

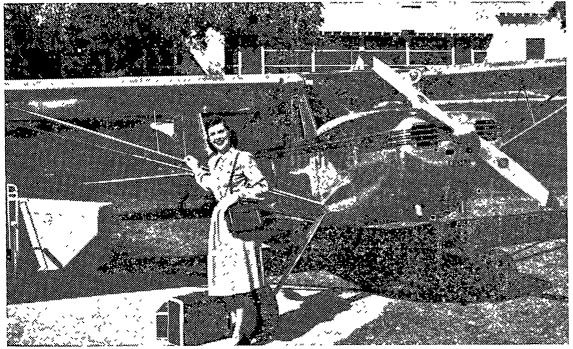


Cessna 170

FIRST INTERNATIONAL AIR SHOW
August 11, 1948
Estevan, Sask., Canada

Voice of Dakota Aviation

CESSNA SETS THE PACE AGAIN IN 1948 WITH More for your Money



Get off to a flying start on business or pleasure trips . . . in winter or summer . In a CESSNA It's a year-round, cross-country performer with a cruising speed of over 105 m p h ---a range of more than 450 miles---a service ceiling of 15,500 feet and an 80-pound luggage capacity. Directional ventilation system makes possible heating the cabin for comfortable cross-country winter flying What's more, with the Cessna patented, safety landing gear, you can take off and land safely in winds that ground most light planes

The Cessna 140 is a fast, clean, 2-place craft, that delivers for only \$3,345 (f o.b. Wichita) The 120 is basically identical---minus starter, generator, battery, flaps and with less luxurious interior trim---and delivers for \$2,845 (f o b Wichita).

CESSNA 170

The low-cost, 4-place "Family Car of the Air" Easy to fly—economical to operate—plenty of room for the whole family (4 adults) plus luggage Never before has such room, speed, comfort and utility been offered at anywhere near the same price All-metal structure 145 H P Continental Engine—over 120 mp h crusing speed—500-mile range See it

CESSNA 190-195

Practical 4-5 place personal or company airliners All metal—airline-type engines—Hamilton Standard Constant Speed Propellers—every safety and comfort feature Yet surprisingly economical to own and operate You get about 12 miles per gallon of gas! The 190 has a 240 H P Continental Engine and cruises at well over 160 mph. The 195 has a 300 H. P Jacobs Engine and cruises at over 165 m.ph Both have ranges of over 700 miles



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"THE VOICE OF DAKOTA AVIATION"

DAKOTA FLYER

No. 10 Vol 11 August, 1948 ..Carl Thompson Editorial Manager Marie Gress Associate Editor One Year Subscription-\$200 Advertising Rates Furnished Upon Request

Published Monthly at the Office of the Conrad Publishing Company, Bismarck, North Dakota

The Cessna 170 is Cessna's newest contribution to aviations 4-place airplane. It is of all metal structure—with high wing design. The 170 is powered with a 145 Continental Engine. A feature story on this aircraft will be found on page 8 of this issue CESSNA DISTRIBUTORS FOR THE DAKOTA AREA ARE:

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NAVION - - LUSCOMBE - - AERONCA

FOR AUGUST, 1948

Tailwind Tattler

IN COLORADO the new Travelgram has been instituted by Western Union through the efforts of the State Division of Aeronautics The special rate was set up for handling telegrams which notify your friends of a safe arrival following crosscountry flights.

PARTNERS IN CLOVER, Frances Langford and Jon Hall have taken on another partner, Robert Young. They operate Santa Monica's Clover Field and have just announced that they will become world distributors for a new type of hangar, The Cloverleaf Quad Hangar.

TWO SOUTH DAKOTA men, Gail Coe and Elmer Bekken, are coyote. hunters with or without a gun. Spotting a coyote from their light plane, the chase was on The coyote tired quickly so they landed, lassoed the animal and killed it with a fence post.

3,500 ACRES OF WHEAT were saved, totaling some \$3,000,000.00 asthe temperature dropped to 28 degrees with the harvest only six weeks away. Six airplanes from Fairfield, Idaho, flying at low level, raised the temperature about 3 degrees and created a wind that was just as important in preventing

YOUR INTEREST IN THE "DAKOTA FLYER" WILL BUILD UP INTEREST IN DAKOTA AVIATION!

FRIED CHICKEN

and FRENCH FRIES

Bart's Drive Inn

Municipal Airport

WILLISTON, N. DAK.

PAGE THREE

Official Publication

STATE AERONAUTICAL NEWS

North Dakota

NAA Airport Safety Campaign

During July the North Dakota Aeronautics Commission mailed the National Aeronautic Association Dakota airports The Safety Advisory Council of the NAA has revised the requirements for awarding the "Certificate of Good Airport Operating Practice" In order to qualify for the award this year, the airport must meet all of the Report basic NAA requirements along with a minimum of 20 of the additional Desirable items.

In last year's safety campaign, 493 airports throughout the United States, of which ten were in North Dakota, met the requirements for the Certificate of Good Airport Operating Practice

The 1948 NAA award is a very fine appearing Certificate which every deserving North Dakota airport should have on display All airport managers are naturally interested in safe operating practices Here is an opportunity to check recognition of your work All completed reports should be mailed to the North Dakota Aeronautics Commission, Bismarck, N D

N. D. Gas Tax Amendment

deadline for the filing of the "Inikota Constitution there were 9,600 "Reckless Operation of Aircraft" Aeronautics Board signatures returned on some 353 provision of the North Dakota State ure on the ballot it was decided to in the air or on the ground or in period of two years forego the November 2nd, 1948, bal- the water while under the influ- John A Cannon, Regional Attorgeneral election following the Nov. endanger life or property."

2nd election At the moment we Licenses have the job just about half finished 3,000 petitions have been Suspended printed and circulated We need about 400 additional petitions returned in order to complete the tics Board at the hearing room in Airport Rating Lists to all North job Your help in the past has been the United States Post Office Buildfinish the 10b

Accident

kota, according to an accident relonging to Dr C A Bush of Beach ground near Baldwin and engaged in reckless low flying William Uehlman was a passenger in the aircraft

immediately Smith managed to turns

save Uehlman who could not swim

July 16, 1948, Phillip Victor Mayer was tried before the Civil Aeronaunost sincerely appreciated Let's ing, Bismarck, North Dakota, on the charge of violation of the Civil Aeronautics Board minimum safe altitudes for flight of an aircraft over other persons, vehicles or struc-

Phillip Mayer was the pilot of an aircraft involved in an accident last Beach, N D -- On June 26, 1948, July 9, 1947, three miles east and Homer Smith of Beach, North Da- four miles north of Baldwin, North Dakota His passenger John Savenport submitted by State Patrolman ko of Bismarck was fatally injured Hollis Dietz, took a Piper Cub be- when the aircraft crashed to the

The evidence presented at the over several fishermen on Odland trial revealed that Phillip Mayer Lake, 7½ miles north of Beach piloted the aircraft at an altitude as low as 150 to 200 feet in the immediate vicinity of the Joe Sorch farm Smith buzzed the fishing boats near Baldwin The Civil Aeronauuntil a very low dive the pro- tics Board examiner ruled that peller of the aircraft struck the wa- such action on the part of the pilot ter, the impact of which broke off was in violation of the minimum your facility and receive personal both ends of the blade with a re- safe altitude regulations of the sulting crash of the aircraft into CAB and that if the aircraft was the lake The crash occurred about maneuvered at such a low altitude 200 feet-from shore in 10 feet of there was insufficient height to water The airplane sank almost permit maneuvers especially in

Testimony indicated that the air-According to the violation report craft was in airworthy condition the pilot, Smith, was flying Dr prior to the flight The CAB exam-Bush's plane which he had taken iner ruled that on the basis of the As of midnight July 3, 1948, the without permission. He also was evidence introduced at the trial that carrying a passenger on a student Phillip Mayer was guilty of violatiative Petitions" which propose to permit which constitutes another tion of Part 60 107 of the federal amend Article 56 of the North Da, violation Smith also violated the rules and regulations of the Civil

Mayer was fined by the CAB expetitions Inasmuch as 20,000 signa- Aeronautics Act which provides- aminer by having his private pilots tures are needed to place this meas- "No person shall operate an aircraft federal certificate revoked for a

lot in favor of the next general elec- ence of intoxicating liquor, narco- ney, Civil Aeronautics Administration The gathering of signatures ties or habit-forming drugs nor tion, Chicago handled the prosecuwill be continued until the 20,000 operate an aircraft in the air or on tion for the CAA Witnesses were are secured so that the measure may the ground or in the water in a Mr and Mrs Joe Sorch, Baldwin, be placed on the ballot at the next careless or reckless manner so as to Ray Waltos, Orrin Auch and Joe Lippsmeyer

PAGE FOUR

S.D.A.T.A. Meet at Spearfish

Doctor Kenneth Bayne was guest was also flying at low altitudes speaker for the South Dakota Aviation Trades Association meeting held at Winner, South Dakota, on July 12

Mr Bayne talked at some length with regard to the various chemicals used in crop spraying, including 2-4D, DDT, Taxophene, and Chlorophene He briefly discussed the amount of spray mixture to be used on various crops and under various conditions, the effect of the same, etc He advised that the people in the crop spraying industry. particularly aerial crop spraying must educate the farmers on the beneficial results of the same He stated that, according to actual experience, the best results have been obtained by making a forty-foot swath from a distance of approximately ten feet above the ground, thus practically eliminating the possib lity of danger from drift He also advised that it had been proven that an airplane could spray a town for a cost of approximately \$100 per family Mr Bayne spent some time regarding the spraying of cattle and other animals, chemicals used, results obtained, etc In conclusion, he stated that the two main rules to follow in aerial crop spraying, in his opin on, would be (1) do a good responsible job of applying the spray mixture, and (2) do a good safe jeb of flying

At the invitation of Don McFall it was decided that the next meeting would be held at Spearfish, S Dak, on Monday, September 13

Licenses Suspended

The Civil Aeronautics Board reported in a recent news release that port the private certificate of Egbert Wayte of Williston, N Dak, was vicinity of Williston, below the minimum altitude prescribed

At a public hearing held at Fargo, onautics Board suspended the Stu- flying Wright has done dent Pilot certificate held by Paldays Eidem, of Hillsboro, N Dak, sells aircraft

Minet Holds Pilots Barbeaue

Sunday, July 11-Human interest, thrills and color at the pilots' barbecue kept more than 2,000 spectators entertained at the Minot air-

Sixty-two pilots — six from Canada - flew their craft of all types and descriptions to the airport for the event which opened with a barbecue starting at 10 a m and continued with a program and contests in the afternoon

Prizes were awarded as follows To Alvin Officer, Ryder, for the first pilot to arrive and for first place in the balloon busting and streamer cutting contest, to Bruce Wright, Williston, 62, oldest pilot, to Ken Nicolson, Estevan, for the quickest take-off, 168 feet, to Marvin Larson, Plaza, for the private Harold G. Vavra, Acting Director plane spot landing contest, to Joe Engels, Minot, for the quickest takeoff with a plane loaded with four passengers, to Virgil Nordstrom Minot, for the spot landing contest, commercial planes, to Leonard ber, 1941, when he was engaged by Daily, Larsland, Mont, pilot of the plane coming the greatest distance

Gypsy Moth, copped the prize for the oldest plane to arrive and a number of other prizes were given to visiting pilots

Man can do more things in the eason he should be careless

That sums up the viewpoint on lying by Bruce Wright, Williston, who at 62 got an award in Minot automatic pilots to be installed on Sunday for being the oldest pilot the Boeing B-17 Flying Fortress present at the program at the air-

Wright has been flying since 1925 He started with an old Jenny of tant role in all precision bombing suspended for a six-month period World War I vintage He has never undertaken during World War II This action was taken because the had an accident And as an instruc- The C-1 autopilot was installed in pilot violated the Civil Air Regula- tor he is rated as "tough" but he all B-17's, B-24's and B-29's flown tions by engaging in flying, in the denies any intention of being such by the Army Air Forces -he just wants his students not to July 1, 1947, Vayra became associbe careless

N Dak, on June 30, the Civil Aer- 12,000 is the number of hours of gineer After the resignation of Er-

Wright has his own field at Wilmer Eidem for a period of ninety liston, conducts a flying school and We'd Like You... To Meet



North Dakota Aeronautics Commission, Bismarck, N. D.

Harold has been associated with the aviation industry since Novemthe Aeronautics Division of the Minneapol's Honeywell Regulator An Estevan pilot, flying a 1928 Co, Minneapolis, Minn, as a production engineer assigned to the task of developing mass production methods for the manufacturing of aviation electrical instruments

In March, 1942, he was assigned by air than birds can-but that's no Honeywell to the Boeing Aircraft Company, Seattle, Washington, to supervise the installation and flight testing of one of the first electric This equipment was known as the type C-1 electronic autopilot which was destined to play a very impor-

ated with the North Dakota Aero-Somewhere between 11,000 and nautics Commission as airport enling A Nasset, Director of Aeronautics, he also assumed the duties of Acting Director of the North Dakota Aeronautics Commission

FOR AUGUST, 1948

PAGE FIVE

N.D.A.O. Meeting at Dickinson





William Piper

Piper, Airplane Builder, Says Girls Can Influence Flying

Friday, July 9, the North Dakota | there too, so all we have to do is Aviat.on Operators Association held talk the girls into it" a meeting at Dickinson, North Dakota Heading the list of speakers were William Piper, manufacturer of the Piper Cub airplane, Donn Flower, sales manager of Cessna are better equipped for aviation be-Aircraft Corp, Donald Thompson, cause they have the available time from the Federal Government. senior inspector of the Civil Aeeronautics administration, and Harold Vavra, act ng director of the Aeronautics commission, Bismarck

Donn Flower addressed the group of 30, stressing the need for those "sell flying, as well as airplanes" Mr Flower advocated more instruction in cross-country flying for private pilots, and said that it was the operators duty to "build up a desire to go places by plane" He said 'We must get the airplane in use, get people to talking about it and set a good example"

Girls definitely influence and help the development and progress of private flying" William Piper pointed out that for women, hats and flying are similar If one wowill want one He said, "If one girl and Virtue is in doing it starts flying others will want to start too Soon all the girls will be out there the boys will want to be knows when to pull it back

He also stressed that private flying isn't exclusively a young man's share of the funds will be available field, explaining that older people and funds for flying

Fiper considered used cars for the rublic to use to go to town, very also stated that low priced, used airin aviation business operations to planes were needed to plant the seed of desire, then the pilot would Aviation Law buy a more expensive plane as time

> J C Lippsmeyer, president of the NDAO, conducted the meeting, and Dan Wakefield, Secretary-Treasurer of the group gave his report Carl Thompson, Editor, DA-KOTA FLYER, acted as master of ceremonies at the dinner served at the Villard Hotel

man has a new hat, all the women next, Skill is knowing how to do it, enforcement field. The law enforce-

A turtle never gets anywhere unout at the airport If the girls are less he sticks his neck out He also filing of complaints in accordance

Federal Aid **Airports**

Twenty-seven North Dakota communities have been allocated federal-aid funds to construct, improve or enlarge their public airports The total amount of federal-aid airport unds allocated to the twenty-seven communities is \$466,040 on the basis of 25% of the allowable land acquisition costs and 50% of other allowable construction costs

The largest airport improvement project is Hector Airport, Fargo with \$62,500 of federal-aid airport funds earmarked for expansion of their airport The smallest scheduled project is Ellendale Municipal All, ort with \$1,200 of federal airport funds allocated

All twenty-seven North Dakota communities have the airport sites selected while 44% of the twentyseven North Dakota Communities have completed the engineering _ield survey Ten communities have completed the land acquisition of then airport Eighteen of the communities have indicated that their

The first federal-aid airport in North Dakota to finish all plans and actually receive a grant agreement which really is the green light for the start of construction, was Westhope, North Dakota Westhope Municipal Airport with a federal grant important to airport operators He of \$9,625 should be under construc-

Enforcement

A two-day law enforcement school was held July 24-25 at the State Capitol at Bismarck, North Dakota Approximately 35 members of the State Patrol along with several county sheriffs, attended the school Flight demonstrations were held at the Bismarck Municipal Airport of the various violations of flying reg-Wisdom is knowing what to do ulations most common in the law ment officials were instructed on the proper procedure in the investigation of aircraft accidents and with the 1947 Session Laws

PAGE SIX

FLYING HIGH

with

MARIE

"Hello Ladies" — From now on every month I would like to have a column here just for us (The men get too much attention anyway, but of course we won't mind if they take time to read our column too Maybe they'll learn that women are more capable than they have always thought) Each month I'll try to have some news of what women have done in the past, and are doing now, for aviation

At Beach, N Dak, the other day, I met a woman who described perfectly what many wives must be thinking. She said that if she goes with her husband to an air show or breakfast flight, she not only feels out of place because she is the only woman present, but everyone thinks that her husband is henpecked because she "Trails along" Yet, she doesn't want to miss out on all the fun—and why should she? A woman has a right, and a duty, to go to the air shows with her husband. What about it? Let's make it our business to attend the air shows with the men and show them that it'll be a lot of fun for them to have us with them.

Maybe we could even form some kind of club for women pilots and the wives of pilots, so that while the men have their meetings and conventions, we could be in the next room having a meeting of our own It would be a nice way to get acquainted with each other, don't you think so? Also it would provide a golden opportunity for us to form a sort of study club. You know the men seldom bother to discuss airplanes and their aviation problems with us because they think we don't know enough about it to carry on an intelligent conversation. Could they be right? Well then, let's get together and learn a little more about stalls, spins, and the business we all love—aviation.

If you like the idea of forming a club for women — why don't you write and tell me? (The men can write and tell me what they think of the idea, too, since they're the ones who'll gain by it in the end.) If enough of you seem to like the idea, we'll see what we can do to get the group organized

By the way ladies—this is to be your column. It is dedicated to you, the wives of pilots—and especially to you—the women pilots of North and South Dakota

Please send in your news and views We'll publish them, and don't forget—I'll be waiting for those cards and letters

"Goodbye now Be with you again in September"

"WE MUST ALL PUSH TOWARD ONE COMMON GOAL A FUTURE IN AVIATION FOR WOMEN"—Wm Piper

SUGGESTIONS WE'D LIKE YOURS

The Dakota Flyer is published for YOU, the businessman in aviation. It is published to serve your needs - - - In getting non-airminded persons interested in knowing what you at home are doing.

Any suggestions which you may have at any time will be welcome, any criticisms will be appreciated. The editors try to select for publication articles which they think you'll find valuable. If there is some subject we have missed, please drop us a line and let us know. Or tell us when we visit your airport.

The DAKOTA FLYER

Dickinson, N. D. - - Box 624

Gentlemen's Corner



Miss Darlene Levorson, age 19, started flying in Mott, North Dakota, in August 1946, while she was still in high school. She received her Private Pilots license in September, 1947. To date Darlene has 66 00 accident-free hours to her credit.

Darlene, a sophomore at the University of North Dakota, is very interested in music — especially the piano

Elected "Miss DAKOTA FLYER" in 1947, Darlene is now vacationing at her home in Elgin. North Dakota EDITOR'S NOTE. This Column, similar to "We'd Like You to Meet" is to appear monthly It is written especially for the gentlemen who may find it interesting to know that women ARE capable as pilots

CROSS COUNTRY PILOTS

Stop at

Airport Lunch

Zack Mosley has dedicated his comic strip, Smiling Jack, to the advancement of private aviation. His 18,000,000 readers are currently getting tips on air marking Lack of air marking is a pet peeve of Zack's at present

FOR AUGUST, 1948

PAGE SEVEN

THE CESSNA 170

pleasant airplanes to fly and ride in push or pull on the wheel rather tends to nose up slightly for a secthat you can imagine It represents firmly to get or hold the speed you ond and then goes back to its trim one of the best combinations yet, want unless you re-trim in the speed. At any rate, flaps down and of the three basic ingredients which climb Actually, that's what you around 65, the descent isn't exactly private owners want good flight are probably going to do anyhow, flat but on the other hand it isn't characteristics, comfort, and per- so it is good right off to start think- quite what you usually expect out formance

among a group of 140's you may not use that tab a lot in flying it spot it at first But finally you see it Nose a little longer, and sharplonger But as you get closer it begins to grow, until up close it im- the amplane's wanting to nose back presses you as a rather large air- up to the climb speed for which it ting on just the slightest back presplane

That impression is heightened when you open the wide door, for the cabin is a roomy one, and trim- down, you find the airspeed sitting land slightly tail first med with the same neatness as the 140 There are doors on both sides, and 125, even though you're then a track It is easy to get into, and standard temperature Cessna's after you do and pull your seat forappropriate notch for your leg to indicate 120, but you can bet this tically straight up length, there's plenty of room for airplane does it, and that's the speed the passenger to pass between the at which cross country flying starts this way, and watch the airspeed back of your seat and the rear of making about 50% more sense the wide door The rear seat is several inches wider than a 140 and notice is the low noise level and its removable back has the same how free of vibration the ship is loaded than light. There have been adjustment for angle that the 140 You aren't long concluding that a few It is caused by the fact that has The baggage compartment is here's an airplane in which you the fuselage is best into the relalarger than the 140's and is behind could ride all day without getting tive wind when the wing is at the the rear seat with shelf above It bushed. Now what pleasure is an angle of attack that goes with a will hold 3 large suitcases, the shelf airplane if it isn't like that? two Seated in the front or rear.

in finding that you have more gas the flight was in rough air, you inclined to indicate 120 instead of with about a thirty minute margin, gitudinal and directional stability cruising at 2400 rpm

turns around 2200 on the ground

mention in preparation for take-off steady flight is to set the trim tab indicator cor-

ing of the airplane as a trim-tab of full flaps If you go out to fly one parked airplane, and that you're going to

was trimmed

Levelled off, trimmed and turning 2400, with the nose riding well \mid that out of the landing you tend to right in the middle between 120 "over" figure on this airplane is 120

The next thing you're likely to

From this point you're ready to vou will find more than adequate consider flight characteristics, but down compared to the full attitude head room and leg room as well already you've been unable to avoid As far as the 170 is concerned this The only noteworthy difference getting some sort of impression of could be only whimsy, but at any between the 140 and 170 cockpit is them. For instance, even though rate at 2400 it seemed much more in the right wing than in the left | couldn't help but be aware of the the 1221/2 it showed with full load You have, for cruising and landing fact that the ship had mighty little purposes 37½ gallons or four hours | 1011 to 1t, and had pronounced long- | your already favorable | impression It is characteristically one of those The engine, a Continental 6 is airplanes that if you put it in some ing trim, the main indication is the rated 145 hp at 2750 rp.m., and attitude it tends to stay there All considerable pull it takes on the normal cruise is 2350 to 2400 r.p m this comes from the fact the ship wheel to achieve a stall, the exwith a redlined maximum cruise of has an extra long tail and in addi-2500 With the McCauley prop it ion quite generous tail surfaces innal slight buffetting just at the The only thing worth particular feathers on an arrow do—a swift, ship remains stable laterally and

rectly for the load you have This gliding radius, and holds its speed little faster, enough to really get it is because the stick forces are fair- closely. Your tendency on the first good, and stalled, the nose goes ly high and if you trim for a speed landing will probably be to put the down faster, of course, and farther much below or much above what flaps down a little late When they

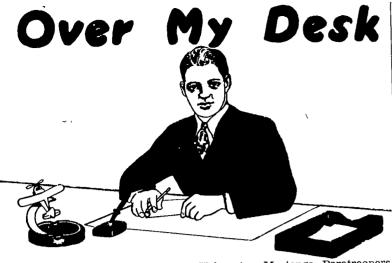
The Cessna 170 is one of the most you want to climb at you'll have to are first put down the airplane

But to make the landing—you can get out a lot of "A's" to put in your As you level off, you might as log book. It's just one of those airwell start trimming nose down, planes that you flare, then get the er, just a little taller, just a little otherwise the back pressure on the tail down some without any gain in stick will build up rapidly due to altitude, and after that it almost lands itself You find yourself putsure just before it touches If you try to make any more work than

Flying the airplane solo, is, of course, giving it a 510 lb break and and both front seats slide back on 2500 feet above sea level at close to it practically takes to the air from a standing start At 70 the rate of climb is from 1,000 to 1,200 fpm ward until it is latched in the most It's easy enough to get an airspeed and seems as if you're going prac-

When you trim to cruise, light you begin to wonder if this is one of those airplanes which flies maybe just a few miles an hour faster full load Lightly loaded the fuselage is moving along slightly nose Climbing on up for some stalls of this amplane is going way on up too In the power stall, with cruistremely high nose position, and a together they do for it just what the stall The break is rather slow, the there's full aileron control as the At 70 the airplane has quite a nose sinks down. If you pull up a (Continued on Page 14)

PAGE EIGHT



Your magazine is really getting around I advertised for a flight instructor, and got one from New York through your paper Sincerely,

LYLE BENZ

Northwood, N D

Dear Editor

Just a few lines to let you know how much my wife and I enjoyed the convention at Fessenden It's the first Flying Farmers convention I have ever been able to attend although I have been a meming forward for next year's conven-

a good bunch of people.

I'm sending you a picture of myself and my family in front of our Taylorcraft

Yours truly,

Chester Offerdahl Editor's note Thank you very much for the picture We certainly would like to print it, but it is too small.

Estevan, Sask

Dear Mr Thompson

We wish to advise that plans are finally underway to hold an Air Show here in Estevan, on Wednesday, August 11th We would appreciate any publicity extended in your Dakota Flyer

To yourselves and to all our American Flying Friends we extend a hearty invitation, to attend this International event So far our plans call for the attendance of a

Hazen, N Dak | Helicopter, Mustangs, Paratroopers, etc. As for the regulations in crossing the border, we are arranging to have Customs and Immigration Officials stationed right at the Esteavoiding any out-of-the-way report-

> We are also planning to hold varas spot landings, shortest take-off, plane to stay out of the whole area.

Club, and all efforts are being made ber for some time I'm already look- Air activity fo rall our American and Canadian Fliers

We therefore trust that our Show The people of Fessenden and may be honored with a good turn members of the flying farmers are from across the border, and we assure you that your visit will be a pleasant one

> Thanking you for your very kind personal interest, and looking forward to seeing you here in Estevan on the 11th of August, we are,

Yours truly, The Estevan Flying Club, H Mandel, Sec'y.

Stop at **Border Aviation**

MUNICIPAL AIRPORT Langdon, North Dakota LUSCOMBE - PIPER **AIRPLANES**

Bob Wells, Operator

Anticipating Weather

Meteorologists at weather stations are always glad to go over the latest reports and to advise pilots regarding the chances of flight along a projected route At a smaller field, where there is no weather station, there is always a telephone, and a call to the nearest station will get the desired information

In the United States the general movement is from west to east, and a flight in that direction usually is moving with the weather An east to west flight will find more rapid hanges, and conditions will become better or worse depending on what is reported in the line of flight

Certain types of weather can give the small plane pilot a nasty time A low pressure area is treacherous van Airport, availing all visitors of and the pilot should note from the satisfactory clearance, and thereby sequence reports how rapidly the pressure is lowering A fast pressure drop indicates that a severe storm center is in the making, and it would ious contests for our visitors, such be wise for the pilot of a small

The wind velocity should be ex-This is our first Air Show being amined along the route and espesponsored by The Estevan Flying cially near the destination Head winds mean that extra refueling to provide an interesting day of stops must be planned Landing will be difficult in high winds and dangerous if the winds are gusty

> During the summer months thunderstorms are a possibility anywhere in the United States, and the small plane pilot should avoid them like the plague Exact prediction of thunderstorms is difficult, but meteorologists can tell when conditions are right for their formation They are frequent along weather fronts, and summer afternoon thunderstorms may occur when there is a deep layer of humid air. The building up of high cumulous clouds requently will foretell the developnent of the severely turbulent cumulo-nimbus

Another factor to be watched on the weather sequences is the proximity of the temperature to the dew point When they are tending to meet, precipitation can be expected in the form of fog or rain In the late afternoon the cooler air may speed up this tendency and it would be wise to stop short of an area where ceilings may be closing in -W H Rodda

PAGE NINE

FOR AUGUST, 1948

Cruising Around **Our Airports**

Yankton, S D-Our year around restaurant continues to be a welcome sign to many transient pilots and local hangar flyers, who are hp Champion, equipped with a also the life of any party and na- Sevdy-Sorensen sprayer They have turally all showed up with blue rib- been very busy and are providing bons for our RAMP DANCE on June 26

There were about 200 present when one of our local boys ordered a rain so we moved the piano inside Oh well HANGAR DANCES ed parties (the horses were not are just as much fun.

to get ahead In the case of Leo from Milwaukee, Wis, to attend the Larson and Floyd Hessler, a com- polo game played on Sunday, June mercial ticket is on the blue hori- 27 The party included a Navion, zon, and they'll get it by using their flown by Dr Heise, and a Cub newly purchased Luscombe

Every so often the airport is plessed with some beautiful feminine face This time it's Nancy Gurney, taking instructions in their 1948 Station Wagon Speaking of 1948 Stinson Station Wagons, Char- h p Aeronca Champion First place ley Tycz of Tyndell, S Dak, has a in the four-place short take-off connice new blue one We will see him at the next Flying Farmers convention.

Everything is nice and quiet down here now The shop is in its new location in the east Hangar, and the wind sock that blew down in a recent windstorm has been replaced with a sky hook anchor

Jamestown, N Dak -Walking into the office of the Smith Flying Service you will find a slight change in the scenery - and we're not talking about the new paint job on the walls No, siree - she's a redhead, just out of school, who is replacing Blanche Pedersen Blanche has decided to give her whole-hearted efforts to homemaking instead of dividing her time between the Airport and home Patricia Jacobs is the new secretary's name and we know you'll find doing business with her a pleasure

A familiar face again to be seen in the shop is Jim Parkhouse and we are glad to have him back Jim replaces Walter Peters, whom most of you knew. Walt has gone back to the farm in Isle, Minnesota Another back-to-the-farm boys

been replaced by Floyd Broadland NASAO Meets at Lloyd Toftner The old faces have from Breckenridge, Minnesota, and Richard Naumann of Temvik, N. D

> Huron, S Dak Three local GI's started a crop spraying venture here this summer with an Aeronca 85 very satisfactory service to farmers in this community

On Saturday, June 26, three polo players and several other interestamong the interested parties who Some people are just determined arrived by air) arrived in Huron Cruiser, piloted by Mrs Heise

> Presho, South Dakota - At the well-attended air show here on June 29, Dakota Aviation Company won first place in the two-place short take-off contest with their new 95 test also went to Dakota Aviation Co with the new Aeronca Sedan

> Superior Airways, Inc, won the bomb dropping contest in a new 90 hp Luscombe

Buster Hendrickson entertained the spectators with a Stearman acrobatic act, and Joe Foss of Sioux Falls, S D, "Cut a few capers," in his new Navion.

September

Colorado Springs

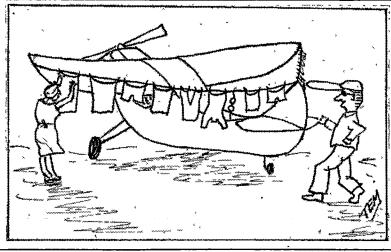
The National Association of State Aviation Officials from 21 states met at Colorado Springs, Colorado, July 6 7 and 8th to discuss the activities of the organization during the past year

Following discussion of the GI flight training program and Public Law, 80th Congress, by which funds were appropriated for the activities of the Veterans Administration for the fiscal year 1949, the NASAO went on record by concurring on the following resolution

"The National Association of State Aviation Officials reaffirms its previous policy and the activities of its officers in support of the Veterans' Flight Training program It further offers its cooperation to, and urges its members to actively cooperate with, the public, the veterans, the Veterans' Administration and the flight school operators to the end that the intent and purpose of the Congress in providing a sound flight training program for all veterans who are entitled to such training be fully accomplished'

The group heard reports by President Cornish and A B Mc-Mullen. Executive Secretary on aviation legislation passed by the 80th

Several pilots crack up each nonth while "Buzzing" their homes Well, it's back to the home 'port The family gets a great show, but for now, but we'll be "Cruising they probably don't enjoy pulling Around Our Airports" again until the pilot's body from the wreckage



DAKOTA FLYER

PAGE TEN

To Patent **Model Invention**

Elmer G Wood, Freshman at the School of Mines, Rapid City, S D, and inventor of Y-control for toy and model airplanes, has recently had his patent accepted for approv-

Wods, who conceived the idea two years ago, said that the main object of the device is to provide a special Y-control device for manually controlling the take-off and $\mid_{\mbox{\sc buy}}$ the Cub Cruiser plane landing of a captive plane and to sumlate the flight of a full-sized airplane



Elmer G Wood

The plane is controlled by a lever on the ground, with a line attached from the lever to a center post From the center post two lines extend to the toy aircraft, controlling it Pushing the lever forward will cause the plane to dive, pulling it backward, the plane will climb

"The invention is for use on gaspowered model airplanes The planes can fly over an area extending from a radius of just a few feet to 150 feet," Wood said He expects this invention to be used for education purposes by the prolonged use and study of the model aircraft in flight

Wood, nineteen years old, is originally from Taylor Ridge, Illinois

5-Church Sky

Lutheran Churches in western South landing strip Dakota want to seek guidance, they plane motor dies, the service begins

It was almost a year ago that the young minister began what must be the most unusual parish in our Upper Midwest The high school youth of South Dakota raised the \$3,500 to

The pastor's wife and children are air veterans In fact, the baby not yet one year old has more flying hours than most adults in the world

"I conducted five Easter services Minneapolis Morning Tribune in five churches," said the enthusiastic young paison "Firesteel, Isabel, Morristown, Shadehill, Revaall in the one day At Christmas, we took two days for the five, but the weather wasn't so good"

Only once in almost a year has a $\big|_{\mbox{Dirty}}$ surfaces deteriorate rapidly service been canceled because the ily ng pastor's plane didn't appear A blizzard stopped that one Each

Pilot Moves Fast

When the folks in half a dozen constructed its own red-flagged

Part of Rev Hegland's time look towards heaven And, right on schedule reads like this "Isabel 9 schedule, the Rev Norval Hegland a m, Firesteel 11 a m.; Morriswill be heading for the church's town 2 p m, Newell 7 30 p m, first own air strip When the roar of the and third Sundays" On the second and fourth-Newell, Rosebud, and Slim Buttes hear the roar of the engine as the flying pastor ap-

> Pastor Hegland took flight instruction in Miles City and Plentywood, Montana, and received his Private Pilot license on Aug 22, 1946 - Condensed from George Grim's "I Like It Here" column, The

DO UNTO OTHERS AS THOUGH YOU WERE OTHERS

See that your plane is cleaned after operating in mud or slush

Ignoring right-of-way rules has caused many accidents Do you of the five churches—and a sixth at know what the rule requires of you Newell is soon to be added — has when approaching other aircraft?

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New Four-Place Family Cruiser with Radio

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FOR AUGUST, 1948

PAGE ELEVEN

"Aviation Information"

Prepared for you by F Trumbauer Assistant to Regional Administrator For Personal Flying Development

AFTER AN ACCIDENT

Responsibility.

dio, to the CAA oi the CAB when there is serious injury or death, or when there is reason to from structural failure A written report must be made to the CAB in all such cases, and also on any accident which results in damage rendering an aircraft unairworthy If the pilot is incapacitated, the opcrator must furnish the report

It is also the duty of the pilot or the operator to see that the wreckage is not disturbed until it can be examined by a representative of the CAA or the CAB, in all cases where there is serious injury or death, or structural failure of the aircraft The wreckage may be disturbed only when it is necessary to cure for the smart-aleck pilot but line and service facilities along

If it is necessary to move the damaged plane, it should be done with the minimum possible disturbance to the aircraft and its parts Prior to such movement a record of the original position and condition of the wreckage (as complete and accurate as possible under the circumstances) shall be made unless as to permit no delay whatever

Protection of the wreckage may be a difficult task, and the assistance of Police authorities should be use on second offense secured as quickly as possible People have an insatiable desire for port which gets tough and sets up ship will be rented to a pilot It is was found carrying away a wheelbarrow full of parts There have mand safe flying is soon regarded bally when the pilot is eager to be been cases where spectators have as a sloppy manager set fire to damaged aircraft by care-

the names and addresses of all per- at the field or in the meinity.

the insureres of the aircraft want Preservation of Wreckage, and all the details of the accident, and Making Official Reports Are Pilot's the location of the wreckage The names and addresses of witnesses The Civil An Regulations require handling of any claims which might viously held by Marjorie Anderson, an immediate report in person, or result. It is the owner's responsibility to protect the wreckage from further damage Insurance comran es are not liable for any addibelieve that the accident resulted the owner's neglect to protect the wie kage

FIELD PULES

port not far from Chicago have never been known to "buzz" the neighbothood Those pilots are not soints and they might be tempted to show who tuns that an field It is generally believed that he would Standard Service Station in Huron thoroughly beat up any prior who vas guilty of low flying in one of h s rlanes

the airport operator can top reck- Highway 16, as well as some expanless flying

Every airport should have a Field Rules They can specify the make it clear that the air in that vicinity is not to be considered a race the danger to public safety is such for unnecessary low flying could be buildings has been entered into with suspension of flight praviliges for Ed Anderson, owner of the airport, thirty days on the first effense, and and that the lease contains an oppermanent cancellation of airport tion for purchase

Did you ever notice that the air- down the conditions under which a souvenirs Following an airline a ridged set of rules is the most a lot easier to show a printed set of crash in Maryland last year, a man popular in the neighborhood? A jules and point them out one by sissy operator who is afraid to de- one, than it is to repeat them ver-

Don't miss the advertising value

Airport Purchased

Mitchell Aviation, Inc., has just been purchased by Walter F Ball, Abner G Ingalls, and Edw G Youngs, all of Huron, South Dakota This transaction involved transfer Wm Kienast, and Irwin L Bock-

The new officers of the corporation are Youngs, president, Ball, vice-president, and Ingalls, secretary-treasurer The management of the corporation has not yet been Pilots who fly out of a certain air-determined, as at present Youngs is president and manager of Dakota Aviat on Company of Huron, and Ball is vice-president and sales manoff, too, if it were not for the man ager of the same company Ingalls is manager and owner of Abby's

Mitchell Aviation will continue as an aircraft sales and service agency and pilot training school, including I crhaps we cannot eccommend the training of veterans It is plansion of the restaurant facilities and operation The company has also printed or mimeographed set of been granted a dealership for Crosley automobiles and will handle

Mitchell Aviation has been operourse or stunt area Penalties ating on the privately-owned airshould be set out for violation of port west of Mitchell since January the Field Rules as well as for break- 1 1948 The new owners advise that

ofi.

less disposal of lighted matches and in an attractively printed set of reveal that the prospective renter Field Rules They can specify the is not qualified to fly the ship he Immediate and accurate reports charges for rental of aircraft, and wants. Then the operator has an to the insurance companies are im- for instruction, as well as point out opportunity to sell some instruction portant. Liability companies need other facilities which are available Poor pilots are poor business, and sons who are injured or kelled, and The printed rules should also lay operator who insists on safe flying profits have a way of following the



3rd Annual Flying Farmers Meet

loft Jamboree, the Flying Farmers outlined the NFFA Insurance proand Ranchers Association held their Third Annual Convention at Fessenden, N Dak, June 24 and 25

About 75 planes arrived in the early part of the day and a free flyers and their guests An educational program on tillage, haymaking, and weed control demonstra-County Soil Concervation District

The evening was devoted to an air show and aircraft parade with several new types of aircraft being demonstrated. The WDAY Hayloft Jamboree, broadcasted over WDAY, had approximately 1,000 spectators present.

Completing the entertainment for the first day was a dance at Festival Hall

The Second day of the convention began with the election of officers, and was followed by speakers including H G Vavara, acting Director, State Aeronautics Commission; Bert A Hanson, Secretary-Treasurer of the National Flying week." Farmers Association, Carl Thompson, Editor, DAKOTA FLYER. FARMER; Everett Welch, Tom Letnes, and Otto Klindworth

H G Vavra, who spoke on the subject of State-wide Elevator Air Marking, informed the group that ed that replies to the letters were rectors for the following year" very gratifying, and that the project marked per year

Bert A Hanson, Vernon Center, Secretary-Treasurer of the National group enjoyed themselves at a ban-

Highlighted by the WDAY Hay-|Flying Farmers Ass'n reported and gram, which is now in force

The Secretary reported that a total of 90 were registered at the con- BOARD OF DIRECTORS vention He also reported that the present membership in the associalunch was served to all the visiting tion stood at 133 with 33 members being delinquent for a period of time from six months to one day He also reported that if the 133 tions were conducted by the Wells members, 11 had paid only the National dues and 16 members paid their State dues only

Resolutions adopted by the 1948 convention included: "to extend the nty of Fessenden and Wells County Extension agent a vote of sincere Piper Guest at thanks for the excellent program, the fine arrangements and the many courtesies and hospitality" "To support the North Dakota Civil Aeronautics Commission for their

"Support an initiated measure to allow gas money for the use and de-Ralph Hanson, Editor, DAKOTA velopment of North Dakota Aviation" "That consideration be given by the National Flying Farmers Board of Directors to include as honorary members of the National Association the Governors, Comthe Aeronautics Commission sent missioners of Agriculture and Secletters to 50 Line Elevator com- letaries of State Aeronautics Companies representing about 600 Ele- mission" "That the outgoing presivators in North Dakota He report- dent be made a member of the di-

Leland Brand extended an inviwas now being seriously considered tation to Carl Thompson, Dickinson, He also said that when the project new publisher and owner of the once got underway, from 10 to 15 DAKOTA FLYER magazine, to atper cent of the elevators would be tend the Board of Directors meetings of the NDFFRA

Following the adjournment, the

quet at which Richard Day, the new president was introduced and pre-

1948-49 NORTH DAKOTA AND RANCHERS ASSOCIATION

'		-	
:	Richard Day, Pres	Moffit	_
٠	Floyd Plath, Vice-Pres	. Kındred	в
	M C Altenburg, Sec'y	. Bismarck	
	Lorin Duemeland, Treas	Bismarck	
	Leland Brand	Taylor	
,	Thorval Staven	Hatton	
	Howard Henry	Westhope	
Ĺ	Wallace Stockman	Williston	
	Ira Aafedt	Fordville	
,	Duane Larson	Fort Clark	

Beach Barbeque

William Piper, manufacturer of the Piper Cub Airplane, was at consideration and action in the Ele- Beach Sunday, July 11 for a Beef vator Air Marking program" "Com- Barbeque at the airport After the mend the North Dakota Radio Sta- Barbeque the local and visiting pitions for their Flying Forecasts and lots visited a ranch to witness some that consideration be given to make wild-west branding Mr Piper, with these forecasts on every day in the a slightly small cowboy hat on, tried his hand at applying the hot Y-3 irons of the Pat Murphy herd

> Mr Piper expressed his appreciation for the hospitality shown on his second trip to North Dakota The first trip was only two weeks rrevious to this one

Herb's Cafe

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PAGE THIRTEEN

FOR AUGUST, 1948

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FOR SALE-PT-19 Rawdon hatch, Fabric wings Excellent condition \$1,000 00 Cliff Beeks, Washburn, N Dak.

FOR SALE-Two 1946 Aeronca Champions, licensed, May 1948. 225 hours and 250 hours respective-Fabric and Engines, A-1 condition, always hangared Priced to sell 523 First Ave N, Jamestown, N D

FOR SALE — 1946 Taylorcraft for sale Excellent condition, privately owned and always hangared Skus and radio Write for details Howard Terning, Route 2, Cokato, Minnesota.

-THE CESSNA 170-

(Continued from Page 8) down, but there's still no reversal of ailerons The main thing to remember in connection with stalls that you reach from a moderate zoom towards the last is that strong tendency of the airplane to seek its trim speed Entering these with cruising trim you get down to 50 or slightly below as the nose goes

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to start the recovery

be raised is the fuel capacity Cessna's answer to that is "Do you want range in hours or miles?"

With a 500-mile still-air range they figure that is all about 90% of the purchasers want and that an extra tank would bring on two undown, so when you ease off for a desirable factors First, even offerrecovery you are in effect giving ing extra tankage as extra equipthe airplane its rein when it's going ment would tend to raise the cost of majority. The 170 is certainly going 45 or 50 mph and is trimmed for standard models and thereby penal-120 trum speed, so if you don't watch | 12e 90% of the buyers Secondly, | 1s a smotth, steady, good performand hold the necessary back pres- they are very much opposed to ing airplane that fits right into any sure on the wheel you'll get into an building an airplane which is easily pilot's hand—(By Leighton Collins, unnecessarily prolonged recovery overloaded Any extra gas would condensed from AIR FACTS) dive which will obviously over- have to mean that pilots would limshoot the 120 considerably So keep it either baggabe or passenger after it once you've eased off a little weight and they figure that just what they hear—the worst half

enough people would overload the Probably the only feature of the airplane on hot days and on small 170 about which some question will fields to injure the reputation of their product

> At any rate the 170 has 500 miles range, and doubtless Cessna is right in concluding that the large majority of purchasers will find that quite enough You can't satisfy everybody in any business, and the main thing is to be sure you satisfy a to have no trouble doing that for it

Most people believe only half of

PAGE FOURTEEN

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