

STUDENT EXERCISE

You are the initial attack Incident Commander on a wildland fire and have made the following determinations:

1. You have four 1 1/2" hoselines deployed each flowing 75 GPM.

What is the total fire flow?

2. You have three apparatus at scene, two engines with 500 gallons of water each and a single water tender with 2000 gallons of water.

What is the total on scene water capacity?

3. How long can you continue to attack the fire without additional water supplies?

4. The nearest accessible water source is a fire hydrant located two miles away on a paved road.

What is the turn around time to obtain water from the source and off load it at the incident?

5. The nearest available water tenders are each 1500 gallons.

How many should you order to meet the incident fire flow requirements?

STUDENT EXERCISE/ANSWER SHEET

You are the initial attack Incident Commander on a wildland fire and have made the following determinations:

1. You have four 1 1/2" hoselines deployed each flowing 75 GPM.

What is the total fire flow? **300 GPM**

2. You have three apparatus at scene, two engines with 500 gallons of water each and a single water tender with 2000 gallons of water.

What is the total on scene water capacity? **3000 GALLONS**

3. How long can you continue to attack the fire without additional water supplies?

10 MINUTES

4. The nearest accessible water source is a fire hydrant located two miles away on a paved road.

What is the turn around time to obtain water from the source and off load it at the incident?

TRAVEL TIME = 2 WAYS X 2 MILES X 2 MINUTES = 8 MINUTES
LOAD TIME = 10 MINUTES
OFF LOAD TIME = 10 MINUTES
28 MINUTES

5. The nearest available water tenders are each 1500 gallons.

How many should you order to meet the incident fire flow requirements?

a. 3000 GALLONS ON-SCENE CAPACITY
1500 GALLON WATER TENDERS = 2

b. 28 MINUTES TRAVEL TIME
10 MINUTES SELF SUFFICIENT WATER SUPPLY= 3

c. 2 X 3 =6 ADDITIONAL WATER TENDERS NEEDED TO MAINTAIN FIRE FLOW