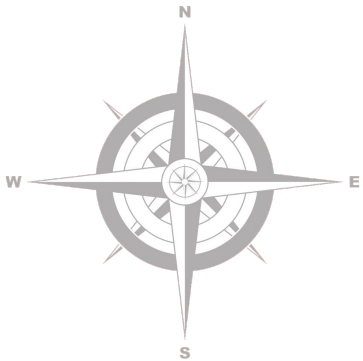

WPS School Reopening Plan 2020-2021

School Committee Presentation
August 13, 2020



WELLESLEY PUBLIC SCHOOLS
Learning • Caring • Innovating

Reopening Updates

- Air Quality/Ventilation
- Cleaning/Disinfection
- Use of the Heat Index
- SY2020-21 Calendar
- Remote Learning School (RLS)
- Tents
- Parent Forums/Intent to Commit Outreach

FMD: Qualifications and Experience

- Custodial: 2018 National Award for Green Cleaning
 - American School & University Magazine
- Maintenance & Capital Planning
 - Highest Number of Incentive Points - MSBA Project
 - Seven licensed professional tradespeople in-house
- Management/In-House Staff:
 - Operations Manager - Electrical Engineer
 - Custodial Manager - ISSA Certified
 - Maintenance Manager - MS Facilities Management
 - Professional Engineer
 - 2 Licensed Architects
- February 2020 MA DPH IAQ Assessment of WMS
 - Favorable towards HVAC systems and maintenance

Town's HVAC Investment in Facilities

- HVAC Recommissioning
 - Extraordinary maintenance of mechanical systems by specialists
 - Schools recommissioning on a 5-year cycle
 - HHU, Bates, Sprague, WMS: Recommissioned 2019-2020 heating system (\$328K)
- Digital Controls of HVAC Equipment
 - “Metasized” school facilities
 - \$300K since 2012
- Fiske / Schofield Renovations
 - \$20M Renovation in 2015/2016 - all new HVAC systems
- Cash Capital and Operational Budgets

Ventilation Discussion Points

- ASHRAE Guidelines Excerpt:
 - *“In sum, ASHRAE recommends increasing outdoor air as a percentage of total supply air and increasing the overall ventilation rates. However, they do not provide specific guidance on these increases. Instead, they refer to the recommended ventilation rates as specified in ASHRAE 62.1.”*

Ventilation Discussion Points

- Air Changes Per Hour (ACH):
 - All schools meet ASHRAE 62.1 guidelines
 - Capacity to provide between 1 and 9 ACH
 - Actual ACH impacted by:
 - MERV rating of filters (High MERV limits volume)
 - Age, condition and capacity of equipment
 - Other considerations with higher ventilation
 - Cannot maintain heat (cold drafts)
 - Noisier
 - As a result, often turned off

Ventilation Discussion Points

- Windows:
 - Recommended to supplement mechanical ventilation
 - All classrooms have operable windows
 - Hardy and Upham need insect screens:
 - FMD working on installing

Ventilation Discussion Points

- Filtration and MERV Rating - Guidelines Excerpt:
 - *“ASHRAE has established Minimum Efficiency Reporting Value (MERV) ratings for air filters. As described above, they have also established recommended MERV ratings to help minimize spreading the COVID-19 virus. The MERV ratings range from 1 to 16. The higher the rating, the more efficient the filters are in removing particles from the air stream. Typically, ASHRAE recommends using MERV 8 filters in most commercial buildings. However, for COVID-19, they recommend using MERV 13 filters. ASHRAE states that “The use of highly efficient particle filtration in centralized HVAC systems reduces the airborne load of infectious particles ... [i.e., COVID-19 virus].” ASHRAE recommends applying “... the highest Minimum Efficiency Reporting Value (MERV) [filter] applicable for the HVAC units (local, central and DOAS). HEPA or MERV 13 is recommended minimum if equipment can accommodate pressure drop ...”*

Ventilation Discussion Points

- Existing School Filter Inventory:

Existing Annual Filter Change Plan							
#	Building	≤ 8	8	8 ≥	Total/Chg	Chg./Yr.	Total/Yr.
1	Bates	45	35	-	80	3.0	240
2	Fiske	-	70	6	76	2.8	216
3	Hardy	3	14	-	17	3.0	51
4	HS	405	243	210	858	1.3	1,098
5	Hunnewell	36	4	-	40	3.0	120
6	MS	144	140	-	284	3.0	852
7	PAWS	-	16	-	16	3.0	48
8	Schofield	54	30	-	84	3.0	252
9	Sprague	71	35	35	141	2.5	353
10	Upham	14	2	-	16	3.0	48
Total/Average		772	589	251	1,612	2.0	3,278
% Total		48%	37%	16%	100%		

Ventilation Discussion Points

- Filtration and MERV Rating:
 - Considerations in increasing MERV Rating
 - Increased pressure drop
 - Limited by equipment age, condition and capacity
 - Possible motor failure
 - Reduced air volume across filter (fewer ACH)
 - Other considerations with higher MERV
 - May not fit existing filter rack
 - Availability of higher MERV media
 - 6+ weeks or longer for speciality filters
 - 3-5 times the cost

Ventilation Discussion Points

- Portable (Stand Alone) Filtration Devices:
 - Alternatives for lower MERV filters - HHU
 - Consider stand alone units with HEPA filters
 - Expand use to classrooms - not just nurse/isolation rooms
 - Likely would require two units per classroom
 - Challenges to classroom installation
 - Existing older electrical systems at HHU
 - Increased noise - even with quieter units
 - Tripping hazard
 - Maintenance - HEPA filters changed frequently
 - Additional custodial impact
 - Unit purchase cost plus ongoing filter cost

Ventilation Discussion Points

- Portable Filtration Devices Guidelines Excerpt:
 - “When appropriately selected and deployed, single-space high-efficiency filtration units (either ceiling mounted or portable) can be highly effective in reducing/lowering concentrations of infectious aerosols in a single space.”
 - However, they also state that “Scientific data addressing the effects of these air cleaners on health are sparse and inconclusive.” ASHRAE also states that “Presently, minimal data are available on the health consequences of using packaged air cleaners ...”
 - In addition, NAFA states that “Although portable air filtration units *could* contribute to reducing the transmission of airborne pathogens, there is no conclusive clinical evidence that portable air filtration units reduce the risk of airborne infectious disease.”

Current Ventilation Investigations

- Assessing Impacts of Upgraded Filters (Higher MERV)
 - FMD staff managing
 - Three representative schools
 - WMS, Fiske, and Hardy
 - *What is the highest MERV filter we can use?*
 - Impacts to air changes per hour and equipment
 - Schedule to be complete by August 21st

Current Ventilation Investigations

- Stand-Alone Air Filters with HEPA media
 - DESE recommends for Nurses/Isolation Rooms
 - Consider classroom use in HHU schools
 - Where MERV may be less than 8
- Electrical Assessment of HHU Schools
 - Access ability to add air filters in all classrooms
 - Existing electrical system concerning based on age
 - Electrical consultant engaged
 - Schedule to be completed by August 28th
 - Possible upgrades to accommodate increased load

Cleaning and Disinfection

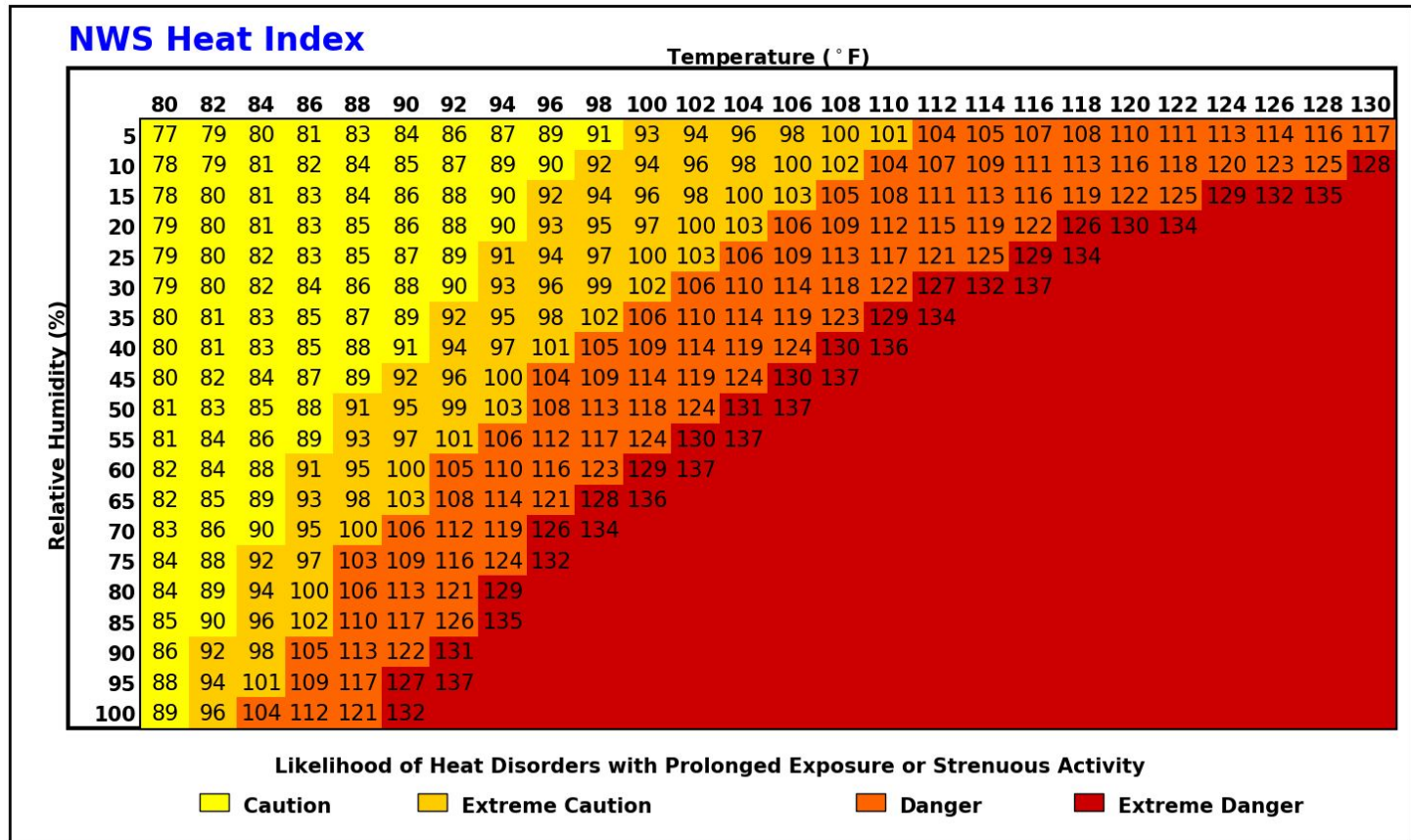
- FMD's Guidelines align with DESE, CDC and State
- Daily Cleaning and Disinfection of all locations
 - Including student desks, tables and chairs
- Additional Cleaning / Disinfection Throughout the Day
 - Touch points and high traffic areas
- Assist in Lunch Cleanup in Classrooms
 - Provide spray bottles w/cleaner and paper towels
 - Disinfecting right after lunch is not feasible

Cleaning and Disinfection

- Custodial Impacts:
 - Second shift custodian to report early to assist with lunches
 - Evening rentals likely need to be cancelled
 - Additional tasks to current staff:
 - Lunch in classrooms (K-8)
 - Nightly cleaning / disinfection
 - Possible air filtration unit maintenance at HHU
 - “Man-Out” cleaning scenario likely
 - Hand Sanitizing Refilling / Maintenance

Heat and Humidity Days

- Many school buildings are not air conditioned and can very very hot in the fall and spring, especially in the upper floors
- Impact on staff and students especially with a face covering



Heat and Humidity Days

- Following practices in the upcoming school year:
 - Fans will be placed in strategic locations to maximize air flow and minimize potential for virus circulation.
 - We will use the heat index, which takes into consideration both the temperature and relative humidity, as a metric to determine where and how we will teach and learn.
 - If the heat index is in the “Caution” zone, educators will be encouraged to teach in an outdoor environment.
 - If the heat index is expected to be in the “Extreme Caution” zone or higher, the Superintendent will call a “Heat Day” and notify the school community that teaching and learning will happen remotely on that day.

WPS 2020-21 ACADEMIC YEAR CALENDAR 8-10-20 DRAFT

August 20						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

February 21						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

Aug 26, 27 & 28
 Aug 31 thru Sept 9
 Sept 7th
Sept 10, 11, & 14
 Sept 15th
 Sept 16th
 Sept 17th

New Professional Staff
 All WPS Staff Professional Days
Labor Day - No School
Student Check-ins/Orientation
 1st Day of School 1/2 day-Cohort A
 1st Day of School 1/2 day-Cohort B
 1st Full Day - Cohorts A & B
 Cohort A(in-person) Cohort B(at home)
Yom Kippur - No School

September 20						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

March 21						
Su	M	Tu	W	Th	F	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September 28 (Monday)
 October 12 (Monday)
 October 27 (Tuesday)
 November 3 (Tuesday)
 November 11 (Wednesday)
 November 25 (Wednesday)
 November 26-27(Thurs,Fri)
 November 30 (Monday)
 December 24 - January 1
2021

Columbus Day - No School
Early Dismissal PreK-5 Parent Conf
1/2 Day - Elections (see note)
Veteran's Day - No School
All Schools & Staff Half Day
Thanksgiving Recess - No School
Professional Day - No School
Year-end Vacation

October 20						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April 21						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

January 4 (Monday)
 January 18 (Monday)
 February 15 - 19
 April 2 (Friday)
 April 6 (Tuesday)
 April 19 - 23
 May 31 (Monday)
 June 4 (Friday)

School Reopens
Martin Luther King Day -No School
February Vacation Week
Good Friday - No School
Early Dismissal PreK-5 Parent Conf
April Vacation Week
Memorial Day - No School
WHS Grad/Half Day WHS Only
Final School Day-assumes 5 contingency days (See Note*)

November 20						
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

May 21						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

June 25 (Friday)

Closing Day-Teachers Final School Day assumes 5 contingency days

For SY20-21, every Wednesday will be a half day for students in grades K-12. Wednesdays will also be used as an in-school day for cohorts to balance weeks w/holidays or other events.

December 20						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

June 21						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

No School

Cohort A will follow Monday's schedule on Wednesday for holiday weeks: **9/28, 10/12, 11/30/20, 1/18 & 5/31/20**

Cohort B will follow in-school schedule on Wednesday for missed in-school days on **11/3/20 and 4/2/21**

Additional **Elementary** Early Release Date for Parent Conf.

Half Day - All Schools - Elections

Graduation Day - WHS 1/2 Day

***NOTE: For Cohorts A & B, the final day of school will be an in-person half day . With no contingency days used, Cohort A's last day will be June16 and Cohort B's last day will be June 17th. With 5 contingency days, Cohort A's last day will be June 23rd and Cohort B's last day will be June 24th.**

January 21						
Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Student Scheduled Days

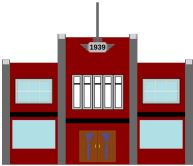


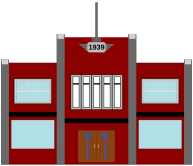


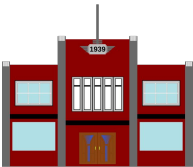


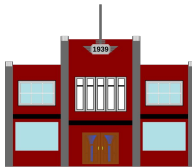
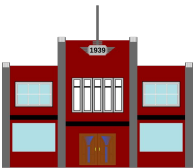
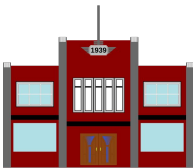

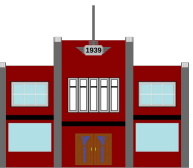
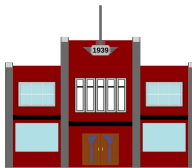
September	10	February	15
October	21	March	23
November	17	April	16
December	17	May	20
January	19	June	17

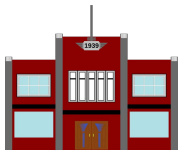
175

Please see PAWS Website for PAWS-specific Start/Stop Dates

Approved by School Committee: TBD

WPS Recommendation for Fall 2020

	Monday	Tuesday	Wednesday Half Day	Thursday	Friday
Cohort A <i>(students in hybrid)</i>					
Cohort B <i>(students in hybrid)</i>					
Prioritized Students					
Students enrolled in Remote Learning School (RLS)	RLS	RLS	RLS	RLS	RLS



In school learning



At home learning



Remote Learning

RLS

Remote Learning School

WPS Recommendation for September: Within the Week Hybrid Model & RLS

- **Fixed Days**
 - Cohort A: Mon/Thurs
 - Cohort B: Tue/Fri
 - Prioritized Students
 - Attend Mon/Tue/Thurs/Fri
- **Wednesday Mornings: Remote Learning**
 - Cohorts A, B, & Prioritized Students (*together*)
- **Remote Learning School (RLS)**
 - Those students who will remain at home
 - Mon/Tue/Wed (AM)/Thurs/Fri

Remote Learning School (RLS)

- K-12 self-contained school for students who *must* remain at home
 - Opt *in* to RLS → at any point
 - Opt *out* of RLS → end of first semester (late January)
- RLS format will be a blend of:
 - Synchronous (“live”) learning
 - Asynchronous (e.g. prerecorded, web-based) learning
 - Self-directed offline learning

Remote Learning: Updated Expectations

- DESE amendment to state law on student learning time now includes Remote Learning
- All students participate & attendance is taken
- Aligned with MA state standards
- Feedback and grades on remote academic work
- Regular communication with students and families about Remote Learning
- More “live” teaching and learning (online synchronous)

Remote Learning School (RLS)

- K-5
 - WPS Educators
 - WPS Curriculum
 - Core Academics & *Most* Specialist Classes
 - Sample Schedules (See pp. 91-93 WPS Reopening Plan)

- 6-12
 - Core Academics & *Some* Electives
 - We will do *our best* to ensure:
 - WPS Educators
 - WPS Curriculum
 - Students are in the level classes they chose (CP, ACP, Honors, APs)

Tents

- Tent Rental:
 - Twelve (12) large (approximately 40x80) tents
 - Two-week lead time for installation
 - Cost \$425K for two months
- Permanent Canopies:
 - Fabric coverings - removal during winter month
 - Eight (8) large shade canopies
 - Six-eight week lead time for installation
 - Cost \$200K - \$400K
- Permanent Canopies:
 - Metal coverings - year round use
 - Eight (8) large shade canopies
 - Eight-twelve week lead time for installation
 - Cost \$500K - \$1M+

Next Week

- Parent Surveys to Confirm Learning Model and Transportation Options will go out tomorrow (8/14/20)
- Parent Forums (Live Zoom Webinars)
 - Elementary Schools (Monday, August 17th, 5-6PM)
 - PAWS (Tuesday, August 18th, 4-5PM)
 - WHS (Tuesday, August 18th, 5-6PM)
 - WMS (Wednesday, August 19th, 4-5PM)

Q & A