

INSURANCE SERVICES OFFICE, INC.
HYDRANT FLOW DATA SUMMARY

Community Pennfield Ts Fpsa

County Michigan(Calhoun), State MICHIGAN (21)

Witnessed by: Insurance Services Office

Survey Date: November 10, 2020

TEST NO.	TYPE DIST.*	TEST LOCATION	SERVICE	FLOW - GPM $Q=(29.83(C(d^2)p^{0.5}))$			PRESSURE PSI		FLOW -AT 20 PSI		REMARKS***	MODEL TYPE	FLOW TEST DATE	
				INDIVIDUAL HYDRANTS	TOTAL		STATIC	RESID.	NEEDED **	AVAIL.				
1		hyd @ Pennfield Middle School west driveway	Pennfield TS Water Department, Main	1300	0	0	1300	80	72	4500	3900		FTPC	05/17/2018
1.1		hyd @ Pennfield Middle School west driveway	Pennfield TS Water Department, Main	1300	0	0	1300	80	72	4000	3900		FTPC	05/17/2018
1.2		hyd @ Pennfield Middle School west driveway	Pennfield TS Water Department, Main	1300	0	0	1300	80	72	2000	3900		FTPC	05/17/2018
2		hyd @ Capital Ave NE & Hopkins St	Pennfield TS Water Department, Main	1150	0	0	1150	82	75	3000	3700		FTPC	05/17/2018
3		Morgan & Purdy	Pennfield TS Water Department, Main	0	0	0	1500	52	20	1500	1500		CNMP	04/30/2018
4		Eastwood Dr 1st hyd n/o North Ave	Pennfield TS Water Department, Main	860	0	0	860	50	43	2250	1900		FTPC	05/17/2018
4.1		Eastwood Dr 1st hyd n/o North Ave	Pennfield TS Water Department, Main	860	0	0	860	50	43	1000	1900		FTPC	05/17/2018
5		Bellevue Rd, 2nd SW of Daugherty Dr	Pennfield TS Water Department, Main	990	0	0	990	57	35	500	1300		FTPC	05/17/2018
6		Capital Ave, 3rd N of Morgan Rd	Pennfield TS Water Department, Main	0	0	0	4500	82	20	4500	4500		CNMP	04/30/2018
6.1		Capital Ave, 3rd N of Morgan Rd	Pennfield TS Water Department, Main	0	0	0	4500	82	20	2250	4500	(A)-(1500.0 gpm)	CNMP	04/30/2018
7		Capital Ave & Primrose Tr	Pennfield TS Water Department, Main	0	0	0	3500	77	20	2500	3500		CNMP	04/30/2018
8		Hampton & Cooper	Pennfield TS Water Department, Main	940	0	0	940	57	50	1500	2300		FTPC	05/17/2018
9		Pickford Ave, 1st N of Darlene Ln	Pennfield TS Water Department, Main	920	0	0	920	75	68	1000	2800		FTWI	05/17/2018
10		Capital Ave & Montford St	Pennfield TS Water Department, Main	0	0	0	1700	72	20	2250	1700		CNMP	04/30/2018
11		Capital Ave, 1st N Carleton Dr N	Pennfield TS Water Department, Main	0	0	0	3900	78	20	4000	3900		CNMP	04/30/2018
11.1		Capital Ave, 1st N Carleton Dr N	Pennfield TS Water Department, Main	0	0	0	3900	78	20	2250	3900		CNMP	04/30/2018

THE ABOVE LISTED NEEDED FIRE FLOWS ARE FOR PROPERTY INSURANCE PREMIUM CALCULATIONS ONLY AND ARE NOT INTENDED TO PREDICT THE MAXIMUM AMOUNT OF WATER REQUIRED FOR A LARGE SCALE FIRE CONDITION.

THE AVAILABLE FLOWS ONLY INDICATE THE CONDITIONS THAT EXISTED AT THE TIME AND AT THE LOCATION WHERE TESTS WERE WITNESSED.

*Comm = Commercial; Res = Residential.

**Needed is the rate of flow for a specific duration for a full credit condition. Needed Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Suppression Rating Schedule.

*** (A)-Limited by available hydrants to gpm shown. Available facilities limit flow to gpm shown plus consumption for the needed duration of (B)-2 hours, (C)-3 hours or (D)-4 hours.

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				INDIVIDUAL HYDRANTS	TOTAL		STATIC	RESID.	NEEDED **	AVAIL.				
12		Garrison Rd & Hidden Ln	Pennfield TS Water Department, Main	0	0	0	2500	53	20	2500	2500		CNMP	04/30/2018
13		hyd on North Ave 1st n/o Norave Dr	Pennfield TS Water Department, Main	1300	0	0	1300	80	72	750	3900		FTPC	05/17/2018
14		E Goodale Ave, 2nd w/o North Ave	Battle Creek Water Department, Low	2260	1750	0	4010	61	52	2500	9100		FTPC	05/24/2016

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