerging Breed Start.

### OUT-OF-STATE HORSES

\$300 1st start, \$150 2nd start  
(\$150/\$150 Ferndale).

### VIP PROGRAM

VIP Program provides one parking pass/credential for the CARF Fair Circuit, special access and other perks. Contact the Racing Secretary for details.

Thoroughbred Trainer

**INCENTIVE\$ UP TO \$5,500 BONUS!**

**Thoroughbred Trainers** making 5-9 starts during Oak Tree at Pleasanton, Ferndale (TB & EB), Stockton and Fresno will receive a **\$500 Bonus** at each meet where they reach the start requirement.

Trainers making 10 or more starts will receive a **\$1,000 BONUS.**

**Thoroughbred Trainers** making 5-9 starts at Cal Expo will receive an **\$800 Bonus.**

Trainers making 10 or more starts will receive a **\$1,500 BONUS.**

# 2014 RACING FAIRS



[www.CALFAIRS.com](http://www.CALFAIRS.com)





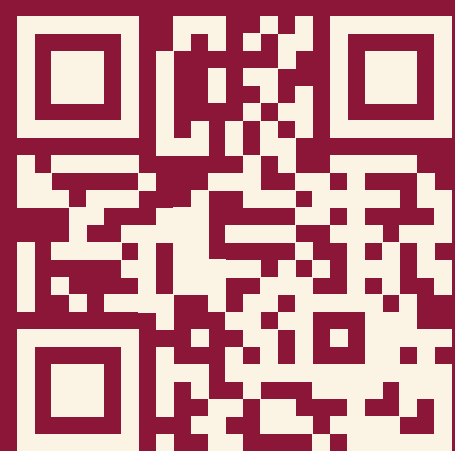


# Get Eligible!

**Four Starter Allowance Races will be run during the 2014 Fresno Fair.**

## Eligible Tracks

- Pleasanton
- Sacramento
- Santa Rosa
- Humboldt
- Golden Gate
- Stockton
- Fresno



# 2014 CARF STARTERS

**Race 1** *Starter Allowance Race\**  
Fillies and Mares • Three Year Olds and Upward

**Friday, October 10**  
Distance: Six Furlongs

**Race 2** *Starter Allowance Race\**  
Three Year Olds and Upward

**Friday, October 10**  
Distance: Six Furlongs

**Race 3** *Starter Allowance Race\**  
Fillies and Mares • Three Year Olds and Upward

**Saturday, October 11**  
Distance: One Mile & One Eighth

**Race 4** *Starter Allowance Race\**  
Three Year Olds and Upward

**Sunday, October 12**  
Distance: One Mile & One Quarter

\* Horses that have started for a claiming price of \$8,000 or less and have been claimed in Northern California from June 19-October 13, 2014 will remain eligible.

## DETAILS...

- Races limited to ten (10) starters
- Should a race overfill, first preference will be given to the horses with the highest money earnings in Northern California from June 19- October 13, 2014 (at eligible meets)
- The Racing Secretary will decide all inquiries

PURSE FOR EACH FINAL RACE WILL BE ESTIMATED AT

**\$25,000**



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schedules  
available  
online.



**Come  
Race!**

## RACE ON THE Northern California Fair Circuit! ★★★★★

- Oak Tree at Pleasanton June 19-July 6
- California State Fair (Sacramento) July 11-20
- Humboldt County Fair (Ferndale) August 15-24
- San Joaquin County Fair (Stockton) September 19-28
- Big Fresno Fair (Fresno) October 2-13



**www.CALFAIRS.com**

Tom Doutrich, Racing Secretary (415) 271-4613

★★  
**Northern  
California  
Fair  
Circuit!**



**Come  
Race!**

BONUS UP TO  
**\$5,500**

## Thoroughbred Trainer INCENTIVES\$

### \$500 BONUS

- Oak Tree at Pleasanton • Stockton
- Ferndale (TB & EB) • Fresno

For trainers making 5-9 starts  
at each meet where they reach  
the start requirement.

**\$1,000** for 10 or more starts

**\$50 STARTER BONUS**  
for each Thoroughbred and  
Emerging Breed Start

**\$800 BONUS** at Cal Expo  
For trainers making 5-9 starts  
at each meet where they reach  
the start requirement.

**\$1,500** for 10 or more starts

### OUT-OF-STATE HORSES

\$300 1st start, \$150 2nd start  
(\$150/\$150 Ferndale).



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Tom Doutrich, Racing Secretary (415) 271-4613

**NEW!**

TRAINER  
INCENTIVES\$  
\$500 bonus at  
each fair for  
5-9 starts and  
\$1,000 bonus  
at each fair for  
10 or more  
starts.

★★  
**Come  
Race!**

Northern California FAIR CIRCUIT | 4 Stakes RACES | 1 of them for \$100,000 | 1 of them for \$75,000

STOCKTON (Sept. 19-28)

- 9/27 Stockton Asparagus Stakes (3YO) 6 Furlongs - \$50,000

FRESNO (Oct. 2-13)

- 10/5 Harris Farms Stakes (3YO & up, Cal-Breds) 6 Furlongs - \$100,000 (Golden State Series)
- 10/11 The Harvest Stakes (F&M, 3YO & up) 6 Furlongs - \$50,000 (includes \$15,000 to Cal-breds)
- 10/12 The Bulldog Handicap (3YO & up) 1 & 1/8 Miles - \$75,000



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Tom Doutrich, Racing Secretary (415) 271-4613

STATE OF CALIFORNIA  
CALIFORNIA HORSE RACING BOARD  
**APPLICATION FOR LICENSE TO CONDUCT A HORSE RACING MEETING OF A CALIFORNIA FAIR**  
CHRB-18 (Rev.07/11)

Application is hereby made to the California Horse Racing Board (CHRB) for a license to conduct a horse racing meeting of a California fair as authorized by Article 6.5 of the California Business and Professions Code, Chapter 4, Division 8, Horse Racing Law, and in accordance with applicable provisions and the California Code of Regulations, Title 4, Division 4, CHRB Rules and Regulations.

**1. APPLICANT FAIR ASSOCIATION**

A. Name, mailing address, telephone, and fax numbers of fair:

B. Fair association is a: ☐ District Fair ☐ County Fair ☐ Citrus Fruit Fair  
☐ California Exposition and State Fair ☐ Other qualified fair

C. Provide the name, telephone, and email address for the fair contact person:

**NOTICE TO APPLICANT:** Application must be filed not later than 90 days before the scheduled start date for the proposed meeting pursuant to CHRB Rule 1433.

**2. DATES OF RACE MEETING**

A. Inclusive dates allocated for race meeting:

B. Actual dates racing will be held:

C. Dates racing will **NOT** be held:

D. Total number of racing days:

E. Days of the week races will be held:  
☐ Wed - Sun ☐ Tues - Sat ☐ Other (specify)

**3. RACING PROGRAM**

A. Total number of races:

B. Number of races by breed:

<input type="checkbox"/> Thoroughbreds	<input type="checkbox"/> Quarter Horses	<input type="checkbox"/> Appaloosas
<input type="checkbox"/> Arabians	<input type="checkbox"/> Paints	<input type="checkbox"/> Mules

**CHRB CERTIFICATION**

Application received:  
Reviewed:

Hearing date:  
Approved date:  
License number:

## C. Number of races daily:

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Thoroughbred							
Other Breeds							
Total							

## D. Total number of stakes races by breed:

Thoroughbreds       Quarter Horses       Appaloosas  
 Arabians       Paints       Mules

## E. Attach a listing of all stakes races and indicate the date to be run and the added money or guaranteed purse for each.

## F. Will provisions be made for owners and trainers to use their own registered colors?

Yes     No      If no, what racing colors are to be used:

## G. List all post times for the daily racing program:

**NOTICE TO APPLICANT:** Every licensee conducting a horse racing meeting shall each racing day provide for the running of at least one race limited to California-bred horses, to be known as the "California-bred race" pursuant to CHRB Rule 1813.

**4. FAIR ASSOCIATION**

## A. Names of the fair directors:

## B. Names of the directors serving on the Racing Committee or otherwise responsible for the conduct of the racing program:

## C. Name and title of the fair manager or executive officer and the names and titles of all department managers and fair staff, other than those listed in 12B, who will be listed in the official program:

## D. Name and title of the person(s) authorized to receive notices on behalf of the fair association and the mailing and email address of such person(s).

**5. TAKE OUT PERCENTAGE**

1. Will the percentage deducted for any type of wager be adjusted pursuant to Business and Professions Code section 19601.01? If no, proceed to subsection 6. If Yes, identify the wager and the proposed takeout percentage.

Yes  No

Wager(s) to be adjusted: \_\_\_\_\_

Proposed percentage: \_\_\_\_%

- A. Attach copy of written notice requesting the proposed takeout adjustment, the proposed percentage and the wager(s) affected. The notice must include the written agreement of the fair association and the horsemen's organization for the meeting of the fair association accepting the wager.

**NOTICE TO APPLICANT:** Pursuant to Business and Professions Code section 19601.01 notwithstanding any other provision of law, a thoroughbred association or fair, upon the filing of a written notice with, and approval by, the board specifying the percentage to be deducted, may deduct from the total amount handled in the pari-mutuel pool for any type of wager an amount of not less than 10 percent nor more than 25 percent. The written notice shall include the written agreement of the thoroughbred association or fair and the horsemen's organization for the meeting of the thoroughbred association or fair accepting the wager. The established percentage to be deducted shall remain in effect until the filing of a subsequent notice with, and approval by, the board, unless otherwise specified in the notice.

## 6. HANDLE HISTORY

1. Complete the table below providing the last five years of handle and attendance for the fair association. If your association has been operating for fewer than five years, provide information for the period of time it has been in operation.

Year	Handle	Attendance

## 7. PURSE PROGRAM (Excluding supplements, nominations, sponsorships, and starter fees):

### A. Purse distribution:

1. All races other than stakes:  
 Current meet estimate:  
 Prior meet actual:  
  
 Average Daily Purse ( $7A1 \div \text{number of days}$ ):  
 Current meet estimate:  
 Prior meet actual:
2. Overnight stakes:  
 Current meet estimate:  
 Prior meet actual:  
  
 Average Daily Purse ( $7A2 \div \text{number of days}$ ):  
 Current meet estimate:  
 Prior meet actual:
3. Non-overnight stakes:  
 Current meet estimate:



Prior meet actual:

4. Total Purses: (7A1+7A2+ 7A3)  
 Current meet estimate:  
 Prior meet actual

Average Daily Purse (7A3 ÷ number of days):  
 Current meet estimate:  
 Prior meet actual:

- B. Funds to be generated for all California-bred incentive awards (including breeder awards and owners premiums):  
 Current meet estimate:  
 Prior meet actual:

- C. Payment to each recognized horsemen's organization contracting with the fair:

Current meet estimate:

Prior meet actual:

CTT  
 TOC  
 NTRA  
 PCQHRA  
 CWAR  
 ARAC  
 AMRA  
 CHBPAPEN  
 CTHF  
 Total

Total

- D. Amount from all sources to be distributed at the meeting in the form of purses or other benefits to horsemen (7A+7B+7C):  
 Current meet estimate:  
 Prior meet actual:

Average Daily Purse (7D ÷ number of days):  
 Current meet estimate:  
 Prior meet actual:

- E. Purse funds to be generated from on-track handle and intrastate off-track handle (excluding carry-overs from prior race meet(s):  
 Current meet estimate:  
 Prior meet actual:

Average Daily Purse (7E ÷ number of days):  
 Current meet estimate:  
 Prior meet actual:

- F. Purse funds to be generated from interstate handle:  
 Current meet estimate:

Prior meet actual:

Average Daily Purse ( $7F \div$  number of days):

Current meet estimate:

Prior meet actual:

G. Bank and account number for the Paymaster of Purses' purse account:

H. Name, address, email and telephone number of the pari-mutuel audit firm engaged for the meeting:

**NOTICE TO APPLICANT:** All funds generated and retained from on-track pari-mutuel handle which are obligated by law for distribution in the form of purses, breeders' awards or other benefits to horsemen, **shall not** be deemed as income to the fair and **shall**, within 3 calendar days following receipt, be deposited in a segregated and separate liability account in a depository approved by the CHRB and shall be at the disposition of the Paymaster of Purses, who shall pay or distribute such funds to the persons entitled thereto. All funds generated from off-track simulcast wagering, interstate wagering, and out-of-state wagering which are obligated by law for distribution in the form of purses and breeders' awards, shall also be deposited within 3 calendar days following receipt into such liability account. In the event the fair is obligated to the payment of purses prior to those obligated amounts being retained from pari-mutuel wagering for such purpose, or as a result of overpayment of earned purses at the conclusion of the meeting, the fair shall transfer from its own funds such amounts as are necessary for the Paymaster of Purses to distribute to the horse owners statutorily or contractually entitled thereto. The fair is entitled thereafter to recover such transferred funds from the Paymaster of Purses' account; and if insufficient funds remain in the account at the conclusion of the meeting, the fair is entitled to carry forward the deficit to its next succeeding meeting as provided by Business and Professions Code section 19615(c) or (d). In the event of **underpayment** of purses which results in a balance remaining in the Paymaster of Purses' account at the conclusion of the meeting after distribution of amounts due to horsemen and breeders and horsemen's organizations, the fair may carry forward the surplus amount to its next succeeding meeting; provided, however, that the amount so retained does not exceed an amount equivalent to the average daily distribution of purses and breeders' awards during the meeting. All amounts in excess shall be distributed retroactively and proportionally in the form of purses and breeders' awards to the horse owners and breeders having earned purses or awards during the conduct of the meeting.

## 8. STABLE ACCOMMODATIONS

A. Number of usable stalls available for racehorses at the track where the meeting is held:

B. Minimum number of stalls believed necessary for the meeting:

C. Total number of usable stalls to be made available off-site at approved auxiliary stabling areas or approved training centers:

D. Name and location of each off-site auxiliary stabling area and the number of stalls to be maintained at each site:

E. Attach each contract or agreement between the fair and the person(s) furnishing off-site stabling accommodations for eligible racehorses that cannot be provided stabling on-site.

Complete subsections F through H if the fair will request reimbursement for off-site stabling as provided by Business and Professions Code sections 19607, 19607.1, 19607.2, and 19607.3; otherwise, proceed to section 9.

F. Total number of usable stalls made available on-site for the **1986** meeting, pursuant to Business and Professions Code section 19535(c).

G. Estimated cost to provide off-site stalls for this meeting. Show cost per-day per stall:

H. Estimated cost to provide vanning from off-site stalls for this meeting. Show fees to be paid for

vanning per-horse:

## 9. PARI-MUTUEL WAGERING PROGRAM

- A. Is the fair applicant a member of the California Authority of Racing Fairs (CARF)? If yes, attach a copy of the CARF recommended wagering format. Yes ☐ No ☐
- B. Pursuant to Business and Professions Code section 19599, and with the approval of the CHRB, fairs may elect to offer wagering programs using CHRB Pari-mutuel Rules, the Association of Racing Commissioners International (RCI) Uniform Rules of Racing, Chapter 9, Pari-mutuel Wagering, or a combination of both. Please complete the following schedule for the types of wagering other than WPS and the minimum wager amount for each. If applicant is a member of CARF, also indicate if wager is a part of the CARF recommended wagering format:

Use DD for daily double, E for exacta (special quinella), PK3 for pick three, PK4 for select four, PNP for pick (n) pool, PPN for place pick (n), Q for quinella, SF for superfecta, TRI for trifecta, and US for unlimited sweepstakes (pick 9).

	TYPE OF WAGERS	APPLICABLE RULES	CARF WAGERING FORMAT
Example Race	\$1 E; \$1 Double	CHRB #1959; RCI #VE	Yes No
Race #1			
Race #2			
Race #3			
Race #4			
Race #5			
Race #6			
Race #7			
Race #8			
Race #9			
Race #10			
Race #11			
Race #12			
Race #13			

- C. Maximum carryover pool to be allowed to accumulate before its distribution **OR** the date(s) designated for distribution of the carryover pool:
- D. List any options requested with regard to exotic wagering:
- E. Will "advance" or "early bird" wagering be offered? ☐ Yes ☐ No
- If yes, when will such wagering begin. Specify days and time for "early bird" wagering:
- F. Type(s) of pari-mutuel or totalizator equipment to be used by the fair and the simulcast organization, the name of the person(s) supplying equipment, and expiration date of the service contract:

## 10. ADVANCE DEPOIST WAGERING (ADW)

- A. Identify the ADW provider(s) to be used by the fair for this race meeting:
- B. Attach a copy of the agreement/contracts with each ADW provider to be used for this race meeting.
- C. Have the contract/agreements been approved by the respective horsemen's groups?  
 Yes ☐ No ☐  
 If yes, attach a copy of the approval.  
 If no, explain the status of the approval.

**NOTICE TO APPLICANT:** Pursuant to Business and Professions Code section 19604, ADW providers may accept wagers on races conducted in California from a resident of California if: 1) the ADW provider is licensed by the Board; 2) a written agreement allowing those wagers exists with the racing association or fair conducting the races on which the wagers are made; 3) the agreement shall have been approved in writing by the horsemen's organization responsible for negotiating purse agreements for the breed on which the wagers are made. ADW providers may accept wagers on races conducted outside of California from a resident of California if: 1) the ADW provider is licensed by the Board; 2) there is a hub agreement between the ADW provider and one or both of (i) one or more racing associations or fairs that together conduct no fewer than five weeks of live racing on the breed on which wagering is conducted during the calendar year during which the wagers are placed and (ii) the horsemen's organization responsible for negotiating purse agreements for the breed on which wagering is conducted.

## 11. SIMULCAST WAGERING PROGRAM

- A. Simulcast organization engaged by the fair to conduct simulcast wagering:
- B. Attach the agreement between the fair and simulcast organization permitting the organization to use the fair's live audiovisual signal for wagering purposes and providing access to its totalizator for the purpose of combining on-track and off-track pari-mutuel pools.
- C. California simulcast facilities the fair proposes to offer its live audiovisual signal:
- D. Out-of-state wagering systems the fair proposes to offer its live audiovisual signal:
- E. Out-of-state wagering systems that will combine their pari-mutuel pools with those of the fair:
- F. California mini-simulcast facilities the fair proposes to offer its live audiovisual signal:
- G. List the host tracks from which the fair proposes to import out-of-state and/or out-of-country thoroughbred races. Include the dates imported races will be held and whether or not a full card will be accepted. If the full card will not be imported, state "selected feature and/or stakes races":

**NOTICE TO APPLICANT:** Business and Professions Code section 19596.2(a) stipulates that on days when live thoroughbred or fair racing is being conducted in the state, the number of thoroughbred races which may be imported by an association or fair during the calendar period the association or fair is conducting its racing meeting cannot exceed a combined daily total of 50 imported thoroughbred races statewide. The limitation of 50 imported thoroughbred races per day statewide does not apply to those races specified in Business and Professions Code section 19596.2(a)(1), (2), (3) and (4).

### THOROUGHBRED SIMULCAST RACES TO BE IMPORTED

Name of Host Track	Race Dates	Full Card or Selected Feature and/or Stakes Races
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- H. List imported simulcast races the fair plans to receive during the racing meeting which use breeds other than the breed of the majority of horses racing at its live horse racing meeting. Include the

name of the host track, the dates imported races will be held, and how many races will be imported:

#### OTHER BREED SIMULCAST RACES TO BE IMPORTED

Name of Host Track	Breed of Horse	Race Dates	Number of Races to be Imported
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- I. If any out-of-state or out-of-country races will commence outside of the time constraints set forth in Business and Professions Code sections 19596.2 and 19596.3, attach a copy showing agreement by the appropriate racing association(s).

**NOTICE TO APPLICANT:** All interstate wagering to be conducted by a fair is subject to the provisions of Title 15, United States Codes, which require specific **written** approval of the CHRB and of the racing commission having jurisdiction in the out-of-state venue. All international wagering to be conducted by a fair is subject to the provisions of Business and Professions Code sections 19596, 19596.1, 19596.2, 19596.3, 19601, 19602, and 19616.1, and will require specific written approval of the CHRB.

Every fair shall pay to the simulcast organization within 3 calendar days following the closing of wagering for each racing program, or upon receipt of the proceeds, such amounts that are retained from off-track simulcast wagering, interstate and out-of-state wagering and which are obligated by statute for guest commissions, simulcast operator's expenses and promotions, equine research, local government in-lieu taxes, and stabling and vanning deductions. Every fair shall pay to its Paymaster of Purses' account within 3 calendar days following the closing of wagering for each racing program, or upon receipt of the proceeds, such amounts that are retained or obligated from off-track simulcast wagering, interstate and out-of-state wagering for purses, breeders' awards or other benefits to horsemen. (See Notice to Applicant, Section 7.)

## 12. RACING OFFICIALS, OFFICIALS, AND OFFICIATING EQUIPMENT

- A. Racing officials nominated:
  - Association Veterinarian(s)
  - Clerk of Scales
  - Clerk of the Course
  - Film Specialist
  - Horse Identifier
  - Horseshoe Inspector
  - Paddock Judge
  - Patrol Judges
  - Placing Judges
  - Starter
  - Timer
- B. Management officials in the racing department:
  - Director of Racing
  - Racing Secretary
  - Assistant Racing Secretary
  - Paymaster of Purses
  - Others (identify by name and title)
- C. Name, address, email and telephone number of the reporter employed to record and prepare transcripts of hearings conducted by the stewards:
- D. Photographic device to be used for photographing the finish of all races, name of the person supplying the service, and expiration date of the service contract:
- E. Photopatrol video equipment to be used to record all races, name of the person supplying the



service, and expiration date of the service contract. Specify the number and location of cameras for dirt and turf tracks.

- F. Type of electronic timing device to be used for the timing of all races, name of the person supplying the service, and expiration date of the service contract:

### **13. SECURITY CONTROLS**

- A. Name and title of the person responsible for security controls on the premises. Include an organizational chart of the security department and a list of the names of security personnel and contact telephone numbers.
- B. Estimated number of security guards, gatemen, patrolmen or others to be engaged in security tasks on a regular full-time basis:
1. Attach a written plan for enhanced security for graded stakes races, and races of \$100,000 or more, to include the number of security guards in the restricted areas during a 24-hour period and a plan for detention stalls.
  2. Detention Stalls:
    - A. Attach a plan for use of graded stakes or overnight races.
    - B. Number of security guards in the detention stall area during a 24-hour period.
    - C. Describe number and location of surveillance cameras in detention stall area.
  3. TCO2 Testing:
    - A. Number of races to be tested, and number of horses entered in each race to be tested.
    - B. Plan for enhanced surveillance for trainers with high-test results.
    - C. Plan for detention stalls for repeat offenders.
    - D. Number of security personnel assigned to the TCO2 program.
- C. Describe the electronic security system.
1. Location and number of video surveillance cameras for the detention stall and stable gate.

### **14. EMERGENCY SERVICES**

- A. Name, address and emergency telephone number of the ambulance service to be used during workouts and the running of the races:
1. Attach a certification from the Ambulance Company(s) listed in 14A, certifying that the paramedic staff are licensed with the California Emergency Medical Services Authority.

- B. Name, address and emergency telephone number of the ambulance service to be used during workouts at auxiliary sites:
  - 1. Attach a certification from the Ambulance Company(s) listed in 14B, certifying that the paramedic staff are licensed with the California Emergency Medical Services Authority.
- C. Describe the on-track first aid facility, including equipment and medical staffing:
- D. Name and emergency telephone number of the licensed physician on duty during the race meeting:
- E. Name, address and emergency telephone number of the hospital to be used for admittance and treatment of emergency injuries in the event of an on-track injury to a jockey:
- F. Attach, in English and Spanish, the emergency medical plan procedures that will be posted in each jockey's room to be used in the event of an on-track injury to a jockey:
- G. Name of health and safety manager and assistant manager responsible for compliance of health and safety provisions pursuant to Business and Professions Code section 19481.3(d):
- H. Attach a fire clearance from the fire authority having jurisdiction over the premises.
- I. Name of the workers' compensation insurance carrier for the fair and the number of the insurance policy (if self-insured, provide details):
- J. Attach a Certificate of Insurance for workers' compensation coverage. The CHRB is to be named as a certificate holder and given not less than 10 days' notice of any cancellation or termination of insurance that secures the liability of the fair for payment of workers' compensation.

**NOTICE TO APPLICANT:** Every licensee conducting a horse racing meeting shall pursuant to Business and Professions Code section 19481.3 maintain, staff, and supply an on-track first aid facility, that may be either permanent or mobile, and which shall be staffed and equipped as directed by the board. A qualified and licensed physician shall be on duty at all times during live racing, except that this provision shall not apply to any quarter horse racing at the racetrack if there is a hospital situated no more than 1.5 miles from the racetrack and the racetrack has an agreement with the hospital to provide emergency medical services to jockeys and riders. An ambulance licensed to operate on public highways provided by the track shall be available at all times during live racing and shall be staffed by two emergency medical technicians licensed in accordance with Division 2.5 (commencing with Section 1797) of the Health and Safety Code, one of whom may be an Emergency Medical Technician Paramedic, as defined in Section 1797.84 of the Health and Safety Code. (b) Each racing association and racing fair shall adopt and maintain an emergency medical plan detailing the procedures that shall be used in the event of an on-track injury. The plan shall be posted in each jockey room in English and Spanish. (c) Prior to every race meeting, the racing association or racing fair shall contact area hospitals to coordinate procedures for the rapid admittance and treatment of emergency injuries. (d) Each racing association or racing fair shall designate a health and safety manager and assistant manager, who shall be responsible for compliance with the provisions of this section and one of whom shall be on duty at all times when live racing is conducted. The health and safety manager may, at the discretion of the racing association, be the person designated to perform risk management duties on behalf of the association.

## 15. CONCESSIONAIRES AND SERVICE CONTRACTORS

- A. Names and addresses of all persons to whom a concession or service contract has been given, **other than those already identified**, and the goods and/or services to be provided by each:
- B. Does the fair plan to provide its own concessions? Yes ☐ No ☐

**16. ON- TRACK ATTENDANCE/FAN DEVELOPMENT**

- A. Attach a copy of the promotional and marketing plans for the race meeting:
- B. Promotional/ Marketing budget for this race meeting:  
  
Promotional/Marketing budget for prior race meeting:
- C. Number of hosts and hostesses employed for meeting:
- D. Describe facilities set aside for new fans:
- E. Describe any improvements to the physical facility in advance of the meeting that directly benefits:
  - 1. Horsemen
  - 2. Fans
  - 3. Facilities in the restricted areas

**17. SCHEDULE OF CHARGES**

- A. Proposed charges, note any changes from previous year:  
Admission (general)  
Admission (clubhouse)  
Reserved seating (general)  
Reserved seating (clubhouse)  
Parking (general)  
Parking (preferred)  
Parking (valet)  
Programs (on-track)  
(off-track)
- B. Describe any "Season Boxes" or other special accommodation fees:
- C. Describe any "package" plans such as combined parking, admission and program:

**18. JOCKEYS' QUARTERS**

- A. Check the applicable amenities available in the jockeys' quarters:
 

<input type="checkbox"/> Corners (lockers and cubicles)	How many	<input type="checkbox"/>
<input type="checkbox"/> Showers	<input type="checkbox"/> Steam room, sauna or steam cabinets	<input type="checkbox"/> Lounge area
<input type="checkbox"/> Masseur	<input type="checkbox"/> Food/beverage service	<input type="checkbox"/> Certified platform scale
- B. Describe the quarters to be used for female jockeys:

**19. BACKSTRETCH EMPLOYEE HOUSING**

- A. Inspection of backstretch housing was completed by (name) \_\_\_\_\_ on (date)\_\_\_\_\_ .
- B. Number of rooms used for housing on the backstretch of the racetrack:
- C. Number of restrooms available on the backstretch of the racetrack:
- D. Estimated ratio of restrooms to the number of backstretch personnel:

## 20. TRACK SAFETY

- A. Total distance of the racecourse - measured from the finish line counterclockwise (3' from the inner railing) back to the finish line:  feet.
- B. Describe the type of track surface at the facility, including the specific track surface composition:
- C. The percent of cross slope in the straight-aways is:  
The percent of cross slope in the center of the turns is:
- D. Describe the type(s) of materials used for the inner and outer railings of the race course, the type of inner railing supports (i.e., metal gooseneck, wood 4" x 4" uprights, offset wood 4" x 4" supports, etc.), the coverings, if any, on the top of the inner railing, and the approximate height of the top of the inner railing from the level of the race course.
- E. Name of the person responsible for supervision of the maintenance of the racetrack safety standards pursuant to CHRB Rule 1474:
- F. Attach a Track Safety Maintenance Program pursuant to CHRB Rule 1474.
- G. If the fair is requesting approval to implement alternate methodologies to the provisions of Article 3.5, Track Safety Standards, pursuant to CHRB Rule 1471, attach a Certificate of Insurance for liability insurance which will be in force for the duration of the meeting specified in Section 2. The CHRB is to be named as a certificate holder and given not less than 10 days' notice of any cancellation or termination of liability insurance. Additionally, the CHRB must be listed as additionally insured on the liability policy at a minimum amount of \$3 million per incident. The liability insurance certificate must be on file in the CHRB headquarters office prior to the conduct of any racing.

## 21. DECLARATIONS

- A. All labor agreements, concession and service contracts, and other agreements necessary to conduct the entire meeting have been finalized except as follows (if no exceptions, so state):
- B. Attach each horsemen's agreement pursuant to CHRB Rule 2044.
- C. All service contractors and concessionaires have valid state, county or city licenses authorizing each to engage in the type of service to be provided and have valid labor agreements, when applicable, which remain in effect for the entire term of the meeting except as follows (if no exceptions, so state):
- D. Absent natural disasters or causes beyond the control of the fair, its service contractors,

concessionaires or horsemen participating at the meeting, no reasons are believed to exist that may result in a stoppage to racing at the meeting or the withholding of any vital service to the fair except as follows (if no exceptions, so state):

**NOTICE TO APPLICANT:** Pursuant to CHRB Rules 1870 and 1871, the CHRB shall be given 15 days' notice in writing of any intention to terminate a horse racing meeting or the engagements or services of any licensee, approved concessionaire, or approved service contractor.

## **22. CERTIFICATION BY APPLICANT**

I hereby certify under penalty of perjury that I have examined this application, that all of the foregoing statements in this application are true and correct, and that I am authorized by the fair to attest to this application on its behalf.

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Print Name

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Signature

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Print Title

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Date



# Calendar for year 2015 (United States)

January						
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# Calendar for year 2016 (United States)

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# Calendar for year 2017 (United States)

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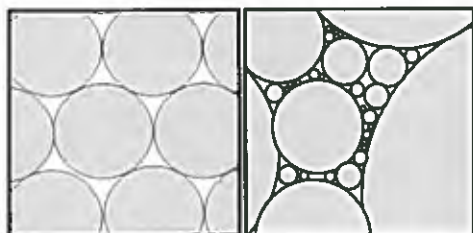
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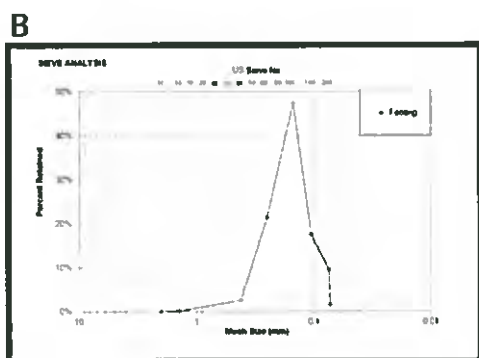
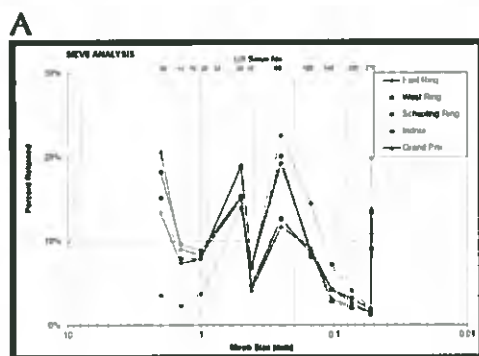
**Racing Surfaces  
Testing Laboratory**  
Orono, Maine USA



**FIGURE 1** Variations in sand shape, a schematic overview of main categories.



**FIGURE 2** Different sand size and distributions lead to variations in pore size.



**FIGURE 3** Sieve analysis examples.  
a) Sand arena surface with poor performance properties. b) Well-functioning sand and artificial fiber arena surface.

## Equestrian Surfaces Part I – Sand Specifications

Maren Stavermann, Ph.D and Elin Hernlund, D.V.M.

### Introduction

Sand is the key footing component of most horse-riding arenas. In this respect, fundamental knowledge of sand specifications is essential for a deeper understanding of the mechanical properties of equestrian surfaces. Sand is a complex material comprising variable fractions of sand grains with a distinct mineralogy and pore space filled with air and water. The relative fractions of these components greatly influence the mechanical properties of the arena surface and thus distinguish good from bad arena sands. In this context, sand shape, size, sorting and mineralogy plays an important role.

### Sand Shape

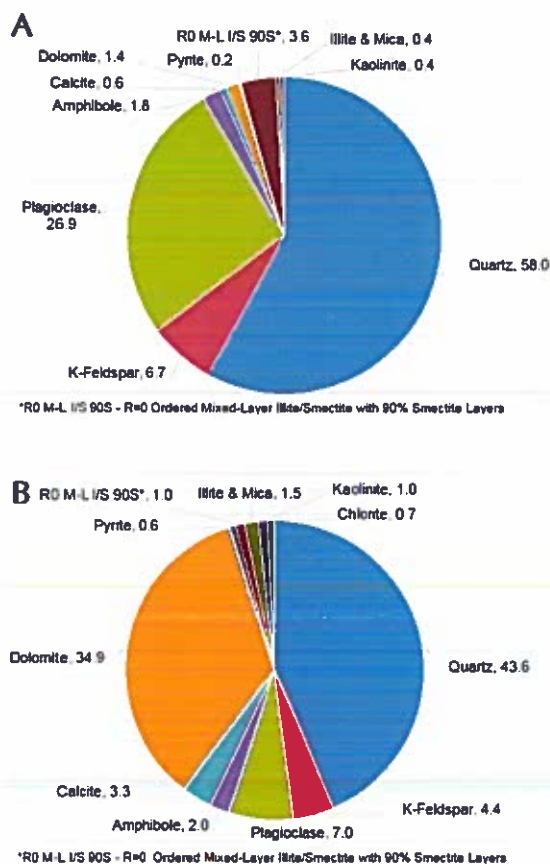
Microscope analysis is used to identify sand shape and divide it into four main categories as shown in Figure 1. In a natural environment, sand originates from eroded rocks. Prolonged time spent on transport and tumbling by water during deposition typically forms a sub-rounded to round shape of the grain. Manufactured sand is artificially produced by crushing rocks mechanically into smaller fractions forming more angular grains. The shape of sand grains influences the cushioning of the footing and the resistance of the surface to slip when loaded with the horse's weight (shear strength). Angular grains increase the friction between grains compared to more round ones. This results in increased shear strength but also in increased abrasion on hooves or hoof shoes due to their sharp surfaces. Furthermore, the more angular-shaped the grains are the higher is the tendency to break and introduce fine materials which will cause the surface to compact and create harder footing. Sub-angular particles offer a good solution to prevent rolling effects but promote elasticity.

### Sand Sizes

The sand size refers to the diameter of the particle denoted in mm or U.S. sieve size. Sand is larger than clay (diameter  $\leq 0.002$  mm) or silt (0.002-0.063 mm), also denoted as "fines", and smaller than gravel (2-63 mm). It is important to note that the crucial parameter of arena sand is the size of the pore space between sand grains, which directly depends on the sand grain size and size distribution (Figure 2). Smaller pores are a result of either having very small grains evenly distributed or of having particles ranging from large to very small grain sizes. The size of pores influences the ability of water to permeate the surface and will also influence the way in which water will hold the grains together. In general, sand with small pore spaces will compact more easily with negative impacts on drainage and elastic properties of the footing. Larger pores formed by large rounded sand grains of the same size lead to a very unstable surface with poor shear strength. Thus, finding a good compromise between too small or too large pore sizes is desirable. Hence, careful consideration not only of sand grain size but also of sand sorting is essential for achieving optimal mechanical properties of the arena footing.

### Sand Sorting

A standard method to determine the particle size distribution is the sieve



**FIGURE 4** X-ray diffraction analysis of sand mineralogy. a) High percentage of hard silica minerals such as quartz, feldspar (including plagioclase), amphibole, and phyllosilicates (clay) creates durable sand. b) Less durable sand is formed by grains with a high proportion of soft carbonate minerals such as calcite and dolomite.

*This technical bulletin is part of a series of papers directed toward a general audience with a common interest in developing consistent and reliable surfaces for equestrian sports. You can find more information on the subject in the Equine Surfaces White Paper and in Equine Surfaces –a guide. Both documents are published by the Fédération Equestre Internationale (FEI) available on the FEI Website <http://www.fei.org/fei/about-fei/publications/fei-books>*

*These documents are a collaboration between experts from the UK, the United States, Sweden, Canada and Germany representing six universities, three equine research and centers, and sport representatives. The latest data and published scientific papers on arena and turf surfaces, and the effects on horses in training and in competition are summarized for a general audience.*

separation test using a series of sieves as described in standard test methods (ASTM 2007). The mass of sand in each sieve is recorded at each step until the remaining particles in the lowermost catch pan ( $< 0.0037$  mm) are assumed to be fine silt and clay sized particles. These parts can be further analyzed using the wet sieve test, hydrometer test, or x-ray diffraction method discussed in technical bulletin #1 for track surface education. Results of the sieve separation test are commonly presented as a chart showing the percentage distribution of the material that has passed through the sieves as a function of the respective sieve size (Figure 3). Footings with sand particles that are all nearly the same size resist compaction but may have insufficient grip and the tendency to feel deep. In contrast, sandy materials with a broader grain size distribution which may include a larger proportion of very fine silt or clay will have high shear strength but will compact, leading to a hard surface with poor drainage properties.

Most sand arenas use sand size distributions with no more than 2 peaks in the range of sieve #10, 35, 60 and 100 (Figure 3a). To achieve both, low compaction and high shear strength, artificial fibers can be used. Fiber allows the arena to have higher shear strength by increasing the binding between sand particles while maintaining open pores. Arenas which use fine and coarse fibers (usually around 2.5 % mass percentage) and a very small amount of fine material (clay  $< 2$  %, silt  $< 6$  %) can both minimize compaction and minimize dust. A typical sieve analysis chart of such an arena shows only one peak of sand distribution in the range of 0.06-0.2 mm, sieve #70-230. Figure 3b shows an example of a very well-functioning dressage arena footing with a peak at 0.15 mm, sieve #100.

## Sand Mineralogy

Sand originally derives from rocks with certain mineralogy depending on the regional geology. The mineralogical composition of sand can be analyzed by x-ray diffraction (Figure 4). According to the hardness of the source mineral, wearing from maintenance and horse traffic can either break large grain particles into smaller angular particles or grind angular into rounded grains. These effects lead to an increased production of smaller sized particles that tend to compact and harden the surface. A high portion of quartz ( $\text{SiO}_2$ ) forming hard silica sand makes the surface more resistant to wear. Hence, many well respected arenas use a high amount of sub-rounded silica sand (up to 98 %) which is very consistent in size. This is then mixed with fiber to produce a surface with adequate shear strength and a low risk of compaction.

## Conclusion

Choosing the “right” sand for an optimal arena is not straight-forward. This is not only because the type of available sand is limited to what is regionally supplied. An additional important role is played by the arenas design and purpose as well as the types of additives used in the footing. Moreover, the maintenance of the footing is key. This intricate matter is the subject of an upcoming consecutive series of publications in these technical bulletins.

ASTM, 2007, Standard Test Method for Particle-Size Analysis of Soils, ASTM Standard D422 – 63, West Conshohocken, PA.

*Racing Surfaces Testing Laboratory encourages the distribution and use of these bulletins. For further information, contact:*

Michael “Mick” Peterson, Ph.D.

Racing Surfaces Testing Laboratory, 2 Summer Street #1, Orono, Maine 04473  
PH: 207-409-6872 [racingsurfaces.org](http://racingsurfaces.org) [mick@bioappeng.org](mailto:mick@bioappeng.org)