



# CRS 101 SSW FOR PILOTS RDS



Michael Shurtz





*101 Crosswords for Pilots* by Michael Shurtz

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**ASA-AV-XWORDS**

# FOREWORD

## by Greg Brown

### The Ultimate Pilot Gift

Piloting is by nature a game of trivia — half the fun is mastering the nuances of many unrelated topics and integrating them for decision-making. Weather, aircraft systems, navigation, regulations, communications, and the physics of flight — each has its own comprehensive lexicon to be learned and understood.

Whether absorbing this painstakingly acquired vocabulary through hard knocks or dull textbooks, pilots at every level from fledgling to airline captain soon learn pleasure in joyfully challenging others with the details. It's a special game between aviators that few outsiders are privileged to understand.

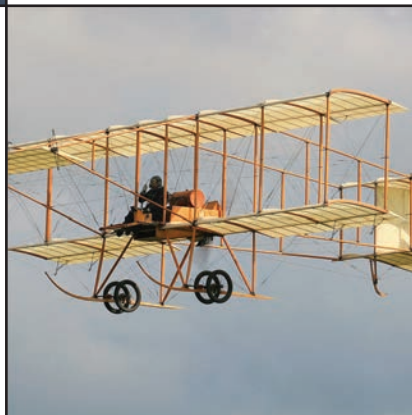
In *101 Crosswords for Pilots*, author Michael Shurtz has raised our pilot compulsion with trivia to the next level, by organizing it into a compelling collection of crossword puzzles that will challenge and entertain aviation enthusiasts of all descriptions.

Not only will readers have great fun conquering these challenging puzzles, but there can hardly be a more creative and enjoyable way to master aviation lingo in the process. Michael has done his audience an immense service by providing references for his crossword questions so interested readers can look up unknown terms in context and learn what they mean and where they originated.



Whether received as a gift or carried as a salve for long days waiting at the airport for tardy passengers and passing thunderstorms, *101 Crosswords for Pilots* will deliver you many hours of entertainment and pleasure. Not only will you enjoy yourself, but along the way you'll undoubtedly learn some useful facts — both for the cockpit and for one-upping your fellow practitioners of flight next time you go hangar flying. So sharpen your pencil, top off your coffee, and dig in!

Greg Brown is an aviation author ("*Flying Carpet: the Soul of an Airplane*", "*The Savvy Flight Instructor*" and more), AOPA Flight Training columnist, and 2000 National Flight Instructor of the Year.





# CROSSWORD 1



## ACROSS

1. "Are you ready to fall back to the lost art of \_\_\_ and clock if your electronic aids fail?"  
-FAA-P-8740-22

8. Ammeter units

12. The sleek 177



Terry Shepherd

13. Kind of road (*Sectional chart legend*)

14. Sikorsky's post-USSR locale

15. "Operating frequency range of a \_\_\_ is from 960 MHz to 1215 MHz."  
-AIM 1-1-7

16. 1,000 near India

17. If they're a-frayed, don't fly!

20. Prepare brakes for run-up

22. The \_\_\_ Piper Aircraft, Inc. (1995)

23. "Because of a smaller scale, —s do not show as much detail as sectional or TACs." -AIM 9-1-4

25. Cool down after a dogfight?

27. Aeronautical Corporation of America (*Founded in 1928*)

31. First airplane certified after World War II (*27 ACROSS model*)

34. Colleen Humrickhouse's swear words to Bob Hoover, 1947

35. LOC with GS

37. Clear, for one type

38. "When in \_\_\_, go around."  
-FAA-P-8740-49

41. Like layered air flow

44. "Some VASIs consist of three bars: \_\_\_, middle, and far." -AIM 2-1-2

46. Swing one's tail

47. "It may take several days to \_\_\_ the body of carbon monoxide."  
-FAA-P-8740-41

49. "If it's too \_\_\_ to go IFR, we'll go VFR!"  
-Unknown

51. "Negative contact"

55. "He was the \_\_\_ of two countries."  
-Eddie Rickenbacker, regards French ace Raoul Lufbery

57. "A pilot can achieve a

moderate degree of dark adaptation within 20 minutes under \_\_\_ red cockpit lighting."  
-AIM 8-1-6

59. "You can learn ten things by learning \_\_\_."  
-Japanese proverb

60. Like towered airport symbols

61. Radios, etc.

64. "Some jet transports have two \_\_\_ of ailerons."  
-FAA-H-8083-25

65. Never exceed radial

## DOWN

1. 1 ACROSS container

2. Medication method

3. Home of Andrews AFB



Adam Wright

4. 3.141...

5. "...cleared for stop \_\_\_ go"

6. Fighter pilot fears, besides AAA

7. "The greatest hazard on my New York to Paris flight turned out to be my

lack of \_\_\_." -Charles Lindbergh

8. HMS \_\_\_ Royal (*Britain's first aircraft carrier, 1914*)

9. Controller's altitude request

10. "I...raced to the far end of the runway...to be of assistance if Lindbergh should \_\_\_ up." -Anthony Fokker

11. Way to go, with jet in tow

12. Popular plane designed by Gilbert Taylor, 1930

18. Sixty degrees to starboard

19. Sigtronics Corporation, \_\_\_ Dimas, California

21. "While similar to sectional charts, —s have more detail because the scale is larger."  
-AIM 9-1-4

24. Mooney model named for it's top speed (*Rom.*)

26. St. on both New York and Montreal sectionals

27. Helpful LDA part

28. Famous float factory

29. Flare

30. "Each pilot in command shall, before beginning a flight, become familiar with \_\_\_ available information concerning that flight." -FAR 91.103

32. "Lowest altitude at certain fixes at which an aircraft must cross when proceeding in the direction of a higher MEA."  
-Pilot/Controller Glossary

33. Feet-minute link

36. Spotted

39. "\_\_\_ advised..."

40. Rudder part

42. "Rocket \_\_\_, by Elton John

43. "Off \_\_\_, into the wild..." (*Solo*)

45. "Using \_\_\_ for weather avoidance requires operational experience and expertise."  
-FAA-P-8740-12

47. Cambered structures

48. Power over the fence

50. Go zero Gs

52. Enter a formation

53. "I was a passenger on the journey...I did not handle the controls \_\_\_."  
-Amelia Earhart, first transatlantic flight, 1928

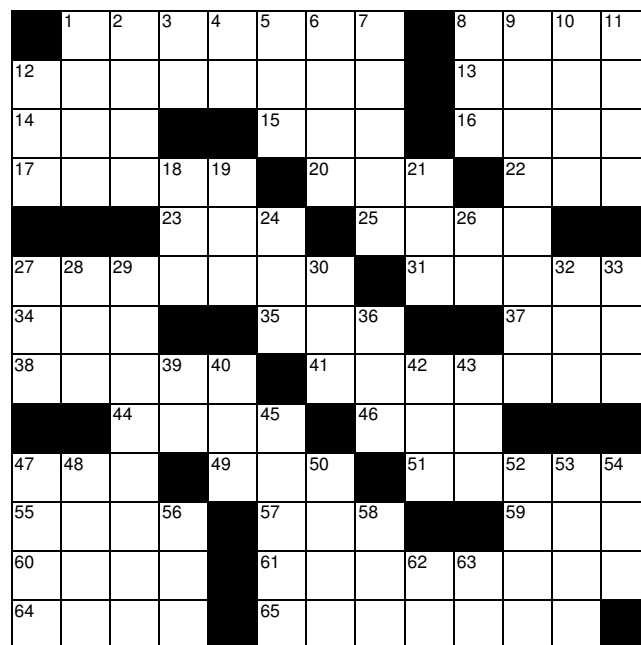
54. Best thing to hear after "Belt fastened, dear?"

56. Colonel MacDill (*MacDill AFB, Florida*)

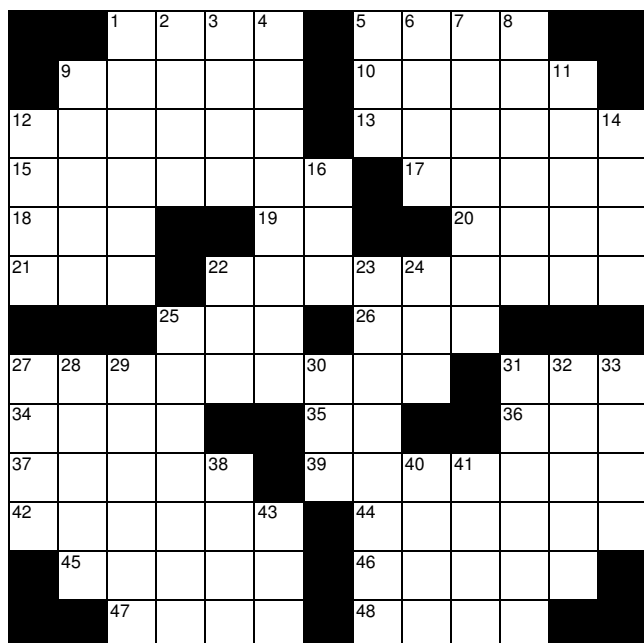
58. —way or —west

62. "—d gaskets should never be reused." -AC 65-12A

63. Nickel, periodic-ally



# CROSSWORD 2



## ACROSS

1. "Lift and drag forces acting on a wing are roughly proportional to the wing \_\_." -AC 65-15A
5. Training cost reducers
9. "LORAN – A radio navigation system utilizing master and \_\_ stations transmitting timed pulses." -AC 43.13-1B
10. British thermal and others
12. Relative mixture, with carburetor heat – COLD
13. Site of first Schneider Race (French Riviera, 1913)
15. Helicopter manufactured in Menominee, Michigan



Chicago Aviation Photography

17. "A \_\_ gives a pilot valuable information on weather conditions actually being experienced inflight by other

pilots."

-FAA-P-8740-30B

18. "Don't make the controller have to \_\_ for a read back!" -AIM 4-3-11
19. Iron symbol
20. Depart or state suffix
21. Hail size comparison
22. Density, pressure, and others
25. Maximum structural cruising spd.
26. First Army flight in Texas, Fort \_\_ Houston, 1910
27. "Angle between true north and magnetic north" -FAA-H-8083-25
31. Liable for installments
34. Civil twilight times

35. "101..." author's initials

36. Preflight wiper

37. Like Zeppelin's uncompromising airships

39. Turning towards needles,

willy-nilly

42. "\_\_ Black Sheep"

44. They're on radar and follow Delta

45. "The gyro assembly \_\_ in the opposite direction from which the aircraft is turning." -AC 65-15A
46. "The NWS uses [pilot reports]...to verify or \_\_...aviation forecasts and advisories." -AIM 7-1-20
47. "Be especially vigilant for other traffic while operating \_\_ VFR waypoints." -AIM 1-1-19
48. Low frequency hues

## DOWN

1. Patty Wagstaff's state, as a student pilot
2. Vent while hangar flying?
3. "No flying machine will \_\_ fly from New York to Paris." -Orville Wright, circa 1908
4. Soviet air carrier, or of late, Russian
5. Total
6. Broken, briefly
7. Part of MCA
8. Fixated
9. "A \_\_ of the unknown has always lured mankind." -William Shatner
11. Panorama
12. Deplane like Frogs



14. Decides

16. "A student pilot may not operate an aircraft in solo flight unless that student has \_\_ the requirements of this section." -FAR 61.87
22. "Santa \_\_ – A hot, dry, foehn wind...west of the Sierra." -AC 00-6A
23. Line of equal wind shift
24. Beige
25. "The \_\_ thunderstorm cloud is only a portion of a turbulent system." -AIM 7-1-28
27. Term of action
28. Pitts producer
29. Recover lost altitude
30. Not VMC
31. Lockheed P-3s



Erik Sleutelberg

32. Opposite of waxed
33. They're scrambled on bills
38. "Manufacturers of modern airplanes furnish weight and balance \_\_ with each airplane produced." -FAA-H-8083-25
40. Wile E.'s kitplane company
41. "Sharpest tool" locale
43. "There are two types of radar approaches: Precision (PAR) and Surveillance (\_\_)." -AIM 5-4-10



# C R 101 S S W FOR PILOTS R D S

MICHAEL SHURTZ

Pilots are inherently drawn to puzzles; problem-solving, and playing the “what-if” game as they fly along, are in their nature. They share a fascination for anything and everything about airplanes and flying. The over 6,000 clues and many fascinating photographs in *101 Crosswords for Pilots* will provide hours of enjoyment for pilots and aviation history enthusiasts alike, in stimulating recall of stored knowledge as well as satisfying the innate yearning to learn more.

Crossword-puzzle creator Michael Shurtz became a private pilot in 1980 by bagging groceries to pay for flying lessons; later he earned commercial and flight instructor certificates with a multi-engine rating and has taught mountain flying techniques in the Rockies, towed gliders, flown volcano tours, and powered parachutes in the Pacific Northwest. As a flight instructor, Michael looks for fun and interesting ways to engage his students; he says sending students home with an aviation scanner works wonders for radio technique, and bringing pizza to the classroom works wonders for comprehension! Michael has a Bachelor of Science degree in geographic information systems and cartography, and resides in Vancouver, Washington.

“The Ultimate Pilot Gift! ...Not only will readers have great fun conquering these challenging puzzles, but there can hardly be a more creative and enjoyable way to master aviation lingo in the process.”

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