



September 2006

PROPWASH

Newsletter of the San Luis Obispo Pilots Association

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President's Post'its:



Airport Day 2005

Fellow Pilots,

Here we are following Oshkosh and looking to Copper State in October but what do we do now? Guess what, it is San Luis Obispo Airport Day this month. The 30th of September will be here in a couple of weeks and the work being done by the Airport Day committee is right on track. We are in need of members to man the SLOPA booth and please bring your plane, borrow a plane, and call a friend to bring her plane.

We are looking at a major turn out this year in both planes and public admittance. We have participation from a number of local flying organizations and non-flying interested groups. The Vet



Museum will have a booth and display one or two WWII jeeps, and the Jet Center is helping host a big BBQ after we close the gates at 4 pm.

My crystal ball indicated clear air, soft breezes, warm temperatures, and interested plane watchers. The military is probably bringing in several planes for all of us to enjoy. Please remember to come early for the special dedication of Airport Day in the name of Wanda Strassburg.

Thank you all for your work.

John Eichler – President SLOPA

Celebrating General Aviation

Is this the season for celebrating General Aviation, or what? Our 2006 San Luis Obispo County Airport Day, Sept. 30th, is going to be a terrific family event, with spectacular static displays, a kid's activity center, musical entertainment, ATC tours, food booths, and so much more. And don't miss the charity barbecue and wine tasting at the San Luis Jet Center immediately following Airport Day events. Great barbecue, fine wines and good company, you just can't beat that. And did I mention the barbecue raffle? Yup, there is over \$4,000.00 in prizes just waiting for some lucky ticket holders. How about a twenty minute jet ride, a round of golf at Cypress Ridge and dinner for two, a Hearst Castle tour, bottles of fine local wines, or other great prizes? That's what I'm talking about. For more event and ticket information, please visit our web site www.slopilots.org.

Airport Day Volunteers Needed

As John mentioned, we still need a few more volunteers for SLO Airport Day, at least twelve. So, if you are available, please contact SLOPA Vice-President, Tim Williams at vp@slopilots.org or 805-540-5195.



Airport Day - September 30, 2006

- San Luis Obispo County Airport- (KSBP)
- Time: 10am to 4pm, Charity fundraiser BBQ Dinner 4-7pm
- Airport Day 2006 in memory of Wanda Strassburg, SLOPA. past president
- Opening ceremonies to begin at 10:00am

**Airport Day - Public Invited FREE & FREE Parking!
Special Charitable Bar-B-Que Immediately Following Airport Day - Public Invited!**

- The BBQ will be located at the San Luis Jet Center Hanger from 4-7pm
- Raffles every ½ hour for big prizes
- Dinner: Beef and Chicken
- Kids Activities
- Wine tasting tickets

Airport Day BBQ Dinner and Wine Tasting combo tickets now available for purchase!

Act now as advance ticket sales are limited.

Proceeds from this event will benefit local charities:

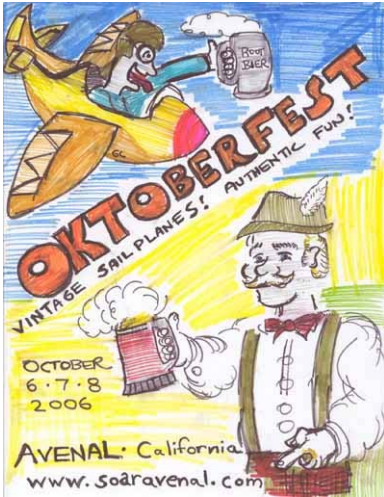
- The Fund for Vineyard & Farm Workers
- SLO Airport Terminal Artwork Fund – Building in 2010
- YMCA – Local Youth Programs

Kiwanis de Tolosa – Local Youth Programs

Other Exciting Events

Don't miss the Paso Robles Air Show this Saturday, Sept. 16 from 9am to 3pm. For information, visit www.pasoairshow.org.

Paso Robles Airport Day 2006 Aviation Expo



There are a number of exciting events happening in October, beginning with the Central Coast Soaring Club's first annual Oktoberfest Western Vintage Regatta, Oct. 6, 7, & 8 in Avenal, CA. www.soaravenal.com.



The California Pilots Association's Annual Meeting is being held at Santa Maria Airport (SMX) Friday and Saturday, Oct. 6 & 7.

There will be a reception Friday evening, and the business meeting will be on Saturday. This is going to be a great event with a terrific line-up of such guest speakers as film maker Brian Terwilliger, creator of "One Six Right," general aviation icon Clay Lacy, and Assemblyman Abel Maldonado. Visit www.calpilots.org for more information.

The Copperstate Fly-in at Casa Grande Municipal Airport (CGZ) should also be a terrific event this year. www.copperstate.org for details.

And don't forget AOPA Expo 2006, Nov. 9-11, in Palm Springs. www.aopa.org/expo/2006.



Temporary Flight Restrictions

Just a reminder. We are also coming up on election time, which means politicians are on the move. So, stay on top of those TFRs with frequent calls to Flight Service.



COPPERSTATE 2006

October 26-29, 2006 **Fly-In 2006**
Casa Grande Municipal Airport (CGZ)

| | |
|---|--|
| <p>All Aircraft types are welcome IF IT FLIES, BRING IT!</p> <ul style="list-style-type: none">• Antique• Custom Built• Classic• Homebuilt• Replicas• Rotorcraft• Ultralight | <ul style="list-style-type: none">• Construction Info• Demonstration Flights• Educational Forums• Fly-Bys• Fly-Mart• Food Court• Kid's Activities• Vendor Exhibits• Workshops• Young Eagles Flights |
|---|--|

Admission:

| | |
|--|--|
| <ul style="list-style-type: none">• \$10.00 per person• \$7.00 for EAA Members, AOPA and Active Duty Military• Kids 12 and under are FREE! | <ul style="list-style-type: none">• Tent Camping• Parking for motor homes and travel trailers• Shower facilities |
|--|--|

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|  <p>www.copperstate.org</p> |  <p>Casa Grande Municipal Airport www.ci.casa-grande.az.us/airport/</p> |
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Go to www.copperstate.org for more information

California Pilots Association

www.calpilots.org

You Can Help by Flying Friendly
By Syl Heumann

Do you know the diameter of your propeller? If you don't, read on, because it has a very important effect on noise outside your aircraft. We are continually faced with noise complaints at airports, and some of them are warranted too.



| Propeller RPM's | Noisy | | Loud | | | | | | |
|-----------------|-------|------|------|------|------|------|------|------|------|
| Length | 2400 | 2450 | 2500 | 2550 | 2600 | 2650 | 2700 | 2750 | 2800 |
| 74 | 528 | 539 | 550 | 561 | 572 | 583 | 594 | 605 | 616 |
| 75 | 535 | 547 | 558 | 569 | 580 | 591 | 602 | 614 | 625 |
| 76 | 543 | 554 | 565 | 577 | 588 | 599 | 610 | 622 | 633 |
| 77 | 550 | 561 | 573 | 584 | 596 | 607 | 619 | 630 | 641 |
| 78 | 557 | 569 | 580 | 592 | 603 | 615 | 627 | 638 | 650 |
| 79 | 664 | 576 | 588 | 599 | 611 | 623 | 635 | 646 | 658 |
| 80 | 571 | 583 | 595 | 607 | 619 | 631 | 643 | 654 | 666 |
| 81 | 578 | 590 | 602 | 614 | 627 | 639 | 651 | 663 | 675 |
| 82 | 585 | 598 | 610 | 622 | 634 | 646 | 659 | 671 | 683 |
| 83 | 593 | 605 | 617 | 630 | 642 | 654 | 667 | 678 | 691 |
| 84 | 600 | 612 | 625 | 637 | 650 | 662 | 675 | 687 | 700 |
| 85 | 607 | 620 | 632 | 645 | 657 | 670 | 683 | 696 | 708 |
| 86 | 614 | 627 | 640 | 652 | 665 | 678 | 691 | 704 | 710 |
| 87 | 621 | 634 | 647 | 660 | 673 | 686 | 699 | 712 | 726 |
| 88 | 628 | 641 | 654 | 668 | 681 | 694 | 707 | 720 | 733 |
| 89 | 635 | 649 | 662 | 675 | 688 | 702 | 715 | 728 | 741 |
| 90 | 643 | 656 | 669 | 683 | 696 | 710 | 729 | 736 | 750 |

As the tip speed of your propeller approaches the transonic range, the noise level outside the aircraft takes a tremendous jump. The transonic range begins about 625 MPH, or Mach .85, and continues until the speed of sound which is 736 MPH (Mach 1) at sea level. This increase in noise is not apparent inside the aircraft (as outside). Beginning at approximately 625 MPH, the tip of the propeller is going fast enough to cause compression of the air and is causing at least *two mini sonic booms* per revolution.

No doubt you have heard aircrafts take off and noticed the noise level increases greatly just as the aircraft is opposite of your position. The reason is that the tips are at transonic speeds, and the sound is radiated on a path perpendicular to the path of the aircraft. The sound appears to drop off as soon as the aircraft has passed, but that disk of noise is following the aircraft, and will continue until the prop tip speed is reduced. It is important to understand that once the threshold of transonic speed is approached, any increase in RPM causes a dramatic increase in noise outside the aircraft.

To determine if your aircraft has a potential for excessive noise look at the chart on this page. Generally speaking, aircraft with 250 horsepower and above with two bladed props are the biggest offenders. Look closely at the chart to understand how important a 100 RPM reduction can be. A reduction

of 100 RPM will usually reduce the excessive noise factor, and a reduction of 200 RPM is even better. Plan on reducing RPM as soon as you feel it is safe, or by 500' above ground level (AGL). The calculations do not include the forward speed of the aircraft because the effect is negligible.



The next time you your aircraft is in annual don't forget to have the tachometer calibrated. A glance at the chart will show how important 100 RPM will be in reducing noise. If all pilots consider these suggestions, we will have fewer noise complaints which will make airport neighbors and pilots much happier.

As seen in the California Pilots Association Newsletter
www.calpilots.org

Acknowledgments

A hardy thanks to all of this issue's contributors:

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Syl Heumann - Flying Friendly Article

David Chivens – Oshkosh Photos

Please send articles, story ideas and comments to Propwash Editor, Bruce Brown at Propwash@slopilots.com, or call Bruce at 474-1408.

San Luis Obispo Pilots Association

www.slopilots.org

Spirit of San Luis Restaurant



Located at the San Luis Obispo County Regional Airport, the Spirit is at the center of activity for area business, aviation, families and travelers who love its friendly atmosphere and great food. Sit on the patio and watch the world come and go by air or inside where a century of aviation history decorates the walls.

Breakfast, Lunch or Dinner, anytime is great to get "the Spirit".

925 Airport Drive, San Luis Obispo, CA. 805-549-9466.

Hours M-Sa 7am-8pm, Sunday 9am-8pm

KEEPING AIRCRAFT CLEAN



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Contact: John Ziegler 805-450-1455 P.O. Box 6828 Santa Barbara, CA. 93160

For information regarding ad space in the Propwash Newsletter, please contact SLOPA Treasurer, Keith Godfrey at Treasurer@slopilots.com.