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"Density Altitude & the Wyoming Pilot"

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Fuel Prices



A Quarterly Newsletter from the Sheridan Pilot's Association at KSHR

Summer 2021

On Final 33

current topics >>>

Upcoming Events:

JULY 10TH, 2021

- Pancake Breakfast – 0700-1000
- Hulett, Wyoming (W43)

JULY 17TH, 2021

- Pilot Contests, Food & Music
- 0900 - 1300
- Upton, Wyoming (82V)

JULY 26TH – AUGUST 1ST, 2021

- EAA AirVenture
- Oshkosh, Wisconsin (KOSH)

JULY 31ST, 2021

- Fly-In & Pancake Breakfast
- 0600-1300
- Dubois, Wyoming (KDUB)

SEPTEMBER 11TH - 12TH

- Fly-In & Pancake Breakfast
- Glendo, Wyoming (76V)

From the Editor

Fly-In Season!

Welcome to the Summer issue of *On Final 33*! As the previous issue's column celebrated annual simulator and flight school accomplishments, hard to believe July 1st is already upon us. Summer and Fall usually bring many Fly-In events with the biggest being Oshkosh! Are you and your aircraft ready? After most being cancelled last year from the pandemic, it will be fun to re-visit regional airports and connect with fellow aviators in person. Life long friendships are sure to form! If you have not flown recently, be sure to stay current. Ask a local CFI to accompany you on a local flight and get prepared for some exciting cross country flights! If you are grounded due to a maintenance issue or need some simple squawks fixed, call your IA and get it done to enjoy Fly-In season!

Anyone who has been around KSHR lately, may have noticed a significant uptick in airport activity. According to Flightaware.com,

2021 arrival and departure operations for all aircraft are 20-30% higher than 2019 and 2020 levels! Skywest now has three flights daily scheduled to Denver. Talking with airport manager John Stopka, the airport is on pace to set a record for emplanements on Skywest's CRJ200! More commercial, corporate and GA visitors to Sheridan is a positive influence for us!

Lastly, in early-June, the airport hosted two different groups of 6th-8th graders from Tongue River Middle School. Kids were treated to a tour of Sheridan County Airport's snow removal equipment and main fire truck. Also local pilots gave tours of hangars and described different types of aircraft. (See photos throughout issue). Thank you to all involved! The kids had a blast and hopefully we have some future aviators to mentor. Congrats to our new pilots Randon & Behley! Get those wheels up!

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- On Final 33 Editor, J.T.

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WAYS TO CONNECT

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@SheridanPilots307

KSHR Airport News >>>



Skywest Current Schedule

With commercial travel demand coming back, Skywest now has three daily flights to Denver, Colorado (KDEN). Below are the most common flights looking online at www.United.com,

- KSHR>KDEN
 - 5:37am > 7:00am
 - 10:12am > 11:35am
 - 3:27pm > 4:50pm
- KDEN>KSHR
 - 8:05am > 9:19am
 - 1:36pm > 2:52pm
 - 9:05pm > 10:22pm

Experimental Aircraft Association (EAA) >>>

For more information or to join the EAA, please visit www.EAA.org or contact Casper Chapter 420 liaison Tom Jones: 307-253-9462 EAACHapter420@gmail.com



"Density Altitude & the Wyoming Pilot"

By 777 Captain Jeff Baum

Unlike those trained at or near Sea Level, learning to fly at higher elevations makes Density Altitude a fact of life, not just an exercise for the written exam.

An easy way to think of Density Altitude is this is altitude which the airplane "thinks" it is flying. Using a Cessna 182T with 235HP and max takeoff weight, a SL takeoff on a ISA (International Standard Atmosphere) of 15°C and 29.92 the "book" calls for a takeoff roll of 770 feet, and a Rate of Climb of 935 fpm. Takeoff out of Laramie at 30°C and the airport elevation of 7,283 feet results in a DA of 10,778 feet. That takeoff roll is going to be rather long! ISA for KLAR is a balmy +1°C, so we're starting with a +29°ISA (now you know where 'That' number comes from). Extrapolating the performance numbers comes up with a takeoff roll of 1,880 feet. To clear 50 feet, using Short Field technique you'll be a bit under 4,000 feet with a blistering Rate of Climb of 462 fpm. Crossing the Bighorns pretty much requires a minimum altitude of 10,500 (yes, there are places lower, but go with me). With an OAT of 68°F (25°C) we're facing a DA of 13,564 feet. A Cessna 172 with the O-320 150 hp engine, on an ISA day (SL and -6°C) the 172 book calls for a ROC of 234 fpm. With the OAT at +20°C you're looking at a ROC of basically... zero, zip, nada. Not happenin' today!

While we live with DA every day, sometimes it's a good idea to run the actual numbers and remind ourselves how high DA can get around here. We get used to a certain performance when it's cooler and we're flying solo. Change the parameters and the equation changes. Add some weight with passengers, and you'll have a longer takeoff roll and slower climb. Might affect CHTs and Oil Temperatures, too. Take visitors up for a tour of the High Country, and you'll have lower ROC and easier to get into possible difficulties with terrain.

To quote SFPD Inspector Harry Callahan, "A man's gotta know his limitations." Flying around Wyoming in the summer "A pilot's gotta know their airplane's limitations!"

Recreational Aviation Foundation (RAF) >>>

For more informatioe, please visit www.THERAF.org or contact Wyoming state liasions:

Lori Olson: 307-746-8411

lolson@theraf.org

Chris McAtee: 307-277-1597

cmcatee@theraf.org



1st Wyoming RAF Strip: Miracle Mile

Seeking license, endorsement or rating?

Private Pilot, CFII, Tail-Wheel

Sheridan, WY (KSHR)

Sheridan Pilots 307 - 307-365-2626

Bighorn Airways - 307-672-3421

Instrument, Multi-Engine, Mountain, Complex, BFR, IPC, CFI, CFII, MEI -
Cody, WY (KCOD)

Choice Aviation - 307-587-9262

Tailwheel – Gillette, WY (KGCC)

FlightLine - 307-686-7000

Seaplane – Kalispell, MT (KGPI)

Backcounty Flying Experience

406-890-3419

Rotorcraft – Bozeman, MT (KBZN)

Rocky Mountain Rotors

406-579-9312

115 NM RADIUS FUEL PRICES

JET A

100LL

KSHR (Sheridan, WY)	\$5.01 full-service	M-F \$5.85 full-service, Sat/Sun \$5.35 full-service, \$4.89 self-serve
KBYG (Buffalo, WY) 26 nm SE	\$4.95 full-service	\$4.65 self-serve
KGEY (Greybull, WY) 49 nm W	\$4.79 full-service	\$4.99 self-serve
U68 (Cowley, WY) 63 nm W		\$4.99 self-serve
KWRL (Worland, WY) 64 nm SW	\$4.95 full-service	\$5.90 full-service
00U (Hardin, MT) 65 nm NW		\$4.46 self-serve
KGCC (Gillette, WY) 67 nm SE	\$4.85 full-service	\$5.49 full-service, \$4.99 self-serve
KPOY (Powell, WY) 77 nm NW	\$4.73 self-service	\$4.20 self-serve
00F (Broadus, MT) 78 nm E	\$4.86 self-service	\$3.00 self-serve
KHSG (Thermopolis, WY) 88 nm SE	\$3.77 full-service	\$4.88 full-service
KCOD (Cody, WY) 89 nm W	\$4.99 full-service	\$5.49 full-service, \$4.99 self-serve
KBIL (Billings, MT) 91 nm N	\$4.90 full-service	\$5.50 full-service, \$4.65 self-serve
6S8 (Laurel, MT) 94 nm NE	\$3.75 self-service	\$4.75 self-serve
W43 (Hulett, MT) 105 nm E	\$4.45 full-service	\$4.99 self-serve
KMLS (Miles City, MT) 110 nm NE	\$4.60 full-service	\$5.20 full-service, \$4.90 self-serve
KCPR (Casper, WY) 115 nm S	\$5.95 full-service	\$6.05 full-service, \$5.05 self-serve

NEW PILOT! – May 14th, 2021– **Randon Kruse** – CFI Bryan Belus & DPE Jeff Baum



TONGUE RIVER MIDDLE SCHOOL STUDENTS – June 12-13th, 2021 – Teacher Robert Griffin



TRMS Students & teacher Robert Griffin stand with KSHR's snowblower!



Don Parrott describes Bruce Garber's Stearman!



Roy & Robin Bissey show their immaculate 1975 Cessna 172 with Bill Patton!



Gregg Simmons discusses the twin Duke & Baron with students!



Tom Civin talks about the Piper Arrow!



Mark Sonderby mentors a young pilot on the Redbird!



Ty Fauber, Mark Sonderby & Bill Patton instruct in the sim room!



TRMS students in the classroom!



TRMS students in front of a Sikorsky Sky Crane!

NEW PILOT! – July 4th, 2021– **Behley Malkuch** – CFI Bryan Belus & DPE Jeff Baum



RIBS ON THE RAMP BBQ! – July 7th, 2021

