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CAL Guard Fuel Running Estimate

MAJ Michael S. Riley

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Situation: An 7.8 magnitude earthquake has hit the San Francisco Bay Area.

Task: Estimate fuel consumption for each of the first 10 days of the response.



Assumptions:

- Deployment of the entire CANG.
- Units are grouped by population center and drive uniform distances while deploying.
- Units will deploy directly to the staging area.
- Organizations are running 24hr ops.
- All Military vehicles get the same MPG which is a weighted average of the fuel efficiency of our rolling stock on deployment / redeployment days.
- Long haul vehicles will adhere to 150 mile rule.
- 7% of the vehicles will roll on Day 1 for ADVON.
- GSA fuel economy is based on the following:
 - SUV's are all Jeep Patriot's.
 - Sedan's are all Chevy Malibu's.
 - Minivan's are Dodge Caravan's.
 - 15 PAX Van's are GMC Savana 1500.
 - Trucks are Dodge Ram 1500.
 - Only GSA's from G4 and the HRF will be used, all others belong to units like Grizzly/Challenge or Counter Drug that will not mobilize for DSCA.
- Airframes are flying for 8 hours a day of actual flight time.
 - F15's will fly 2 birds (CAP Mission) at a time 24 hours a day for 6 total per day
 - Day 1 will only have ISR in the air, five H-60's, and the F15's.
 - The exception is the C-12 for VIP / Liaison transport that we assume would only fly 5 hours per day.

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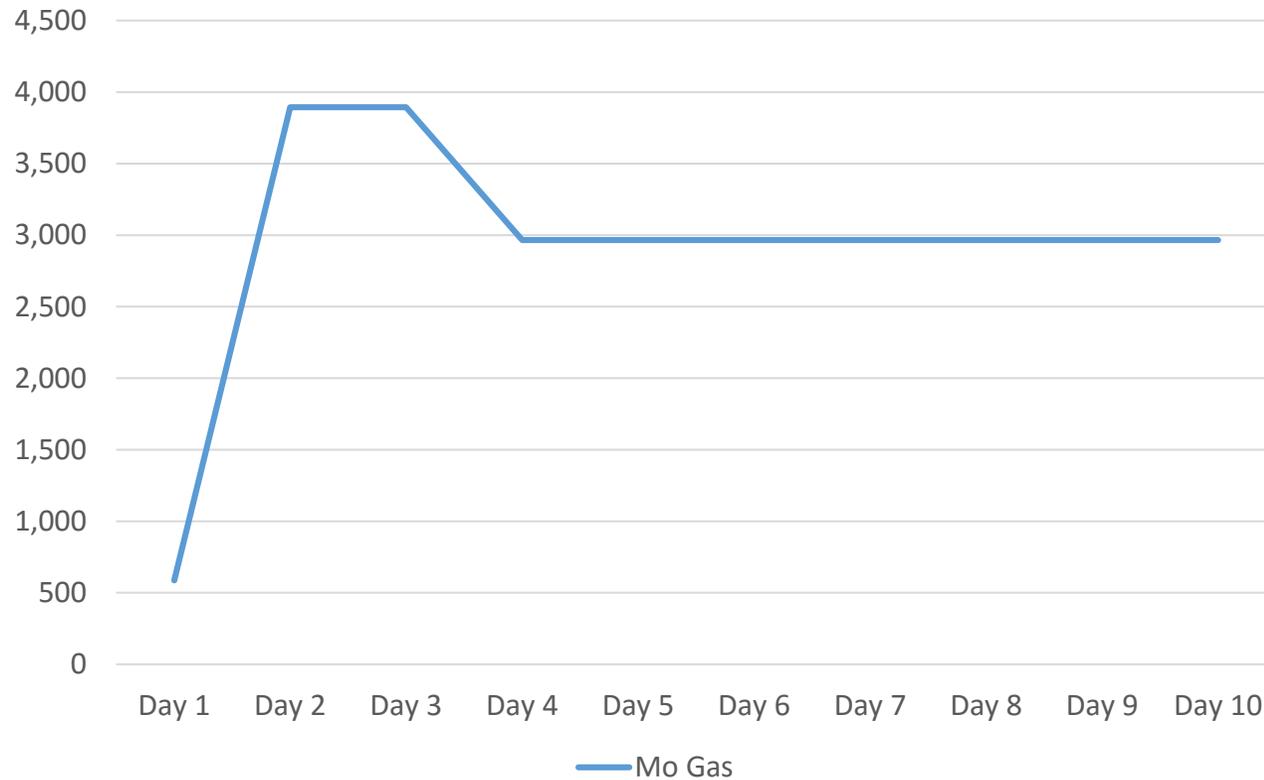


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Fuel Consumption of Mo Gas



Mo Gas



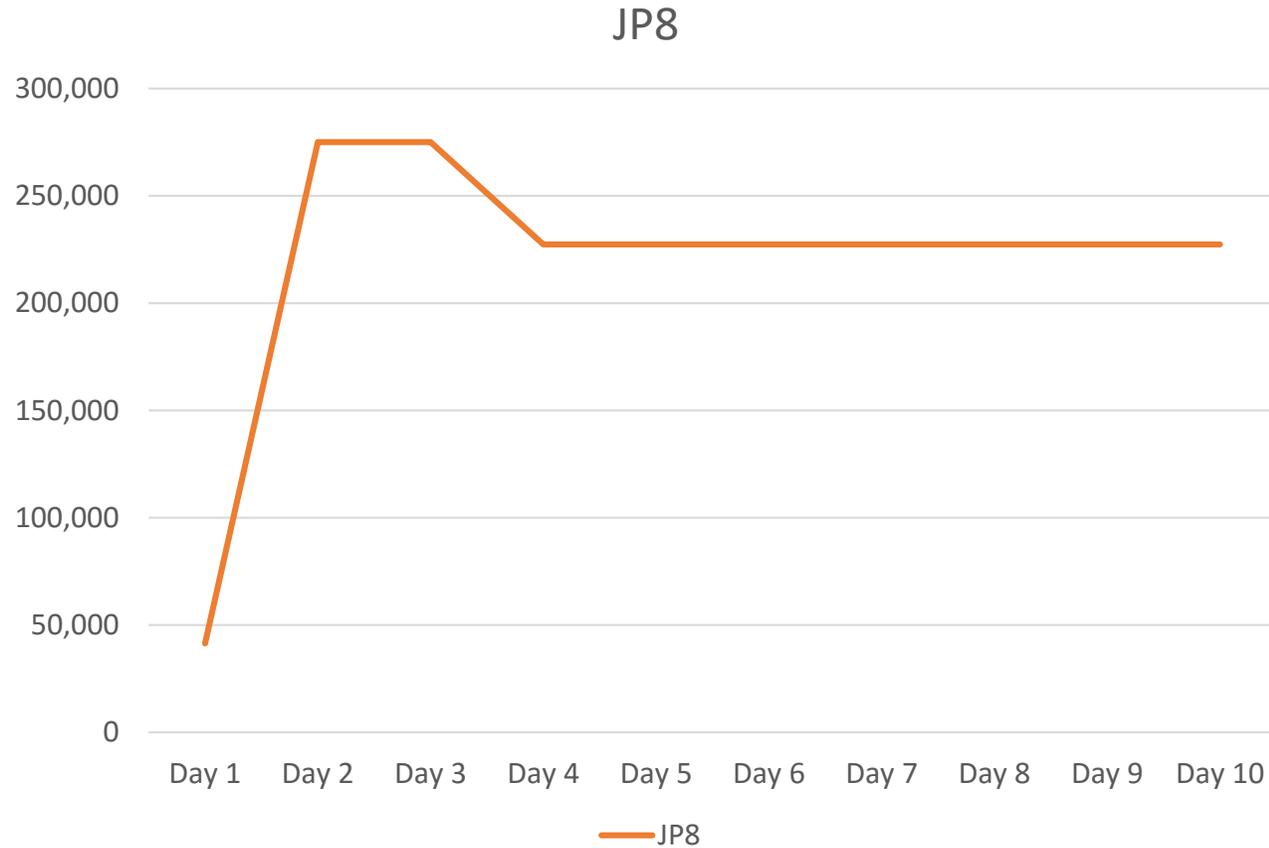
	Mo Gas	Gallons
Day 1		586
Day 2		3,894
Day 3		3,894
Day 4		2,966
Day 5		2,966
Day 6		2,966
Day 7		2,966
Day 8		2,966
Day 9		2,966
Day 10		2,966

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Fuel Consumption of JP8



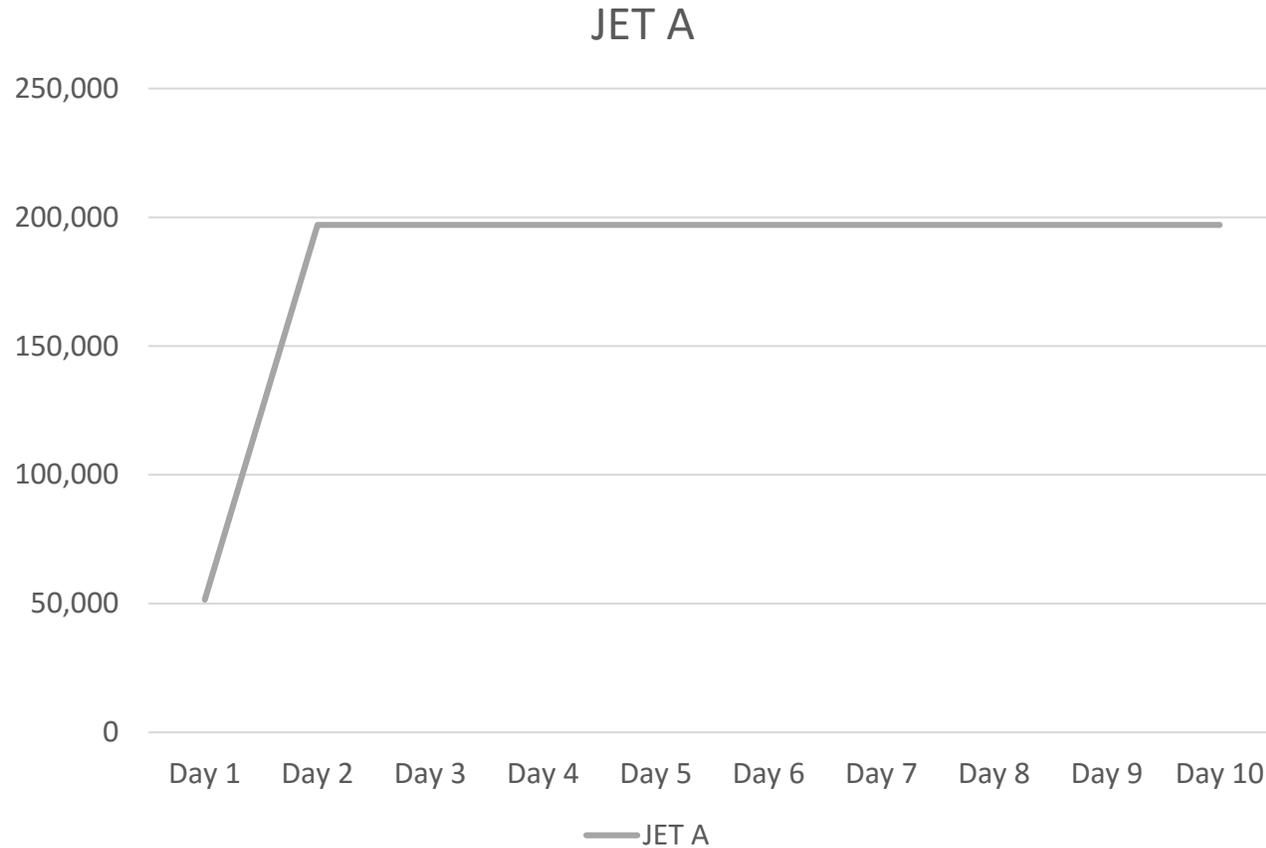
	JP8	Gallons
Day 1		41,412
Day 2		275,093
Day 3		275,093
Day 4		227,370
Day 5		227,370
Day 6		227,370
Day 7		227,370
Day 8		227,370
Day 9		227,370
Day 10		227,370

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Fuel Consumption of JET A



	JET A	Gallons
Day 1		51,528
Day 2		197,072
Day 3		197,072
Day 4		197,072
Day 5		197,072
Day 6		197,072
Day 7		197,072
Day 8		197,072
Day 9		197,072
Day 10		197,072

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Day 1 Summary in gallons



Day 1	
Mo Gas	586
JP8	41,412
JET A	51,528

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Day 2-3 Summary in Gallons



Day 2	
Mo Gas	3,894
JP8	275,093
JET A	197,072

Day 3	
Mo Gas	3,894
JP8	275,093
JET A	197,072

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Day 4-10 Summary in Gallons



Day 4	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 5	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 6	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 7	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 8	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 9	
Mo Gas	2,966
JP8	227,370
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Day 10	
Mo Gas	2,966
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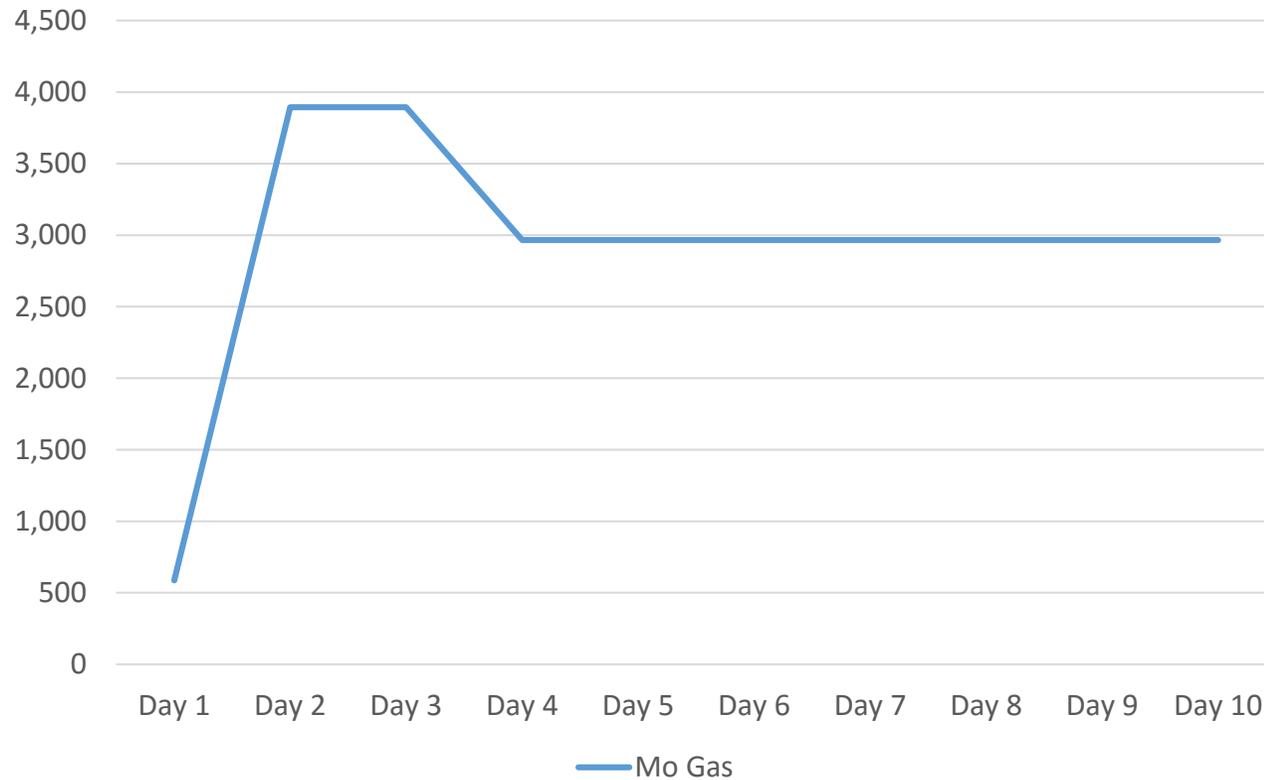


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Fuel Consumption of Mo Gas



Mo Gas



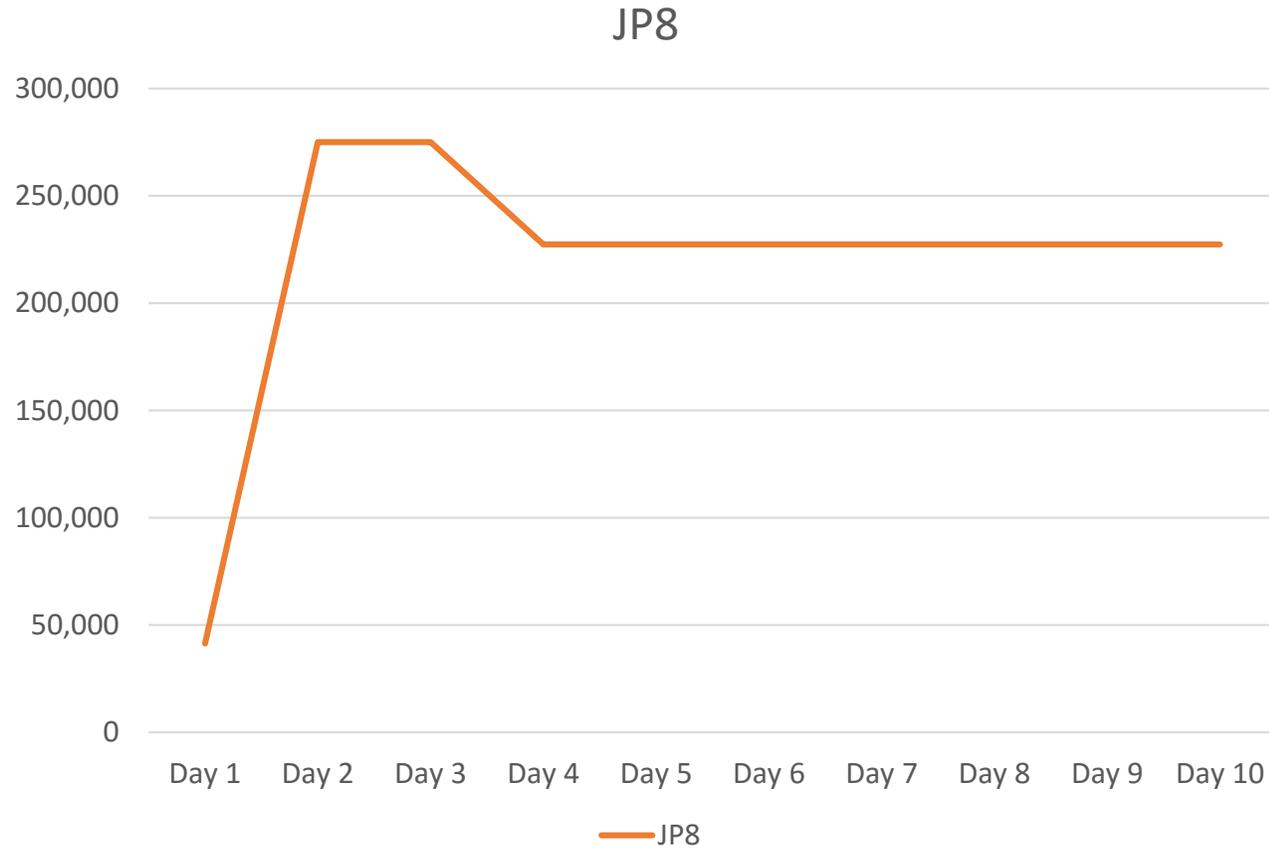
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Day 10		2,966

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Fuel Consumption of JP8



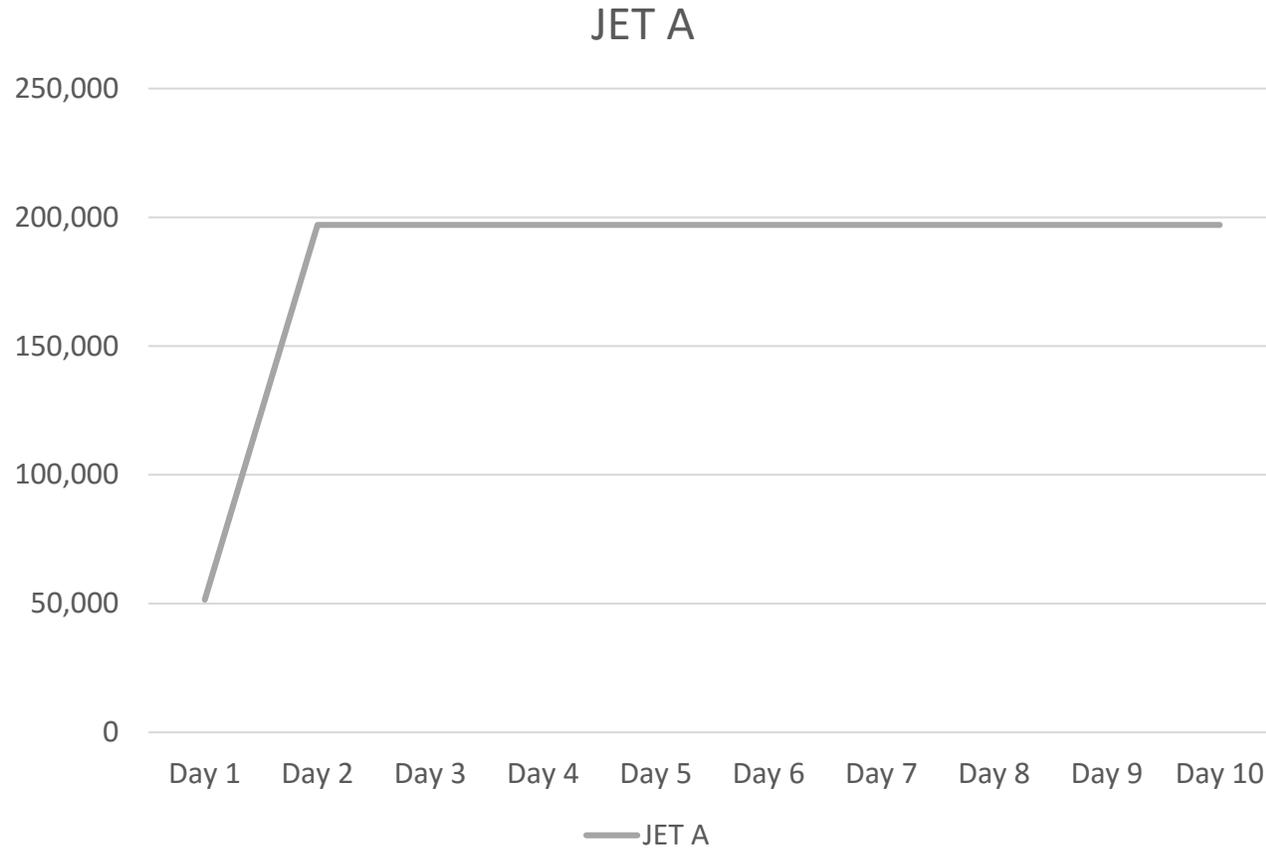
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Fuel Consumption of JET A



	JET A	Gallons
Day 1		51,528
Day 2		197,072
Day 3		197,072
Day 4		197,072
Day 5		197,072
Day 6		197,072
Day 7		197,072
Day 8		197,072
Day 9		197,072
Day 10		197,072

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Day 1 Summary in gallons



Day 1	
Mo Gas	586
JP8	41,412
JET A	51,528

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Day 2-3 Summary in Gallons



Day 2	
Mo Gas	3,894
JP8	275,093
JET A	197,072

Day 3	
Mo Gas	3,894
JP8	275,093
JET A	197,072

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Day 4-10 Summary in Gallons



Day 4	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 5	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 6	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 7	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 8	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 9	
Mo Gas	2,966
JP8	227,370
JET A	197,072

Day 10	
Mo Gas	2,966
JP8	227,370
JET A	197,072

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Questions



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