



# Air Tractor

## Aerial Fire-Fighting Solutions

### Fire Agency Briefing

Valley Air Crafts – Tulare, CA  
Authorized Air Tractor Dealer for California  
September 2015



# Introduction

- Valley Air Crafts and Air Tractor are very pleased to provide this Air Tractor AT-802 briefing package to fire agencies throughout the United States.



Exclusive Air Tractor Dealer for California



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# Air Tractor - An American Success Story

- 3,500 aircraft built in the U.S.
- Ag, fire, and military missions
- 400 AT-802 aircraft built
- 75 scooper "Fire Bosses"
- 75+ 802s/Fire Bosses currently fighting fire in the United States



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# The Air Tractor AT-802

- Purpose-built for rapid initial and sustained attack on forest fires
  - **800 gallon tank**
  - Turbine power
  - Rugged airframe
  - Low operating and maintenance costs
  - Constant flow fire gate
  - Quick fill loading system on ground
  - Optional water scooping floats systems
  - Optional foam or gel injection
  - Fast and highly maneuverable
  - Operate from relatively short runways or remote airstrips



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# The AT-802 is “Bigger” Than You Think

- 16,000 pound gross weight
- 60 foot wing span
- 36 foot length
- 1,350-1,600 hp engine
- The Fire Boss is 2-stories high!
- The 800 gallon water tank is more than 6 feet deep
- More than twice the gross weight and carrying capacity of a typical medium helicopter (e.g. Bell Huey)

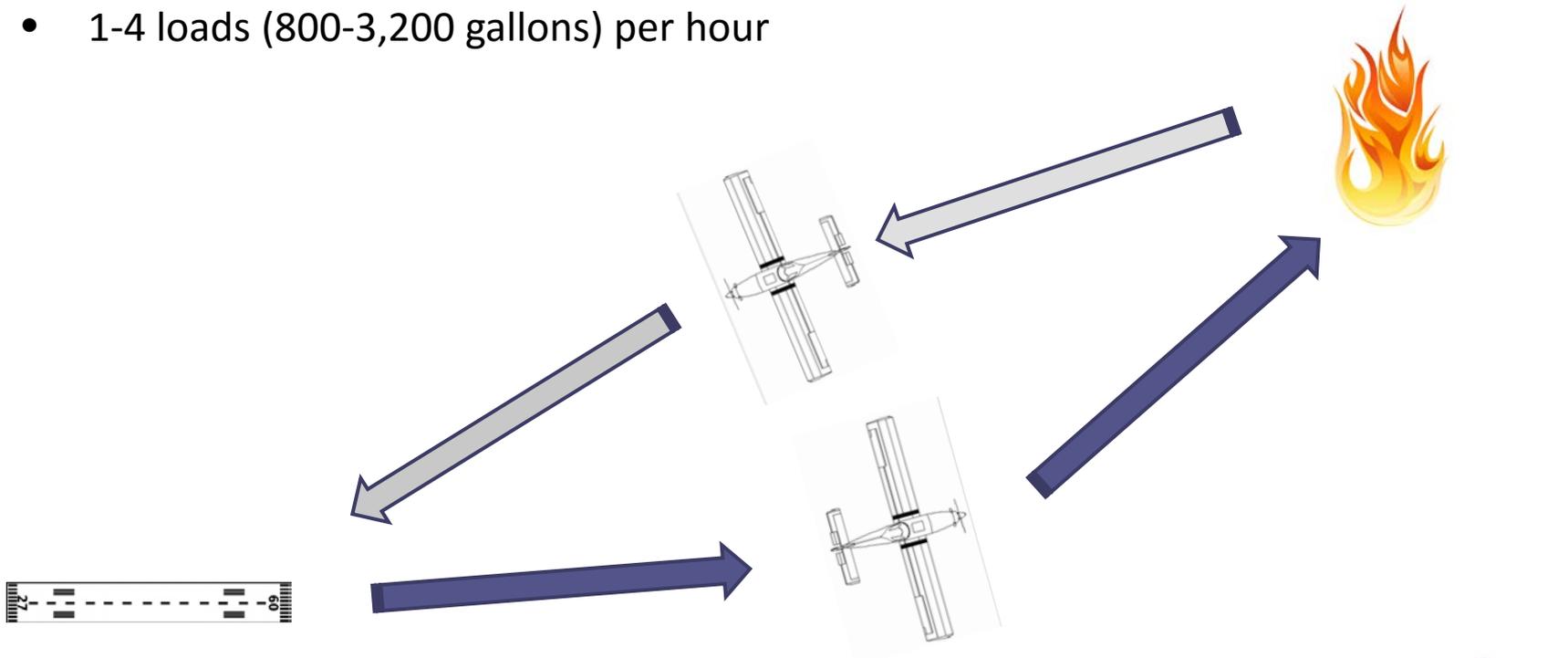


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# AT-802 SEAT Tactics

- Dispatched from an airport loaded with retardant, water, or gel
- Drop load on fire and return to the airport for reload
- 1-4 loads (800-3,200 gallons) per hour

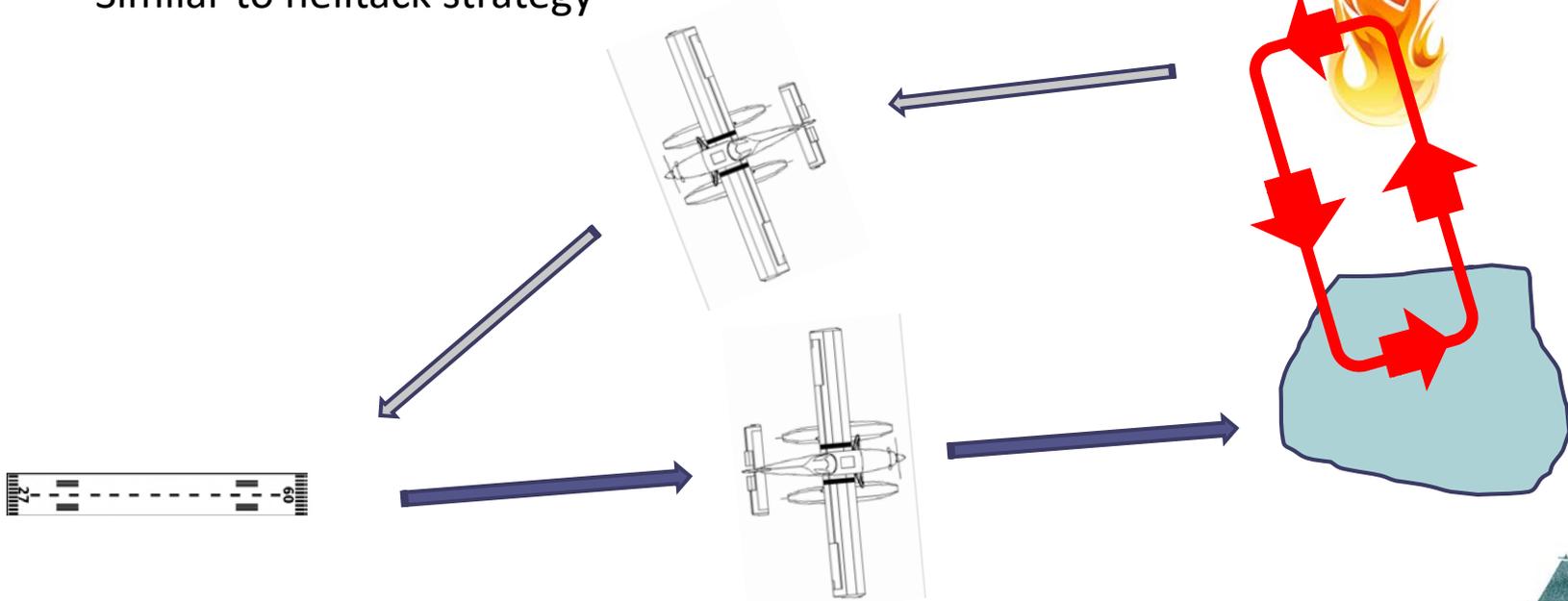


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# AT-802 Fire Boss Scooper Tactics

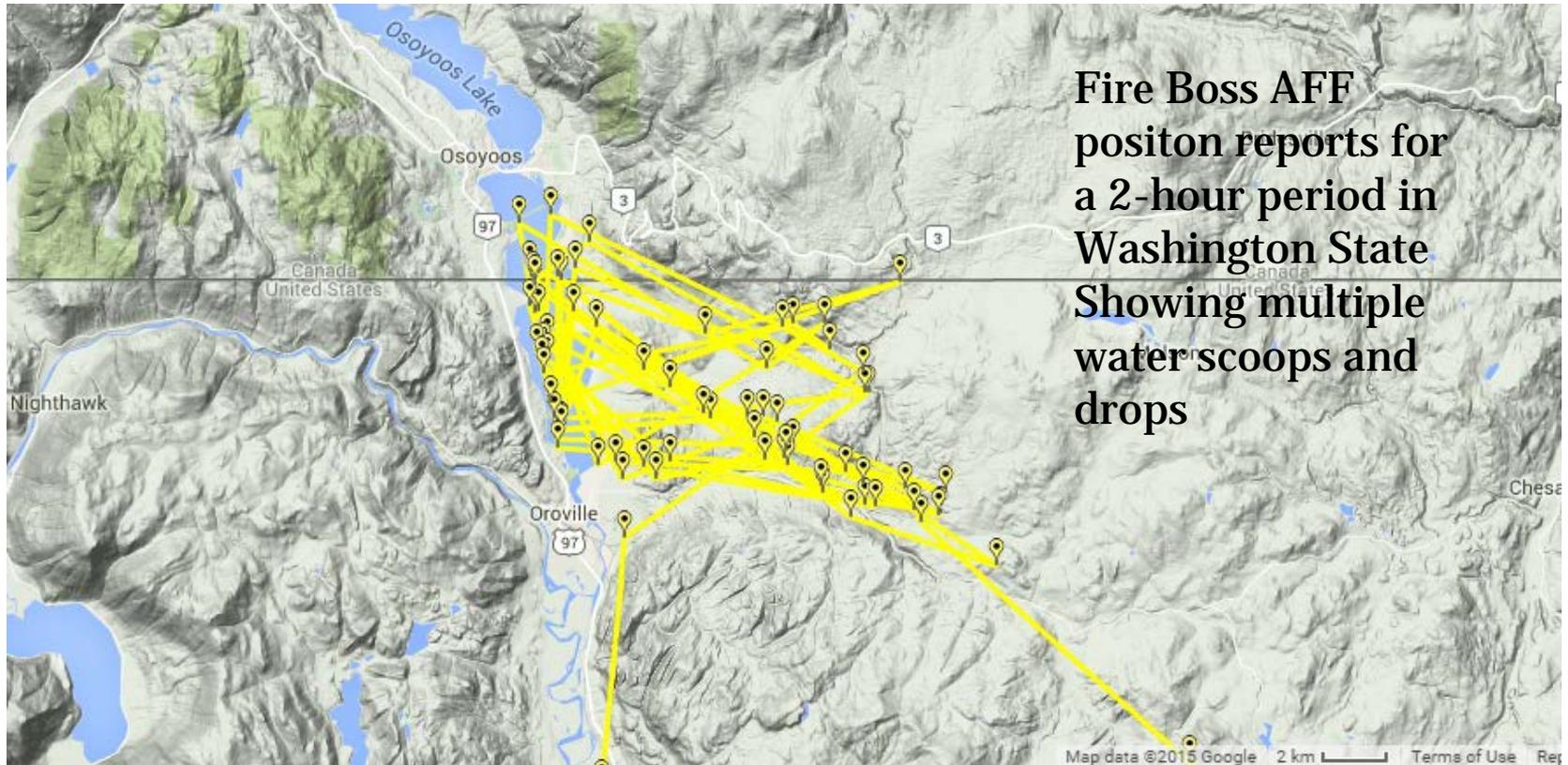
- Dispatched from an airport loaded with retardant, water, or gel
- Remain at fire for 3+ hours scooping water from nearby source
- Return to the airport or airstrip for fuel and reload
- Up to 20 loads (13,000 gallons) per hour
- Similar to helitack strategy



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# Air Tractors at Work in WA State - 2015



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## Some Air Attack Aircraft Comparisons

<b>Type</b>	<b>Gross (Lbs.)</b>	<b>Load (USG)</b>	<b>Price New</b>	<b>Rates</b>
AT-802A	16,000	800	\$1,700,000	AV: \$2,700 FT: \$2,700
AT-802A Fire Boss	16,000	800	\$2,700,000	AV: \$4,300 FT: \$4,200
Bell 407	5,250	210	\$2,700,000	AV: \$3,600 FT: \$1,200
KMAX 1200	12,000	700	\$5,100,000	AV: \$24,960 FT: \$1,700
CL-415 Super Scooper	47,000	1,600	\$42,000,000	AV: \$53,000 FT: \$11,000

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## Cost/Gallon Delivered (4 FT Hours/Day)

<b>Type</b>	<b>Cost/Hr</b>	<b>Loads/Hr</b>	<b>Gals/Hr</b>	<b>Cost/Gal</b>
AT-802A	\$3,375.00	3	2,400	\$1.40
AT-802A Fire Boss	\$5,275.00	10	6,400	\$0.82
Bell 407	\$3,300.00	6	1,260	\$2.62
KMAX 1200	\$7,940.00	6	4,200	\$1.89
CL-415 Super Scooper	\$24,250.00	12	15,360	\$1.58

1. Cost/Hr = Daily AV rate/4 hours + FT Hourly rate
2. Loads per hour assumes same distance from water source to fire for scoopers and helicopters
3. Loaded speed for helicopters is 90 knots – Fire Boss is 150 knots – CL-415 is 180 knots
4. Scooper loads reduced by 20% - assume max load for helicopters

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# Variable Cost Comparison with Bell Hueys

<b>Type</b>	<b>Capacity</b>	<b>Cost/Hour</b>
AT-802A	800	\$730.00
AT-802A Fire Boss	800	\$980.00
Bell UH-1H (Cal Fire)	350	\$1,530.00
Bell 212 (San Diego FD)	360	\$1,552.00
Bell 412 (San Diego FD)	360	\$1,853.00

1. Cost/Hr includes fuel, maintenance labor, parts, engine/prop/rotor reserves, and misc. costs
2. Cost information provided by Conklin & DeDecker and Air Tractor

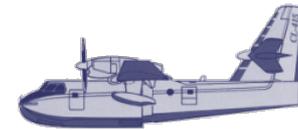
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## A Few Facts

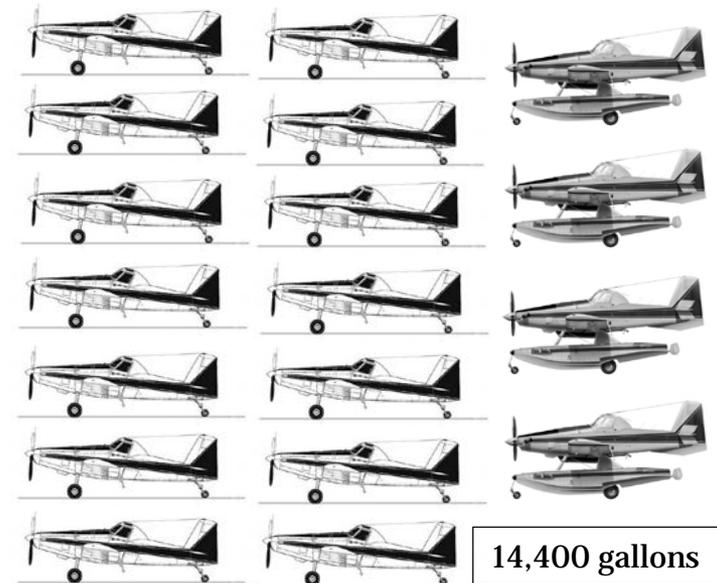
- For the \$42 million price of ONE CL-415 you can buy 24 AT-802s on wheels or 15 AT-802 scooper Fire Bosses
- For the cost of a single CL-415 you could purchase a pair of AT-802s and/or Fire Bosses for every airport within northern LA County (e.g. San Gabriel Valley)
- This year the MN-DNR replaced its 2 aging CL-215s with Air Tractor contract aircraft (4 Fire Bosses and 3 wheeled 802s). The DNR has concluded that it: 1) Doubled the amount of fires actioned; 2) Had no escaped/large fires; 3) Enhanced ground fire-fighter productivity, and 4) saved well over \$1.5 million in fixed wing aircraft costs

\$42 million can buy you ...



1,600 gallons

OR



14,400 gallons

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## Concluding Remarks

- Many U.S. fire agencies are or will be into air fleet modernization programs in a very tight fiscal environment
- Some are already investing millions to upgrade 30-50 year old aircraft (e.g. State Huey helicopters)
- New aircraft options are often beyond budgetary means (e.g. \$42 million for a CL-415; \$16 million for a Bell 412)
- Factory new Air Tractors are a highly cost effective and “Made in America” solution
- Give Air Tractor the chance to prove that its AT-802 fire-fighters can work for you!



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# Thank You!



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