

MOLD SPORE TRAP REPORT
By: Nonviable Direct Microscopy

Prepared for

Karl & Associates

CLIENT PROJECT: 26-0843-O, Montgomery BOE Orchard School

LAB CODE: 788385-1

TEST METHOD: CEI Method 110

REPORT DATE: 09/24/26

MOLD SPORE TRAP REPORT

By: Nonviable Direct Microscopy

Client: Karl & Associates
20 Lauck Road
Mohnton, PA 19540

Lab Code: 788385-1
Date Received: 09/22/26
Date Analyzed: 09/24/26
Date Reported: 09/24/26

Project: 26-0843-O, Montgomery BOE Orchard School

Method: CEI Method 110

		O-01				O-02				O-03			
Client ID													
Lab ID													
Location													
Volume													
IDENTIFICATION		Raw Counts	% Analyzed	Spores per m³	% of Total	Raw Counts	% Analyzed	Spores per m³	% of Total	Raw Counts	% Analyzed	Spores per m³	% of Total
Predominantly Outdoor	Alternaria												
	Arthrinium												
	Ascospores - Non-Specified	2	100	13	1	36	100	240	4	8	100	53	2
	Basidiospores - Non-Specified	58	100	387	35	105	14	5000	92	108	29	2480	86
	Bipolaris/Drechslera-like												
	Cercospora - Like												
	Curvularia					1	100	7	<1				
	Epicoccum									2	100	13	<1
	Helicomyces*												
	Nigrospora												
	Peronospora												
	Myxomycetes/Periconia/Smuts/Rusts	21	100	140	12	10	100	67	1	33	100	220	8
	Pithomyces									1	100	7	<1
	Spegazzinia												
	Stemphylium												
	Tetraploa												
	Torula												
	Non-specified spore					1	100	7	<1				
Total		168		1100	100%	166		5400	100%	170		2900	100%
Background Debris		2				2				2			
Pollen Count													
Hyphal Fragments						2				11			
Analytical Sensitivity (Spores/m³)		6.7				6.7				6.7			

* Helicomyces includes Helicosporium

Spores per m³ (final counts) reported to 2 significant figures

Spores of Aspergillus, Penicillium, and others are small with few distinguishing features and therefore can not be differentiated.

If % analyzed is <100%, spores per m³ is based on extrapolation and not actual count.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.



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		Client ID	O-04				O-05				O-06			
		Lab ID												
		Location												
		Volume												
IDENTIFICATION		Raw Counts	% Analyzed	Spores per m³	% of Total	Raw Counts	% Analyzed	Spores per m³	% of Total	Raw Counts	% Analyzed	Spores per m³	% of Total	
Predominantly Outdoor	Alternaria					1	100	7	1					
	Arthrinium													
	Ascospores - Non-Specified	9	100	60	1	6	100	40	4	9	100	60	2	
	Basidiospores - Non-Specified	108	18	4000	86	143	100	953	87	103	21	3267	88	
	Bipolaris/Drechslera-like													
	Cercospora - Like													
	Curvularia													
	Epicoccum									1	100	7	<1	
	Helicomyces*													
	Nigrospora													
	Peronospora													
	Myxomycetes/Periconia/Smuts/Rusts	7	100	47	1	1	100	7	1	6	100	40	1	
	Pithomyces									1	100	7	<1	
	Spegazzinia													
	Stemphylium													
Tetraploa														
Torula														
Non-specified spore														
Total		205		4600	100%	164		1100	100%	169		3700	100%	
Background Debris		2				2				2				
Pollen Count														
Hyphal Fragments										1				
Analytical Sensitivity (Spores/m³)		6.7				6.7				6.7				

* *Heliocomyces* includes *Helicosporium*

Spores per m³ (final counts) reported to 2 significant figures

Spores of *Aspergillus*, *Penicillium*, and others are small with few distinguishing features and therefore can not be differentiated.

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		Client ID	O-OUT		
		Lab ID			
		Location			
		Volume			
IDENTIFICATION		Raw Counts	% Analyzed	Spores per m³	% of Total
Predominantly Outdoor	Alternaria				
	Arthrinium				
	Ascospores - Non-Specified	107	46	1553	12
	Basidiospores - Non-Specified	113	7	10760	80
	Bipolaris/Drechslera-like				
	Cercospora - Like	1	100	7	<1
	Curvularia	5	100	33	<1
	Epicoccum				
	Helicomyces*				
	Nigrospora	2	100	13	<1
	Peronospora				
	Myxomycetes/Periconia/Smuts/Rusts	15	100	100	1
	Pithomyces	2	100	13	<1
	Spegazzinia	1	100	7	<1
	Stemphylium				
	Tetraploa				
Torula					
Non-specified spore	5	100	33	<1	
Total		386		13000	100%
Background Debris					
Pollen Count					
Hyphal Fragments					
Analytical Sensitivity (Spores/m³)					

* Heliocomyces includes Helicosporium

Spores per m³ (final counts) reported to 2 significant figures

Spores of *Aspergillus*, *Penicillium*, and others are small with few distinguishing features and therefore can not be differentiated.

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Built Environment Testing

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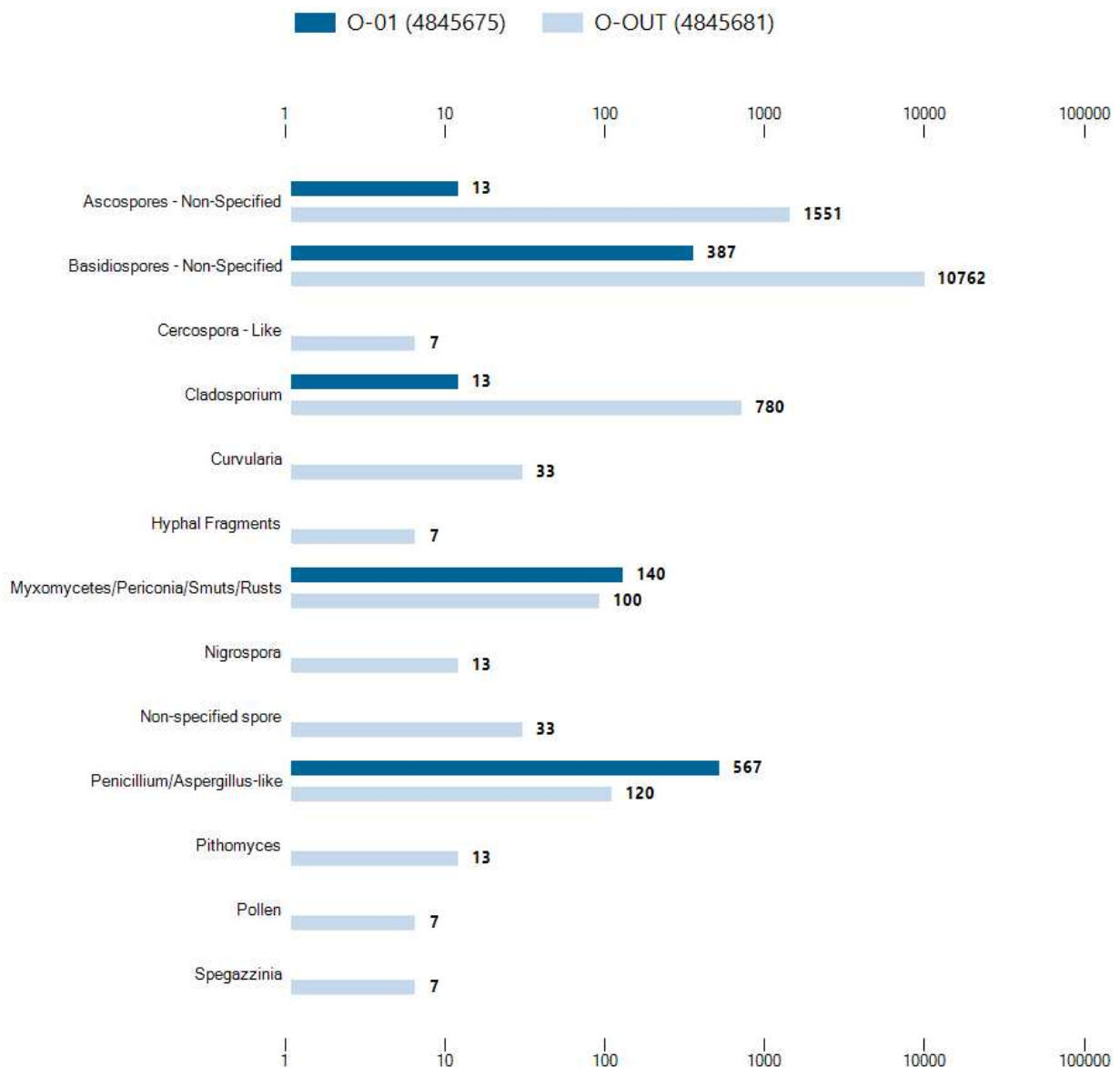
Client: Karl & Associates
20 Lauck Road
Mohnton, PA 19540

Lab Code: 788385-1
Date Received: 09/22/26
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Method: CEI Method 110

Calculated spores per cubic meter





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MOLD SPORE TRAP REPORT

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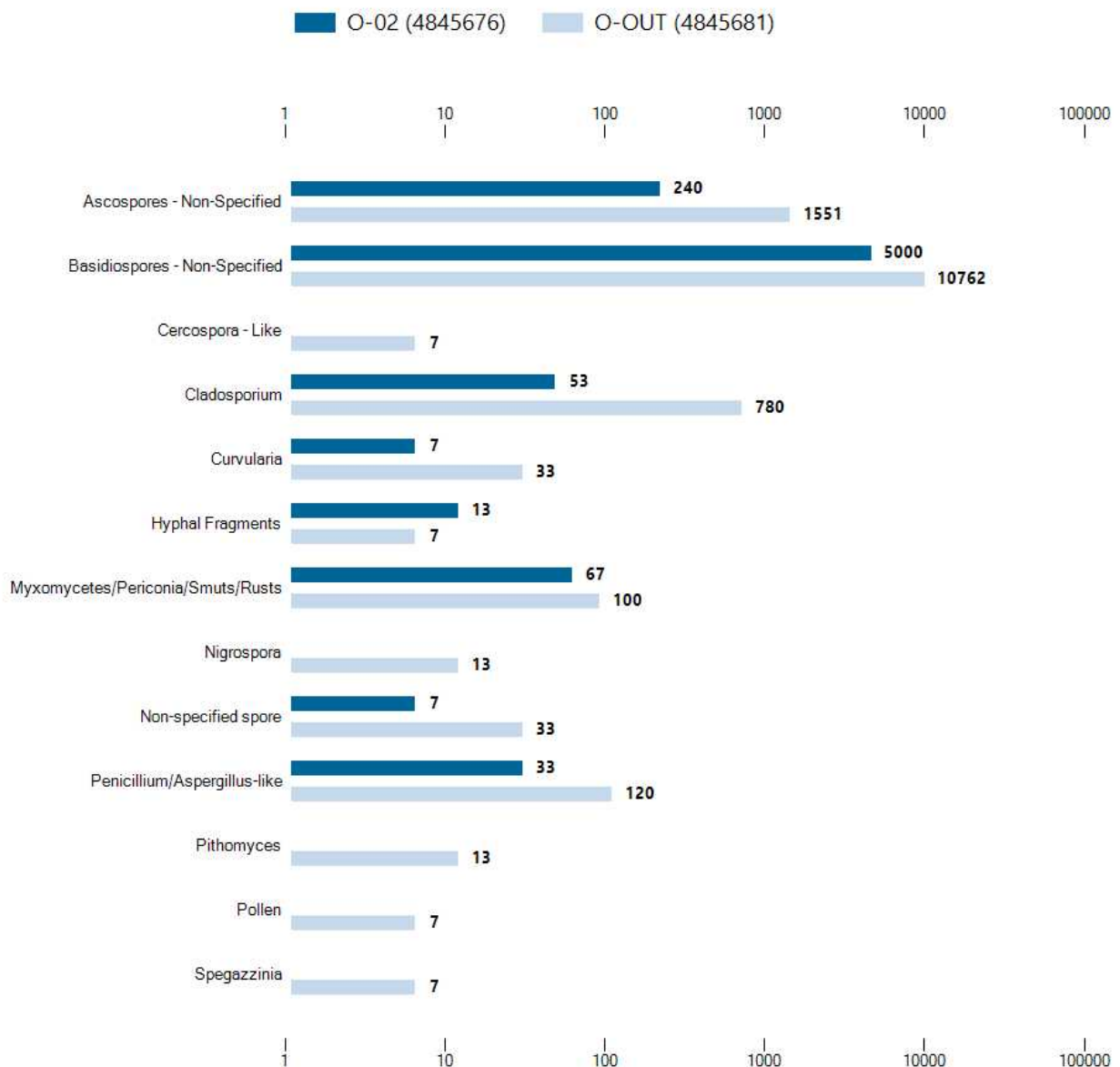
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Calculated spores per cubic meter





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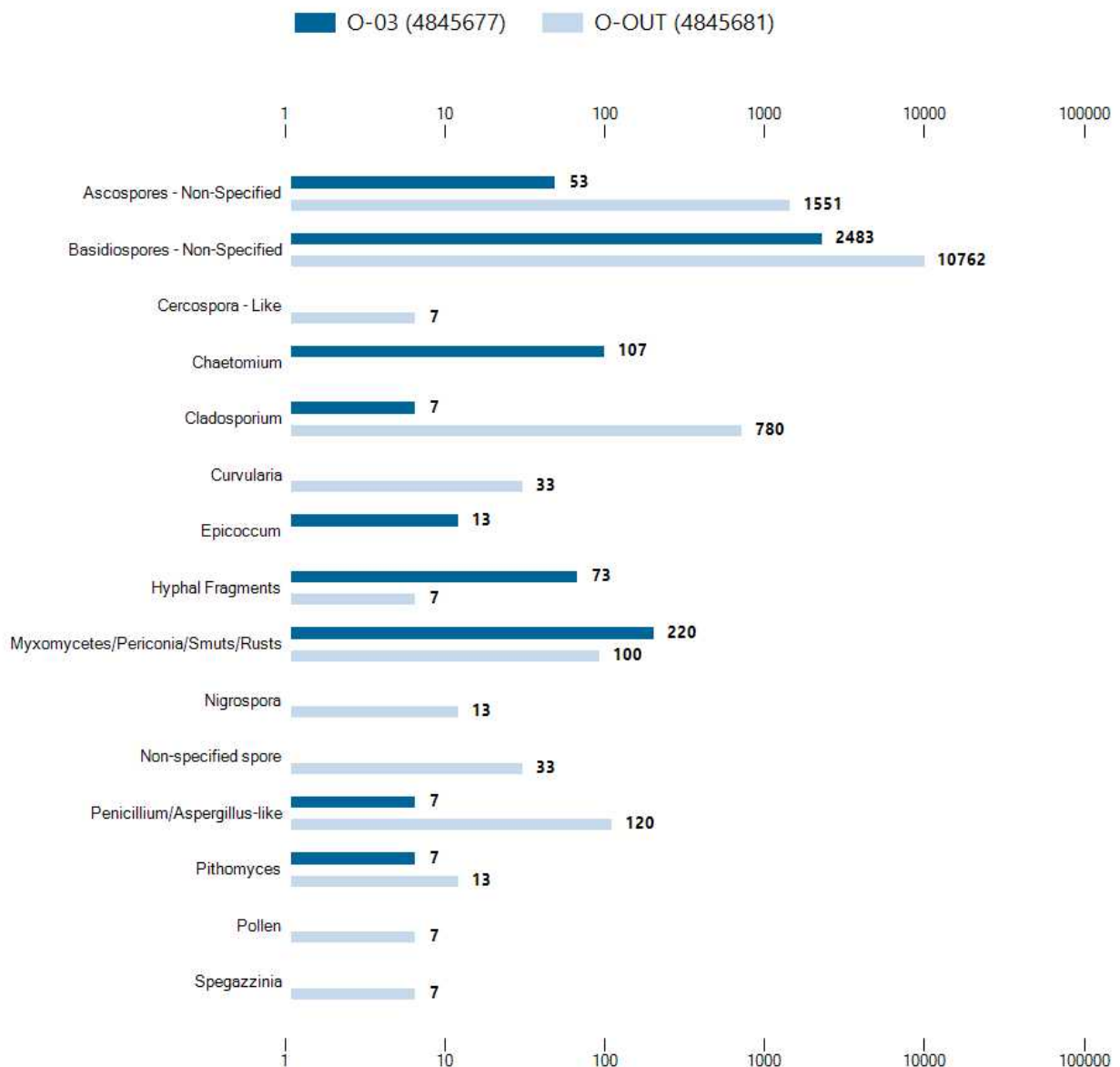
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Calculated spores per cubic meter





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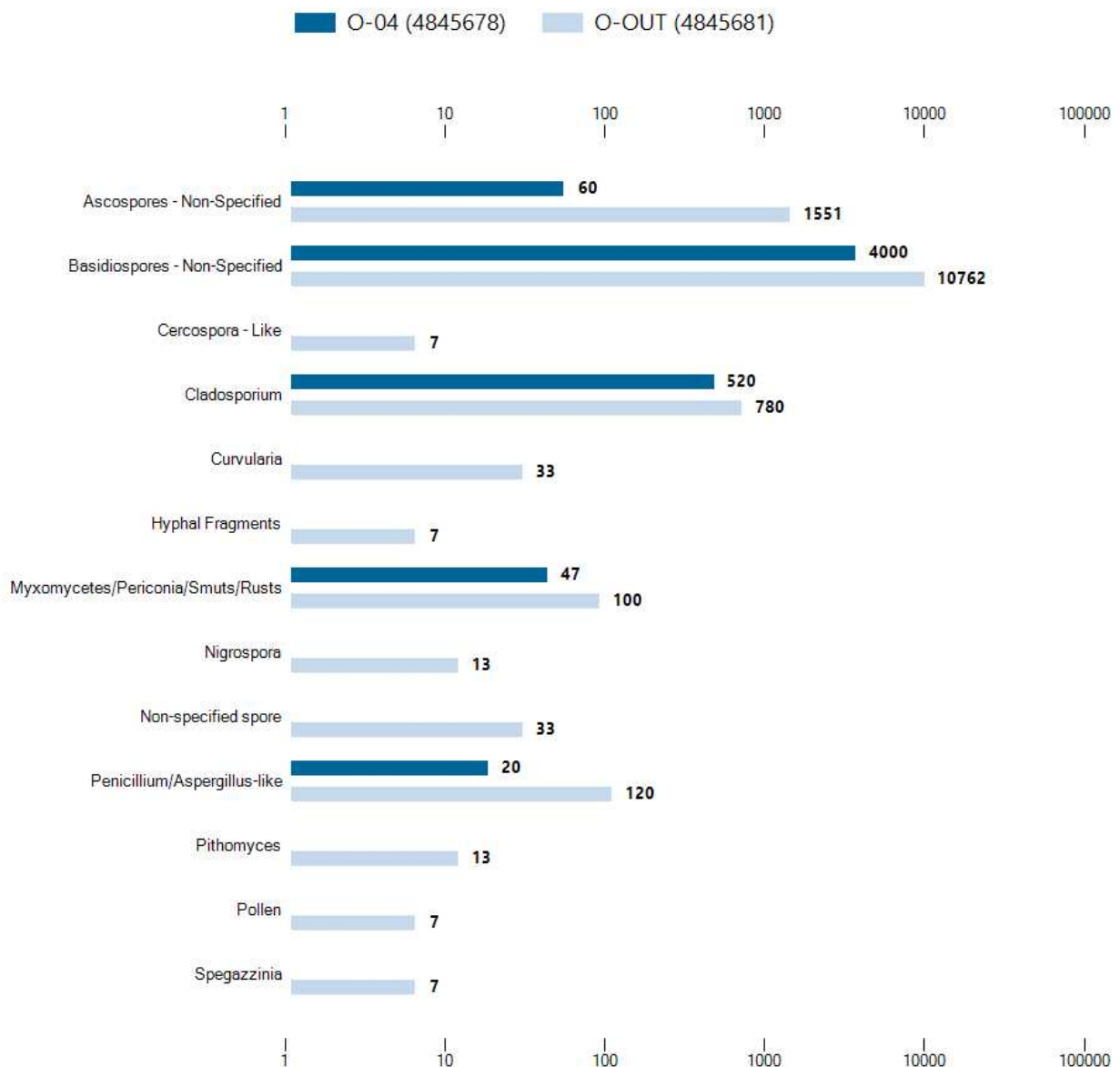
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Calculated spores per cubic meter





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By: Nonviable Direct Microscopy

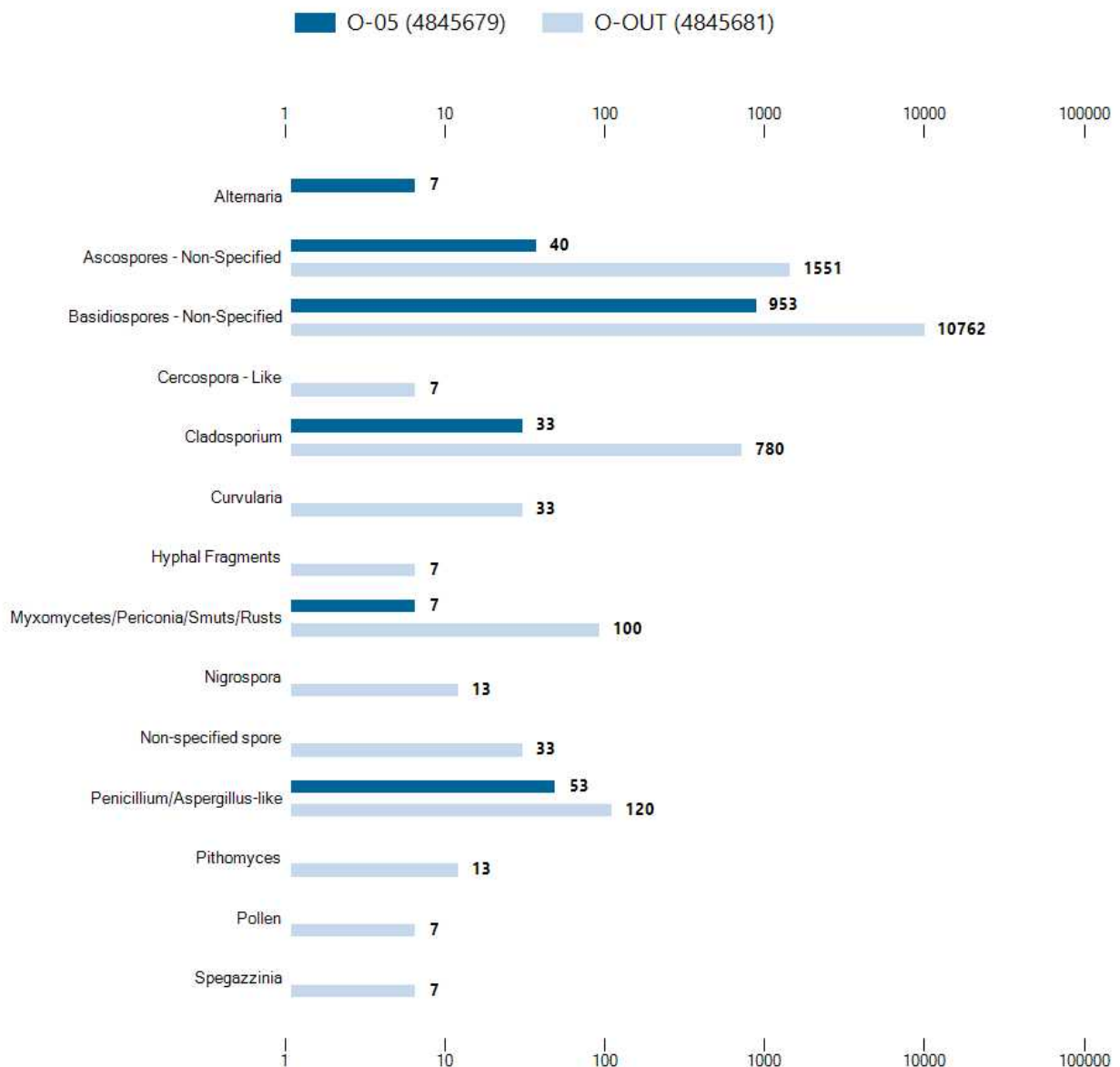
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Calculated spores per cubic meter





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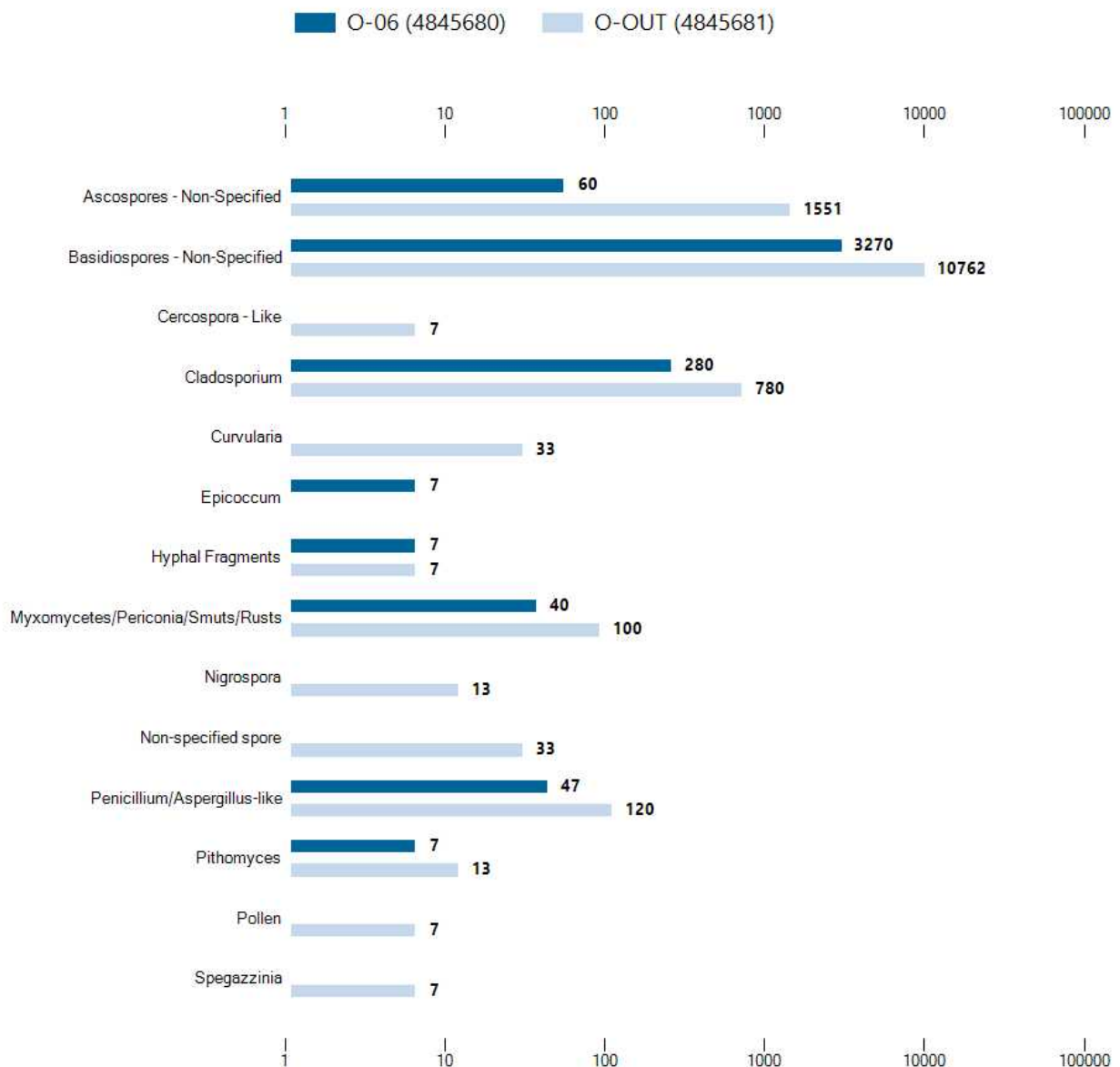
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Calculated spores per cubic meter



SPORE CLASSIFICATION:

For purposes of this report, identified mold spores are classified into three general categories depending on environmental conditions the spore is most commonly associated with:

- 1) PREDOMINANTLY OUTDOOR:** Most commonly found growing outdoors and are not usually associated with indoor mold sources.
- 2) INDOOR / OUTDOOR:** Commonly grow in both indoor and outdoor environments.
- 3) WATER INDICATOR:** Most commonly associated with indoor mold growth in buildings with long-term water intrusion issues.

**PREDOMINANTLY
OUTDOOR**

**INDOOR /
OUTDOOR**

**WATER
INDICATOR**

SPORE CLASSIFICATION:

Background debris is the amount of non-fungal particulates present in the trace including dust, fibers, skin scales, dust mites, and insect parts. A debris rating is assigned each trace from 0 (lowest) to 5 (highest). A higher debris rating means samples are more difficult to analyze, and spores, especially smaller spores like *Aspergillus* / *Penicilium*, may be obscured. Counts with debris ratings of 4 or 5 should be regarded as minimal counts with actual counts assumed to be significantly higher. A further explanation of the debris rating is listed below:

- 0 - None Detected.** No debris observed.
- 1 - Trace.** Field of view obscured < 5 %.Counts unaffected.
- 2 - Light.** Field of view obscured 5 % to 25 %.Counts slightly affected.
- 3 - Moderate.** Field of view obscured 25 % to 75 % .Actual counts may be higher than reported counts.
- 4 - Heavy.** Field of view obscured 75 % to 90 % .Actual counts may be significantly higher than reported counts.
- 5 - Very Heavy.** Field of view obscured > 90 % .Actual counts may be significantly higher than reported counts. Resampling may be necessary.

DEFINITION OF TERMS:

Analytical Sensitivity: Spore per cubic meter (concentration) divided by raw count.

Limit of Detection: One Spore

Hyphal Fragments: Hyphal fragments are broken pieces of fungal hyphae and constitute the vegetative structure of the fungus.

Pollen Count: Pollen grains(Pollen) are the male reproductive structures of Angiosperm plants. These are counted only as pollen and not classified to Genus level.

Raw Counts: The number of spores counted by the analyst.

% Analyzed: The amount of the trace that was analyzed for each individual spore type.If large amounts of any spore type(s) exist, counts may be extrapolated.

% of Total: Percentage of the sample that is made up of each spore type.

INDOOR AND OUTDOOR COMPARISONS:

There are no current Federal standards regarding permissible levels of airborne fungi that may be present in buildings. Mold spores are ubiquitous to our planet and it is expected that some spores will be present in normal indoor environments.A general guideline that is widely accepted in the industrial hygiene industry is that the types and numbers of mold spores present in the indoor environment should be similar to those present in the outdoor environment.If inside spore counts are significantly higher than outside counts this may indicate a potential mold problem.The comparison of outdoor and indoor spore types and concentrations is a useful tool in assessing abnormal mold contamination; however, it should not be the sole determining factor in evaluating health risks and remediation strategies.

	SPORE NAME	COMMON HABITAT	ALLERGENIC POTENTIAL	MYCOTOXIN POTENTIAL
Predominantly Outdoor	Alternaria	Soil, seeds, plants, carpet, textiles, window frames, air	X	X
	Arthrinium	Soil, plant materials, decaying wood	X	
	Ascospores - Non-Specified	Plants, soil, cellulose-containing materials, air		
	Basidiospores - Non-Specified	Soil, plants, wood, cellulose-containing materials, air		
	Bipolaris/Drechslera - Like	Grasses, plant material, decaying food, soil		
	Cercospora - Like	Plants		
	Curvularia	Soil, plant materials, cellulose-containing materials	X	
	Epicoccum	Plants, soil, seeds, carpet, air	X	
	Helicomyces*	Plants		
	Nigrospora	Plants, soil		
	Peronospora	Plants		
	Myxomycetes/Periconia/Smuts /Rusts	Plants, air	X	
	Pithomyces	Soil, plant material, air		
	Spegazzinia	Soil, plants		
	Stemphylium	Dead plants, cellulose-containing materials		
	Tetraploa	Plants		
	Torula	Soil, plants		
	Non-specified spore	Various		
Indoor/ Outdoor	Aspergillus/Penicillium - Like	Soil, food, carpet, HVAC, air	X	X
	Cladosporium	Plants, woody plants, food, soil, paint, textiles, carpet, HVAC, air	X	
	Fusarium	Soil, plants, seed, fruits, grains		X
Water Indicator	Chaetomium	Cellulose-containing materials, soil, seeds, dung	X	X
	Stachybotrys	Paper, wallpaper, gypsum board	X	X
	Trichoderma - Like	Soil, decaying wood, plant material, cellulose-containing materials	X	X
	Ulocladium	Soil, grasses, wood, paper		

* Heliocomyces includes Helicosporium

METHOD: CEI Method 110

All samples received in acceptable condition. Information provided by customer includes customer sample ID, location and volume. Analytical results are not corrected for field and laboratory blanks.

Eurofins Built Environment Testing East, LLC bears no responsibility for client sampling methods and makes no warranty representation regarding the accuracy of client-supplied information in preparing and presenting analytical results. Eurofins Built Environment Testing East, LLC maintains liability limited to the cost of analysis, except for Eurofins Built Environment Testing East, LLC's own willful misconduct or gross negligence. Interpretation of the analytical results is the sole responsibility of the customer. Test results relate only to the items tested and cannot be extrapolated to anything larger than their original intent. This report may not be reproduced, except in full, without written approval by Eurofins Built Environment Testing East, LLC.

The overall intralaboratory relative standard deviation (Sr) for the lab = 0.2.

Spore count range	10-100	101-350	>350
Intralaboratory Sr	0.25	0.2	0.1



Patrick Mooney
Analyst

DATA QA:



Eva Leslie
9/24/2026

APPROVED BY:



Kamila Reichert,
Laboratory Director



Built Environment Testing

RES Job #: 788385

SUBMITTED BY	INVOICE TO	CONTACT INFORMATION	SERIES
Company: Karl & Associates	Company: Karl & Associates	Contact: Angela Meas	-1 Micro Priority 48
Address: 20 Lauck Road	Address: 20 Lauck Road	Phone: (610) 856-7700	
Mohnton, PA 19540	Mohnton, PA 19540	Fax:	
		Cell: (484) 345-9846	
Project Number and/or P.O. #: 26-0843-O	Project Zip Code:	Final Data Deliverable Email Address:	
Project Description/Location: Montgomery BOE Orchard School		ameas@karlenv.com (+ 8 ADDNL. CONTACTS)	

ASBESTOS LABORATORY					REQUESTED ANALYSIS							VALID MATRIX CODES				LAB NOTES									
PLM / PCM / TEM / NYS DTL RUSH PRIORITY STANDARD					PLM	TEM	PCM	NYS	DUST	METALS	ORGANICS	VIABLES	MEDICAL	MOLD - Spore Trap Analysis (ASTM D7391-20)	Air = A		Bulk = B								
															Dust = D		Food = F								
CHEMISTRY LABORATORY															Paint = P		Soil = S								
Dust RUSH PRIORITY STANDARD															Surface = SU		Swab = SW								
Metals RUSH PRIORITY STANDARD															Tape = T		Wipe = W								
															Drinking Water = DW										
															Waste Water = WW										
Organics* SAME DAY RUSH PRIORITY STANDARD															**ASTM E1792 approved wipe media only**										
MICROBIOLOGY LABORATORY																									
Viable Analysis** PRIORITY STANDARD																									
Medical Device Analysis RUSH STANDARD									Sample Volume (L) / Area	Sample Temperature (°C)	Length (or Aliquots) x Width (or Area) (Aliquot)	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions									
Mold Analysis RUSH PRIORITY STANDARD																									
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.																									
Special Instructions:																									
Client Sample ID Number (Sample ID's must be unique)					ASBESTOS	CHEMISTRY	MICROBIOLOGY	ICO																	
1 O-01																	X		150L		A				
2 O-02																	X		150L		A				
3 O-03																	X		150L		A				
4 O-04																	X		150L		A				
5 O-05																	X		150L		A				
6 O-06									X		150L		A												
7 O-OUT									X		150L		A												

Eurofins Built Environment Testing East, LLC establishes a unique Lab Sample ID, for each sample, by preceding each unique Client Sample ID with the laboratory RES Job Number.

Eurofins Built Environment Testing East, LLC will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET30. Failure to comply with payment terms may result in a 18% APR finance charge.

Relinquished By:	Date/Time: 09/22/2026 13:36:25	Sample Condition: Acceptable
Received By: 	Olivia Zlotnicki	Date/Time: 09/22/2026 13:49:34
		Carrier: Fed-Ex

Karl & Associates
Sample Locations

RES #: 788385
Project Number and/or P.O. #: 26-0843-O
Project Description/Location: Montgomery BOE Orchard School

Client Sample ID	Sample Location
O-01	CST Room 65
O-02	CST Suite - ambient
O-03	Room 77
O-04	Room 75
O-05	Room 138
O-06	Room 109
O-OUT	Outside

Phone: (610) 856- 7700

Fax: (610) 856-5040

KARL ENVIRONMENTAL GROUP

Chain of Custody—Mold Spore Analysis

788 385 (7)

20 Lauck Road
Mohnton, PA 19540

Karl/K&A Job # :	26-0843-0	Project Location :	Orchard School
Date of Sample :	9/21/26	Project Manager :	Angela Meas
Project Client :	Montgomery BOE	Email :	ameas@karlenu.com

Turn-Around Time

☐ 4 Hour
 ☐ 8 Hour
 ☐ 24 Hour
 ☒ 48 Hour
 ☐ 3-5 Days
 ☐ 7-14 Days
 ☐ Other _____

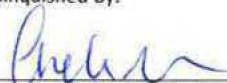
SAMPLE IDENTIFICATION NUMBER	DATE	Sample Location / Description	Sample Volume	Analysis	Air	Tape Lift	Swab
O-01	9/21/26	CST Room 65	150L	mold spore	X		
O-02	9/21/26	CST Site - ambient	150L	mold spore	X		
O-03	9/21/26	Room 77	150L	mold spore	X		
O-04	9/21/26	Room 75	150L	mold spore	X		
O-05	9/21/26	Room 138	150L	mold spore	X		
O-06	9/21/26	Room 129	150L	mold spore	X		
O-OUT	9/21/26	Outside	150L	mold spore	X		

EUROFINS CET INC

9/21/2026, 10:30

BUB

Lab: Eurofins CET

Relinquished By:	Date/Time:	Notes:
	9/21/26	
Received by:	Date/Time:	
BUB	9/22/26 10:30	