MOBILE COUNTY ENGINEERING DEPARTMENT

QC/QA REVIEW 2025

QC/QA REQUIRED FORMS

Wearing Surface Example

MOBILE COUNTY ENGINEERING DEPARTMENT QC/QA LOT COVER SHEET (WEARING)

PRO	OJECT No.:		PROJECT NAME:		
ENG	INEERING:		CONTRACTOR:		'ER & SONS, IC.
LOT	NUMBER:	1 DAT	E OF PLACEMENT:	5/6/2024	- 5/9/2024
	ITEM	COMPLETED BY	COMPLETED AT	ENGINEERS OFFICE (1)	MOBILE COUNTY (√)
(COVER SHEET	ENGINEER	OFFICE	√	/_
	MIX DESIGN	TESTING LAB	TESTING LAB		~
4 DDI	MC-LS-1 & 2	INSPECTOR	PROJECT	√	_
	NG MACHING TAPE (copies only)	ENGINEER	OFFICE	√	/
ASI	PHALT TICKETS (copies only)	ENGINEER	OFFICE		/
	BMT-4	INSPECTOR	PROJECT		
	BMT-19	ENGINEER	OFFICE		V
	BMT-20	CONTRACTOR	PLANT		
1	BMT-20	TESTING LAB	PLANT	√	V
1	MC-CDW	TESTING LAB	PLANT		NA
	QC/QA-1	ENGINEER	OFFICE		_
	QC/QA-3	ENGINEER	OFFICE		
Curre	ent				

See Current Cover Sheets



H. O. Weaver & Sons, Inc.



P.O. Box 8039 • Mobile, Alabama 36689-0039 (251) 342-3025 • Fax (251) 342-0108

April 11, 2024

RE: MCR

Request to Waive Core Densities

Dear Sir:

We are requesting that the core densities be waived for all asphalt mixes for this project. We have used these mixes on several projects in the past, and they have performed very well.

Should you have any questions please do not hesitate to call.

Sincerely,

Wilson Beard

Quality Control Superintendent







April 11, 2024

Mr. Johnny Harper, P.E. Mobile County Engineering Department Mobile Government Plaza 6th Floor South Tower 205 Government Street Mobile, Alabama 36644

RE: MOBILE COUNTY PROJECT MAY DENSITY WAIVER

Dear Mr. Harper,

H. O. Weaver & Sons, Inc. (Contractor) requested that densities be waived for the above referenced project. It is recommended that this be approved to mitigate potential failure to aged infrastructure that is located under the proposed street that is being resurfaced.

If you have any questions or require additional information or need, please call me Sincerely,

Project Manager



H. O. Weaver & Sons, Inc.



P.O. Box 8039 • Mobile, Alabama 36689-0039 (251) 342-3025 • Fax (251) 342-0108

April 11, 2024

Mr.	
-----	--

RE:

MCR

Delivery Temperature Letter

Dear Sir,

Please find the attached Asphalt Job Mix Formulas to be used on the above referenced project:

Pay Item	Description	Delivery Temperature
424-A1	1/2" Superpave Wearing Surface Layer, ESAL A/B	250° to 350°F
424-A2	1/2" Superpave Binder Layer, Patching ESAL A/B	250° to 350°F

The above mixes are to be manufactured by H. O. Weaver & Sons, Inc., Plant #1, Mobile, Alabama.

Should you have any questions please do not hesitate to call.

Sincerely,

Wilson Beard

Quality Control Superintendent

William I. Pape, In Pape Testing Services 4/11/24









Alabama Department of Transportation **Materials Testing Report**

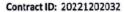
Sample Card No: 1068082

Sample Type: Job Control

Approval Date: 09/20/2023

Addendum-1

John R. Cooper **Transportation Director**



Project No: 99-609-022-042-201, RP-NH-HSIP-0042(534)

Prime Contractor: H. O. WEAVER & SONS, INC.

Inspection Analysis of: SUPERPAVE, WEARING Material Code: 424.02_001

Producer/Supplier:

Sampled From: STOCKPILE

Intended Use: SURFACE/U.BINDER/L.BINDER/BASE/PLW

MCR

Gyratory Compactor (HMA4302D)

Lab Reference Number

GH-0031-23

Contractor's Address: H.O. WEAVER & SONS, INC.

P.O. BOX 8039

MOBILE, AL 36689

Section: 424 A/B, C/D

Max. Size Aggregate: 1/2"

Metric Aggregate Size: 12.5MM

Date Expires: 09/20/2025

Date: 02/07/2023

Producer: H.O. WEAVER & SONS, INC.

Plant: CUT-OFF RD/THEODORE/ATMOR

Region/Area: Mobile

County: BALDWIN Project Manager: Miller, Dakota - 15742

Date Sampled: 02/07/2023

Qty Represented: UNK

Date Tested: 09/20/2023

Sampled By: Vinson, Jackie - 11097

Intended Use: **

Binder Grade: PG 67-22 HUNT

Specific Gravity of AC: 1.038

AL .
. 26
L 26

lob Mix		_	Other Informations			Note:
5	leves	% Passi g	% AC Required	5.50*		
1 1/2"	(37.5 mm)	_	AC Reqd/Ton, lbs/MT, kg	110.0	55.0	
1"	(25.0 mm)		Max. Sp. Gr. Mix	2.485		*4.50% PG 67-22
3/4"	(19.0 mm)		Wt., lbs/Mass, kg/m ³	148.3	2375.	must be added to the mix. The remaining 1.00% comes from the RAP.
1/2"	(12.5 mm)	100	TSR	0.95		comes from RAS.
3/8"	(9.5 mm)	93	Anti-Strip	0.50		
#4	(4.75 mm)	68	AD 7700)		#Gyrations: 60 %Gmm: 95.9
48	(2.36 mm)	***52	Effective AC	5.04		
#16	(1.18 mm)	***39	Dust/Asphalt Ratio	0.99		Additional Notes:
#30	(600 µm)	***30	Coarse Agg. Angularity	96/91		MIXING TEMP 325*F GH-0031-23 **SURFACE/UPPER BINDER/LOWER
#50	(300 µm)	14	Fine Agg. Angularity	45		BINDER/BASE/PATCHING, LEVELING, WIDENING
#100	(150 µm)	7	Agg Bulk SG	2.672		
#200	(75 µm)	5.0	% VMA	15.5		***(CHANGE MADE AT REQUEST OF CONTR. EFF 9/20/23)

Hot-Mix Asphalt Engineer:

Materials Engineer Approval:

Pay Items: 424-A1, 424-A2

Pay Items: 424A360,424A369

Standard Remarks: This material has been tested in accordance with ALDOT specifications.

Approved By: Hale, William - 17266

Testing Engineer

MOBILE COUNTY ENGINEERING DEPARTMENT

Tack & Prime Summary Sheet

Revision #3

1-18-14

ITEM #: 405-A

DESCR: Tack Coat, Fourth St

Max Rate Allowed 0.12

MIX:

NTSS-1HM

GAL. IN	GAL. OUT	GAL. USED	TEMP (F)	CONVERSION	GAL. (60F)	DATE
1450	1065	385	170	0.9725	374.413	5/6/2024
1035	720	315	170	0.9725	306.338	5/7/2024
1500	985	515	170	0.9725	500.838	5/8/2024
985	935	50	170	0.9725	48.625	5/9/2024
						-
				····		

(GAL/SY) X (SY)

, , ,			
PAYABLE	TO DATE PAYABLE	SQYD	RATE
374.41 -	374.41	4264.02	0.09
306.34 🐔	680.75	3899.77 *	0.08
500.84 *	1181.59	6563.73	0.08
48.63	1230.22	430.65	0.11

Amount Placed 1230.21

Gal

Amount Payable

1230.22 🕢 Gal

Example Tack 3-2-2012

Gallons @ (60f)

(1-((Temp-60) x 0.00025)) x Gal (1-((150-60) x 0.00025)) x 350 (1-((90) x 0.00025)) x 350

(1- ((90 x 0.00025)) x 350 (1- 0.0225) x 350

0.9775 x 350 = 342.12 Gal @ (60f)

Rate

Gal @ (60f)/SQ.YD. 342.12/3411.22 = 0.10 Gal/SQ.YD.

Gallons Payable @ 0.12 Rate

SQ.YD x 0.12

3411.22 x 0.12 = 272.89 Gal

The specified rate of tack placement is 0.06 to 0.12, any rate over 0.12 will be reduced and paid at the max rate of 0.12 NTSS-1HM is an Anionic Emulsified Asphalt placed at the rate range (0.06-0.12) gall/sy

MC-LS-1 REVISED 9-9-11

 ITEM #:
 424-A1
 CONTRACTOR:
 H. O. WEAVER & SONS, INC.
 TACK IN:
 1450
 TEMP:

 DATE:
 5/6/2024
 DESCRIPTION:
 Wearing
 TACK OUT:
 1065
 170

Load #	WIDTH	STA	STA	SQ. YD	SQ. YD DAY	5000 SQYD	TICKET#	TRUCK#	TONS	TONS DAY	TONS DATE	YIELD	YIELD DAY	5000 SY RATE
1	12.5	0 + 18	2 + 13	270.83	270.83		1580736	DTC04	25.68	25.68				
RA	DIUS 1	0 + 18		11.25	282.08							182.08	182.08	
2	12.5	2 + 13	4 + 30	301.39	583.47		1580738	DTC01	25.19	50.87		167.16	174.37	
3	12.5	4 + 30	6 + 30	277.78	861.25		1580734	DTC03	25.10	75.97		180.72	176.42	
4	12.5	6 + 30	8 + 60	319.44	1180.69		1580740	TR-01	25.00	100.97		156.52	171.04	
5	12.5	8 + 60	10 + 60	277.78	1458.47		1580741	TR-03	25.04	126.01		180.29	172.80	
6	12.5	10 + 60	12 + 60	277.78	1736.25		1580742	RS-01	25.10	151.11		180.72	174.06	
7	12.5	12 + 60	13 + 10	69.44	1805.69		1580743	RS-02	25.17	176.28				
	12.5	3 + 00	4 + 15	159.72	1965.41							219.67	179.38	
8	12.5	4 + 15	6 + 45	319.44	2284.85		1580758	DTC04	26.08	202.36		163.29	177.13	
9	12.5	6 + 45	8 + 65	305.56	2590.41		1580760	1765	25.04	227.40	, ×	163.90	175.57	
10	12.5	8 + 65	10 + 95	319.44	2909.85		1580763	DTC01	26.19	253.59	78	163.97	174.30	
11	12.5	10 + 95	13 + 10	298.61	3208.46		1580762	TR-01	25.05	278.64		167.78	173.69	
12	12.5	5 + 50	7 + 70	305.56	3514.02		1580764	TR-03	25.16	303.80		164.68	172.91	
13	12.5	7 + 70	10 + 00	319.44	3833.46		1580769	RS-01	24.99	328.79		156.46	171.54	
14	12.5	10 + 00	12 + 20	305.56	4139.02		1580770	RS-02	25.34	354.13		165.86	171.12	
15	12.5	12 + 20	13 + 10	125.00	4264.02 -	4264.02	1580771	DTC03	25.62	379.75	379.75	409.92	178.12	178.12 🗸

	Job	Subject	· Radius Drawings	Sheet No of
	Designed By	Date	-	
N 4th St Radius #1; 0+18 LT				May 6
T., X	Total=1		= [11.25sy] V	
r_2 r_2 r_3 r_3	2.8'	4' 	I . 2 针 ² T ₁ = 1/2 b	h = 0.5(2.8)(2.5)
12.5' 28' T1 = 3.5 F42		4'		= 3.5 ft ²
2,5'	7.9'	R ₂ =3	1.67+2 R ₁ = L	× W = 4(2.8) = 11.2 ft ²
5.1 T2 = 10.2	7.			
6.3' T3=12.6	ftz			
41	14.2	R3=28.4	ft ²	
2' 3.8' Ty = 3.8 ft 2				
One	of FORTUNE's 10) Best Compan	ies to Work For	

MCR RESURFACING

424-A1 1/2" Mix Wearing, Fourth St

Adding Machine Tape Totalling Asphalt Used

	1		Cum tons			
<u>Date</u>	Load	Tons	per day		Lbs	Cum Ibs
5/6/2024	1	25.10	25.10		50200	50200
5/6/2024	2	25.68	50.78		51360	101560
5/6/2024	3	25.19	75.97		50380	151940
5/6/2024	4	25.00	100.97		50000	201940
5/6/2024	5	25.04	126.01		50080	252020
5/6/2024	6	25.10	151.11		50200	302220
5/6/2024	7	25.17	176.28		50340	352560
5/6/2024	8	26.08	202.36		52160	404720
5/6/2024	9	25.04	227.40		50080	454800
5/6/2024	10	25.05	252.45		50100	504900
5/6/2024	11	26.19	278.64		52380	557280
5/6/2024	12	25.16	303.80		50320	607600
5/6/2024	13	24.99	328.79	1	49980	657580
5/6/2024	14	25.34	354.13	/	50680	708260
5/6/2024	15	25.62	379.75	V	51240	759500

1 warm stort

> WARNING: Hot Mix Asphalt Material may cause burns. Material may release toxic Hydrogen Sulfide (H2S) Gas. Prolonged or repeated skin contact may be harmful. See Hot Mix Asphalt MSDS for additional information.

1580736

Ticket: 1580736 Date: 5/6/2024 Time: 9:23:32 AM

Job#: 2239

MCR-

H. O. Weaver & Sons Inc. 1920 Cuttoff Rd. Mobile AL. 36601 251-452-1006

> Truck: DTCM4

Material: 424-91

Job Totals: 50.78 Tons

************* *GROSS *TARE *NET

14.73 Tons 29460 165. 25.68 Tons 51360 lbs. ****************

40.41 Tons

Designments:

Psyment for the goods and services shown above a die no later than thirty (30) days following this date. By acceptance of these goods and part approves Purchaser agrees to pay interest at the rate of 18% per annum, (1½% per month), together with all costs of collection including a reasonable attorney's fee if payment is not paid to H.O. Weaver & Sons, Inc., when due.

PUBLIC No. 625819

William William

10:30

290 °F

3 Axels

LDADS:

10:25

300 °F

3 Axels

LOADS:

80820 lbs.

Truch 2 5/6/24

WARNING: Hot Mix Asphalt Material may cause burns. Material may release toxic Hydrogen Sulfide (H2S) Gas. Prolonged or repeated skin contact may be harmful. See Hot Mix Asphalt MSDS for additional information.

T 3397 1580738

H.O. Weaver & Sons Inc. 1920 Cuttoff Rd. Mobile AL. 36601 251-452-1006

Ticket: 1580738 Date: 5/6/2024 Time: 9:29:38 AM

Job#: 2239

MCR-

DTC@1 Trucka

Material: 424-A1

Job Totals: 75.97 Tons

食衣食食食食食食食食食食食食食食食食食食食食食食食食食食食食食食食食食食 *GROSS 39,68 Tons

*TARE 14.49 Tons 28980

50380 lbs. 25, 19 Tons

THIRINING SHAPE

MARRIENCES

PUBLIC

No. 625819

Weighmaster: OF ALAmin Comments:
Payment for the poods and services shown about the no later than thirty (30) days following this date. By acceptance of these goods and services Purchaser agrees to pay interest at the rate of 18% per annum, (11/2% per month), together with all costs of collection including a reasonable attorney's fee if payment is not paid to H.O. Weaver & Sons. Inc., when due.

Signed:

Truch 3

<u>WARNING</u>: Hot Mix Asphalt Material may cause burns. Material may release toxic Hydrogen Sulfide (H2S) Gas. Prolonged or repeated skin contact may be harmful. See Hot Mix Asphalt MSDS for additional information.

H.O. Weaver & Sons Inc. 1920 Cuttoff Rd. Mobile AL. 36601 251-452-1006

Ticket: 1580734 Date: 5/6/2024 Time: 9:17:35 AM

Job#: 2239

MCR-

Truck: DTCØ3 LOADS:

Material:

424-A1

25. 10 Tons Job Totals:

*************** *GR055 40.19 Tons

*TARE

15.09 Tons

30180 lbs.

*NFT

25, 10 Tons

Comments:

Payment for the goods and services flymnature is due no later than thirty (30) days following this date. By acceptance of these goods and services Purchaser agrees to pay interest at the rate of 18% per annum, (11/2% per month), together with all costs of collection including a reasonable attorney's fee if payment is not paid to H.O. Weaver & Sons, Inc., when due.

PUBLIC

No. 623352

Signed:

Truch 4

Tong 2 357F WARNING: Hot Mix Asphalt Material may cause burns. Material may release toxic Hydrogen Sulfide (H2S)
Gas. Prolonged or repeated skin contact may be harmful. See Hot Mix Asphalt MSDS for additional information.

1580740

H. U. Weaver & Sons Inc. 1920 Cuttoff Rd. 36601 Mobile AL. 251-452-1006

Ticket:1580740 Date: 5/6/2024 Time: 9:33:21 AM

Job#: 2239

TR-01 Truck:

LOADS:

Material:

424-01

Job Totals: 100.97 Tons

MCR-

********************************* 79680 1bs. GROSS 1bs. 14.84 Tons

25.00 Tons

50000 1bs.

PUBLIC **

PUBLIC **

No. 625819 **

Fayment for the goods and services shown shove Bue no later than thirty (30) days following this date. By acceptance of these goods and services Purplaser agrees to pay interest at the rate of 18% per annum, (1½% per month), together with all costs of collection including a reasonable attorney's fee if payment is not paid to H.O. Weaver & Sons, Inc., when due.

Signed:

1: 3657 - (ruch 5

WARNING: Hot Mix Asphalt Material may cause burns. Material may release toxic Hydrogen Sulfide (H2S) Gas. Prolonged or repeated skin contact may be harmful. See Hot Mix Asphalt MSDS for additional information.

1580741

H.O. Weaver & Sons Inc. 1920 Cuttoff Rd. Mobile AL. 36601

Ticket: 1580741 Date: 5/6/2024

Time: 9:37:00 AM

Job#: 2239

MCR-

251-452-1006

Truck: TR-03

Material:

424-A1

Job Totals: 126.01 Tons

*************** *BRDSS 39,55 Tons 79100

*TARE

14.51 Tons 29020 1bs.

25. 24 Tons 50080 lbs.

Weighmester: Comments:

Payment for the goods and services shown above to due no later than thirty (30) days following this date. By acceptance of these goods and services Purchaser agrees to pay interest at the rate of 18% per annum, (11/2% per month), together with all costs of collection including a reasonable attorney's fee if payment is not paid to H.O. Weaver & Sons, Inc., when due.

PUBLIC

No. 625819

Truch 6 7=365 F

WARNING: Hot Mix Asphalt Material may cause burns. Material may release toxic Hydrogen Sulfide (H2S) Gas. Prolonged or repeated skin contact may be harmful. See Hot Mix Asphalt MSDS for additional information.

1580742

H.O. Weaver & Sons Inc. 1920 Cuttoff Rd. 36601 Mobile AL. 251-452-1006

Ticket: 1580742 Date: 5/6/2024 Time: 9:49:21 AM

Job#: 2239

Trucks

RS-211

LOADS:

LOADS:

Material:

424-A1

Job Totals: 151.11 Tons

39.97 Tons *GROSS 14.87 Tons *TARE

29740 165.

79940 1bs.

50200 lbs. 25. 10 Tons

Comments:

Weighmas due no later than thirty (30) days follow-Payment for the goods Payment for the goods and services shown above is due no later than thirty (30) days following this date. By acceptance of these goods and services Purchaser agrees to pay interest at the rate of 18% per annum (1)/2% per monthly together with all costs of collection including a reasonable attorney's fee if payment is had paid to H.O. Weaver & Sons, Inc., when due.

14

PUBLIC No. 625819

Sheet No. 4 of 4 Subject Radius Orawings Job No. MCR Designed By _ Checked By. N4th St (NOT IN PACKET)

JUST AN EXAMPLE May 8 Radius # 6: 26+912T Total = 38.6 ft2 = 4.29 sy R,=11.45+2 41 T2=5.6912 2.8' R2=11.25+2 28 41 T3 = 3.6 ft 2 R3=4.8f42 1.2 1.8' 3.0' R2 2.8' 3.0'1.2' 4'

One of FORTUNE's 100 Best Companies to Work For

15

MOBILE COUNTY PUBLIC WORKS ENGINEERING DEPARTMENT

RESURFACING PROJECTS ONLY PLANT MIX DAILY PLACEMENT REPORT

	6/2024				(A <u></u>							
Project No.	MCR				Project Name							
Contractor	н. о.	WEAVER &	SONS, INC.		Total Tons in Contract 1270							
Producer	н. о.	WEAVER &	SONS, INC.									
Weather Today Partly Cloudy					Low _	70	F	High8	8°F			
					Tack Coat							
Place Tod	lay:	STA	0 + 18		STA	13 + 10						
Length:		3067	ft \	Width:	12.5 ft	t	Area:	4264.02 🗸	sq.yds.			
Today:		374.41 🗸	gallons		Rate:	0.09	gallons	per sq.yds.				
	evious Repor				gallons				sq.yds.			
To Date:		374.41		gallons		42			sq.yds.			
					Plant Mix							
A 1 14 F	Placed Today	,	379.75 🗸	-	Tons		759500		lbs.			
					-		Delivery Temp: 371 °F Highest 300 °F Lowest					
				Tons	De	livery Temp:	371 °F High	nest 300	°F Lowest			
Previous	report:	C)									
Previous To Date:	report:	379.75	Tons			7:	59500		lbs.			
Previous To Date:	report:	379.75	Tons			7:	59500		lbs.			
Previous To Date:	report:	379.75	Tons			1/2"	59500 Lot No.:		lbs.			
Previous To Date:	report:	379.75	Tons		Mix No.: _	1/2"	59500 Lot No.:	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item	report:	379·75 v	Tons 424-A1 Yield Each	5000	Mix No.: _	1/2" mate) This Da	10t No.:	1	lbs.			
Previous To Date: Pay Item Yeild	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item Yeild	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item Yeild 1 2	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item Yeild 1 2 3 4 5	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item Yeild 1 2 3 4	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item Yeild 1 2 3 4 5 6 7	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item Yeild 1 2 3 4 5 6 7 8	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs.			
Previous To Date: Pay Item Yeild 1 2 3 4 5 6 7	Number:	379.75 ×	Tons 424-A1 Yield Each Length	1 5000 Width	Mix No.: _ S.Y. (Approxit	1/2" mate) This Da	Lot No.: ate	Rate (lbs/sqyd)	lbs. Required Rate			

Plan Rate	Actual Rate	Square Yards	No Leveling used put	15, If Leveling used put 10		
150.00	178.83	4264.02	10.00			
AS	SPHALT RATE COR	RECTIONS	50% Rate of Deduct	tion		
		1st Tier				
Actual Rate 178.83	Rate + Allowed lbs 160.00	Lbs./Sq.Yd. 28.83	Square Yards 4264.02	Total Lbs. 122931.70		
Tons (within range) 61.47	Tons Deducted 30.74					
		Total Deductions				

BMT-19

Mobile County Engineering Department

Worksheet Summary of Lot Test Results for Air Voids and AC Content

Project Nu	ımber	MCR. County Mobile						
Pay Item I	Pay Item Number <u>424-A1</u> Mix No. <u>1/2"</u>							
% AC	% AC Content Required 5.5 : % Air Volds Required 4 :							4 !
Lot No.	Lot No 1							
	AC Content Air Voids							
Testing Increm.	Contr.	County	Ref. St/Cont	Dev.	Contr.	County	Ref. St/Cont	Dev.
1	5.40 1			0.10	3.82*			0.18
2	5.52			0.02 ,	3.81			0.197
3								
4								
		<u> </u>	Average	0.06			Average	0.19
Pay Factor	monage one							

NOTES

¹⁾ if Pay Factor is determined on original verification tests, enter Pay Factor on QC/QA Form 1

²⁾ if Pay Factor is determind on referee tests, enter Pay Factor on QC/QA Form 2; if not resolved on referee tests, go to BMT Form 135 & AHD Procedure 380.

P	mi m	
Form		

Project Number :	
Project Name :	

MOBILE COUNTY PUBLIC WORKS ENGINEERING DEPARTMENT ASPHALT PLANT MIXTURE TEST REPORT

			CON	TRACI'OR TI	STING	х	7		
			DEPA	RTMENTAL 1	TESTING		_		
Pay Item No	o. 424-A1 er Hosea O.	Mix No. Weaver & S	. 1/2" Sons, Inc.	Lot No.	1		e(s) Sampled	05/06 thru 05/06 thru	
	Tons Produce			1347.38		TONS	residu	03/00 1111	00/07/24
			aver & Sons			Contractor:	— Н. О. We	aver & Sons	
						•••••			
				ANAL	YSIS				
Sample Number		1	2	3	4	5	6	MIXING	TEMPERATURE
Ton Sampled		304.58	1194.25					TRUCK #	LOADING TEMP F
Loading Temperature, F'		310°	315°						
Sieve	Job Mix								
	Gradation							RS-02	310°
27.5	(% Passing)		 				-	TR-01	315°
37.5 mm (1 1/2 inch)	 	-				<u> </u>			
25 mm (1 inch) 19mm (3/4 inch)		 	-			 	ļ		
12.5 mm (1/2 inch)	100	100	100			 	 	-	
9.5 mm (3/8 inch)	93	86	94			 	 		
4.75 mm (no. 4)	68	62	69			 	 	REMARKS:	
2.36 mm (no. 8)	52	48	53					Iddiningo.	
1.18 mm (no. 16)	39	39	41				1	†	And the second s
600 um (no. 30)	30	31	33				1	6-May-24	379.75
300 um (no. 50)	14	16	14				1	7-May-24	332.17
150 um (no. 100)	7	8	8					8-May-24	583.43
75 um (no. 200)	5.0	4.9	5.1		ARMAN AND AND AND AND AND AND AND AND AND A			9-May-24	52.03
Percent Asphalt Req'd.									
(Total Sample)	5.50%	5.50%	5.50%						
Percent Asphalt									
(Total Sample)		5.40%	5.52%						
Dust / Asphalt Ratio		1.02%	1.02%						
Rice Gravity		2.497	2.491					Total:	1347.38
AIR VOIDS		3.82%	3.81%				1		
VMA (%)		15.0%	15.3%						

Copies:

Division

Project Engineer

File

Citation 7 - - -

Form BMT-20

MOBILE COUNTY PUBLIC WORKS ENGINEERING DEPARTMENT ASPHALT PLANT MIXTURE TEST REPORT

Prime Cont	tractor H.O. We	aver & Sons	3	Paving	Contrac	tor	H.O. Weav	er & Sones	
Sample Nu	mber	1	2	3	4	5	6	P410-00-00-00-00-00-00-00-00-00-00-00-00-0	Temperature
Production	Ton Sampled	304.58	1194.25					Truck	Loading
Sieve	Job Mix Grad							Number	Temp. F
1.5"	(%Passing)	-	-			-		 	
1"		+	-						
3/4"		+						 	
1/2"	100	100	100						
3/8"	93	86	94					ļ	
4	68	62	69						
8	52	48	53						
16	39	39	41					L	
30	30	31	33					Samuel	
50	14	16	14					Remarks:	***************************************
100	7	8	8					EIGIOOO A	070.75
200	5.0	4.9	5.1				 	5/6/2024	379.75
ercent Asphal		1.0	0.1					5/8/2024	332.17 583.43
Req'd (Total Sa	imple)	5.50	5.50					5/9/2024	52.03
ercent Asphal	t								02.00
Total Sample)		5.40	5.52					-	
oust/Asphal	t Ratio	1.02	1.02						
Rice Gravity		2.497	2.491						
ir Voids (%)	3.82	3.81					*******************************	
'MA (%)		15.0	15.3						

Form QC/Q	A-1 Mol	oile Cou					
Revised 04 Project Nur	nber MCR	Summa	rv of Ac	County	Tonnage Mobile)	Division 9
	O. WEAVE	R & SONS, I	NC.	Contract Bi			
Pay Item Nu		1-A1		Mix Number	r	1/2"	
		Asphalt	Content	AirV	/oids	·	* Referee
Lot Number	Tonnage Placed	Number of Tests	Pay Factor	Number of Tests	Pay Factor	Pay Factor Cores	Test Needed
1	1347.38	2	1	2	1	N/A	NO

						444.4	
					WAR-200		

The Department to enter Yes or No, If No, enter pay factors on QC/QA-3. If Yes, indicate which characteristics, I.e, AC(asphalt content), AV(air voids) or MD(mat density). Example: Yes - AV. Where refree testing is required, use QC/QA-2

Form QC/Q/	A-3 Mok	ile Cou	nty Eng	ineering	Depai	rtment		1
Revised 04/	11	Summa	rv of Ad	iusted County	Tonnac	le		1
Project Num				County	Mobile		Division 9	
Contractor	MCR			Contract Bi		r ton)	9	1
	D. WEAVER	R & SONS, II	NC.	Contract Di	a i noc (po	127.54		
Pay Item Nu				Mix Number	•			1
The second secon	424	-A1				1/2"		9
Lot Number	(1) Tonnage Placed	(2) Pay Factor Asphalt Content	(3) Pay Factor Air Voids	(4) Pay Factor Cores	(5 Tonnage <i>i</i>		(6) Adjusted Tonnage	
1	1347.38	1	1	N/A	C)	1347.38	
					Rate R	eduction:	106.02	
								1
								1
								1
								1
								1
								-
								-
								\dashv
								1
						Total:	1241.36 Tons	~

(6) = (1) x ((2)* or (3)* or (4)*) (5) = (1) - (6)

*Apply Only The Lowest Numerical Pay Factor

BPA & HMA REQUIRED FORMS

BPA & HMA Example

MOBILE COUNTY ENGINEERING DEPARTMENT BPA & HMA Price Adjustments

PROJECT N	lo.: M	CR		PROJECT NAME:	RESU	RFACING
ENGINEERIN				CONTRACTOR:	H. O. WEA	VER & SONS,
LITOINELLINII						110.
LOT NUMBE	R:	1	DAT	E OF PLACEMENT:	5/3/2024	- 5/9/2024
ITE	<u>M</u>	COMPLETED	BY	COMPLETED AT	ENGINEERS OFFICE (1)	MOBILE COUNTY (√)
COVER	SHEET	ENGINEER	2	OFFICE		
MIX DE	SIGN	TESTING LA	AB	TESTING LAB		/
MC-B	CR	ENGINEER	2	OFFICE		/
MC-3	3-1	ENGINEER	₹	OFFICE		V
MC-3	3-2	ENGINEER	₹	OFFICE		
MC-26-1,	2, & 3	ENGINEER	?	OFFICE		
MC-27-1	1, & 2	ENGINEER	₹	OFFICE		1

See Current Cover Sheets



H. O. Weaver & Sons, Inc.



P.O. Box 8039 • Mobile, Alabama 36689-0039 (251) 342-3025 • Fax (251) 342-0108

April 11, 2024

Mr. Bill Pope

RE:

Delivery Temperature Letter

Dear Sir,

Please find the attached Asphalt Job Mix Formulas to be used on the above referenced project:

Pay Item	Description	Delivery Temperature
424-A1	½" Superpave Wearing Surface Layer, ESAL A/B	250° to 350°F
424-A2	1/2" Superpave Binder Layer, Patching ESAL A/B	250° to 350°F

The above mixes are to be manufactured by H. O. Weaver & Sons, Inc., Plant #1, Mobile, Alabama.

Should you have any questions please do not hesitate to call.

Sincerely,

Wilson Beard

Quality Control Superintendent

William I. Pape, In Pape Testing Services 4/11/24

AAPA







Alabama Department of Transportation Materials Testing Report

Addendum-1

Sample Card No: 1068082 Approval Date: 09/20/2023

MCR

Sample Type: Job Control

Transportation Director

Contract ID: 20221202032

Project No: 99-609-022-042-201,RP-NH-HSIP-0042(534)

Prime Contractor: H. O. WEAVER & SONS, INC.

Inspection Analysis of: SUPERPAVE, WEARING

Material Code: 424.02_001

Producer/Supplier:

Sampled From: STOCKPILE

Intended Use: SURFACE/U.BINDER/L.BINDER/BASE/PLW

Region/Area: Mobile County: BALDWIN

Project Manager: Miller, Dakota - 15742 Sampled By: Vinson, Jackie - 11097

Date Sampled: 02/07/2023 Date Tested: 09/20/2023 Qty Represented: UNK

Gyratory Compactor (HMA4302D)

Lab Reference Number

GH-0031-23

Contractor's Address: H.O. WEAVER & SONS, INC.

P.O. BOX 8039

MOBILE, AL 36689

Section: 424 A/B, C/D

Max. Size Aggregate: 1/2" Metric Aggregate Size: 12.5MM Date Expires: 09/20/2025

Date: 02/07/2023

Producer: H.O. WEAVER & SONS, INC.

Plant: CUT-OFF RD/THEODORE/ATMOR

Intended Use: **

Binder Grade: PG 67-22 HUNT

Specific Gravity of AC: 1.038

% (Approx)	Description	I.D.#	Source	BPN-9
15.	CRUSHED GRAVEL	1441-K	GLENN BRADFORD GRAVEL; JACKSON, AL	
11	FINE GRAVEL	1777	P&R MINING; ATMORE, AL	
23	SAND	1777	P&R MINING; ATMORE, AL	
22	LIMESTONE SCRN'S	0315	APAC-MAYLENE QUARRY; MAYLENE, AL	26
8	MOD. #78 LIMESTONE	0315	APAC-MAYLENE QUARRY; MAYLENE, AL	26
0.5	BAGHOUSE FINES		PLANT	
20	RAP		STOCKPILE #23-9-1	
		l		

Job Mix	;		Other information:			Note:
5	ieves	% Passing	% AC Required	5.50*		
1 1/2"	(37.5 mm)		AC Reqd/Ton, lbs/MT, kg	110.0	55.0	
1"	(25.0 mm)		Max. Sp. Gr. Mix	2.485		*4.50% PG 67-22
3/4"	(19.0 mm)		Wt., lbs/Mass, kg/m ³	148.3	2375.	must be added to the mix. The remaining 1.00% comes from the RAP.
1/2"	(12.5 mm)	100	TSR	0.95		comes from RAS.
3/8"	(9.5 mm)	93	Anti-Strip	0.50		
#4	(4.75 mm)	68	AD 7700			#Gyrations: 60 %Gmm: 95.9
#8	(2.36 mm)	***52	Effective AC	5.04		
#16	(1.18 mm)	***39	Dust/Asphalt Ratio	0.99		Additional Notes:
#30	(600 µm)	***30	Coarse Agg. Angularity	96/91		MIXING TEMP 325*F GH-0031-23 **SURFACE/UPPER BINDER/LOWER
#50	(300 µm)	14	Fine Agg. Angularity	45		BINDER/BASE/PATCHING, LEVELING, WIDENING
#100	(150 µm)	7	Agg Bulk SG	2.672		
#200	(75 µm)	5.0	% VMA	15.5		***(CHANGE MADE AT REQUEST OF CONTR. EFF 9/20/23)

Hot-Mix Asphalt Engineer:

Materials Engineer Approval:

Pay Items: 424-A1, 424-A2

Pay Items: 424A360,424A369

Standard Remarks: This material has been tested in accordance with ALDOT specifications.

Approved By: Hale, William - 17266

Testing Engineer

Page 1 of 1

BITUMINOUS CERTIFICATION REQUEST

PROJECT NUMBER:	MCR	STARTING DATE	May 3, 2024
DESCRIPTION:		ENDING DATE	May 20, 2024
PRIME CONTRACTOR:	H. O. WEAVER & SONS, INC.		
MATERIAL GRADE	PG 67-22	QUANTITY 142,	116.30 POUNDS
MATERIAL GRADE	NTSS-1HM	QUANTITY 11,1	31.34 POUNDS
BITUMINOUS MATERIAL USED OF DEPARTMENT OF TRANSPORTATION MATERIAL LISTED ABOVE.	Dakota F. Milly (print name) IN THE ABOVE MENTIONED PROJETION SPECIFICATIONS FOR THE TY	PE, GRADE AND QUANTITY (OF THE ALABAMA
	Authorized Office	cial	
	STATE OF ALABAMA, County of Sworn and subscribed to before day of Notary Pul	me this 20 24	STRINGFELLOWING CONTROLL OF ARY PUBLIC OF ALABAMINING THE PUBLIC OF AL

LIQUID ASPHALT CHECKS

PROJECT NO. MCR			MATERIAL GRADE: PG 67-22 USED FOR: ASPHALT PLACEMENT		
CONTRACTOR: COUNTY:	H. O. WEAVER & SONS, IN	C	_ USED FOR:_	ASPHALT	PLACEMENT
COUNTY	(LBS)		(TONS)	(LBS)	
PRODUCER NO.	MATERIAL DELIVERED	DATE	ASPHALT PLACED	ASPHALT REQ.	ASPHALT LAYER
		5/3/24	150.96 🐇	13,586.40	PATCHING
	90.0	5/6/24	379.75 4	34,177.50	WEARING
		5/7/24	75.55	6,799.50	PATCHING
		5/7/24	332.17	29,895.30	WEARING
		5/8/24	583.43	52,508.70	WEARING
		5/9/24	52.03	4,682.70	WEARING
		5/20/24	5.18	466.20	PATCHING
			 		
		-			

TOTAL			TOTAL	142,116.30	LBS ✓
	MUSTS	UBMIT	FORM MC-B	CR	

LIQUID TACK CHECKS

		RIAL GRADE:	NTSS-1HM	
CONTRACTOR: H. O. WEAVER & SONS, INC.		USED FOR:	TACK COAT	_
COUNTY: MOBILE				
(LBS)		(GALLONS @ 60		
PRODUCER NO. MATERIAL DELIVERED	DATE	TACK PLACE		_
	5/3/24	48.63 🖊	413.84	4
	5/6/24	374.41 €	3,186.23	4
	5/7/24	29.18	248.32	4
	5/7/24	306.34	2,606.95	4
	5/8/24	500.84 2	4,262.15	4
	5/9/24	48.63	413.84	4
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		TOTAL	4 404 04 1 00	1./
TOTAL		TOTAL 1	11,131.34 LBS	V
	To a little of the latest and the la			-
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MUST SUBMI	TEODRAN	AC BCB		1
INIOS I SUBINI	I FORW IV	IIO-DOK		
				-

ITEM I

ADVERTISEMENT FOR BIDS

Sealed bids will be received by the County Commission of Mobile County, Alabama, in the Mobile Government Plaza, Eighth Floor South Tower, Mobile, Alabama, until 10:00 A.M. on JANUARY 24, 2024, and then publicly opened for furnishing all labor and materials, and performing all work required by Mobile County and described as follows:

Project:

Project No.: MCR

THIRTY (30) working days are allowed for the construction of the project.

All bids must be on blank forms provided in the specifications and submitted in its entirety. A cashier's check drawn on an Alabama bank or a bidder's bond, payable to Mobile County, Alabama, for an amount not less than five percent (5%) of the amount bid, but in no event more than ten thousand dollars (\$10,000.00), shall be filed with the bid, as a bid guaranty. The bidder's bond shall be prepared on the form specified and issued by a surety company authorized to do business in the State of Alabama.

This project is being bid EXCLUDING TAXES and requires the Contractor to comply with applicable provisions of Section 40-9-14.1, Code of Alabama, 1975, as amended; applicable provisions of the Alabama Administrative Code; and applicable requirements of the Alabama Department of Revenue (ADOR).

A performance bond in the form and terms approved by the County in an amount not less than the contract price will be required at the signing of the contract. A labor and materials bond in the form and terms approved by the County in an amount not less than the contract price, insuring payment for all labor and materials, shall also be required at the signing of the contract. In addition, the contractor must furnish to the County at the time of the signing of the contract a certificate of insurance coverage as provided in the specifications. The right is reserved to reject any and/or all bids and to waive informalities and to furnish any item of material or work to change the amount of said contract.

Liquidated damages for non-completion of the work within the time limit agreed upon will be assessed in accordance with the terms of the contract.

Specifications are on file and may be viewed in the Mobile County, Alabama, Engineering Department, Mobile Government Plaza, Sixth Floor South Tower, Mobile, Alabama and in the office of

Specifications may be obtained by prime contractor bidders by depositing FIFTY AND NO/100 DOLLARS (\$50) with the Project Engineer for each set. This deposit shall be refunded in full upon return of the documents in reusable condition within ten (10) days after bid opening. The cost of and return of additional sets of specifications shall be in accord with Section 39-2-3(b), Code of Alabama (1975). No Specifications will be issued later than twenty-four (24) hours prior to the time indicated above for receiving bids.

A pre-bid conference will be held on **JANUARY 17**, **2024**, at **10:30 A.M.**, in the Mobile County, Alabama Engineering Department, Mobile Government Plaza, Sixth Floor South Tower, Mobile, Alabama. All prospective bidders should have a representative present at the pre-bid conference.

Bituminous Material Price Adjustments

Project No. MCR	Base Index for Asphalt Cement (Ib1) =	\$2.700
County: Mobile	Base Index for Emulsified and Cutback Asphalt (Ib2) =	\$3.080
	Month and Year of Base Index = Janua	rv-24

Definitions:

- P = Total Partial Payment on Monthly Estimate.
- P1 = Partial Payment for Asphalt Cement.
- P2 = Partial Payment for Emulsified and Cutback Asphalts.
- Ib1 = Base Index for Asphalt Cement.
- Ib2 = Base Index for Emulsified and Cutback Asphalts.
- Im1 = Monthly Index for Asphalt Cement.
- Im2 = Monthly Index for Emulsified and Cutback Asphalts.
- G1 = Gallons of Asphalt Cement used during the month.
- G2 = Gallons of Emulsified and Cutback Asphalt used during the month.
- D1 = Algebraic Difference (Im1-Ib1).
- D2 = Algebraic Difference (Im2-Ib2).

Refer to Specification Section 109.03(e)

Month	Year	(1)	109.03(e) G1	(2) G2	(3) Im1	(4) Im2	(5)* D1	(6)* D2	(7)	P1	(8) P2	(9) P
May	2024	16'	700 🌡	1308 🗸	2.81	3.13.	\$0.110	\$0.050		1,836.99	65.40	1,902.39
									12	37.00		1902.40
***************************************									*************			
	1											
	1											
	+											
	-											
	-											
	-											V

MIN	1											

\$1902.40

	MONTH PLACED	May	
PROJECT NO. MCR		BASE INDEX	\$2.700
COUNTY Mobile		MONTHLY INDEX	\$2.810

BITUMINOUS MATERIAL PRICE ADJUSTMENT WORKSHEET

ITEM NO.	% Virgin A.C. *	% Virgin A.C. x 2000 = 1b/ton	Tonnage Placed During Month	lb of A.C. Placed During Month	Gallons A.C. For Month **
424-A1	4.5%	90	1347.38	121264.20	14249.61
424-A2	4.5%	90	231.69 ,	20852.10	2450.31
	-				
	-				
	+				

MONTHLY TOTAL GALLONS	16700	V

NOTE: The gallons of asphalt from surface treatment, tack coat, and mulch adhesive is from actual gallons @ 60 degrees Fahrenheit used within the specifications as recorded in field books.

 $[\]ensuremath{^*}$ % Virgin A.C. Required by the Approved Job Mix Formula.

^{**} Formula for gallons A.C. = pounds of A.C. Placed Divided by 8.51 lb/gallon (see specification section no. 109.03(e)2).

	MONTH PLACED M	ay	
PROJECT NO MCD	-	BASE INDEX	\$2.700
PROJECT NO. MCR		MONTHLY INDEX	\$2.810
COUNTY Mobile		MONTHET HADEX	42.010
DITIMINALIS	MATERIAL PRICE ADJUSTME	NT WORKSHEET	
BITUMINOUS	WATERIAL PRICE ADJUST ME	IVI WORKSIEEZ	
		Gallons Emulsified or	Cuthack
ITEM NUMBER	DESCRIPTION	Asphalt used During	
405-A	NTSS-1HM Tack Coat for Patching	77.81 ·	
405-A	NTSS-1HM Tack Coat for Wearing	1230.22	
403-A	14133-11 HV Tack Code for Wedning		
A CANADA MANAGEMENT AND A CANADA CANA			

MONTHLY TOTAL GALLONS	1308

NOTE: The gallons of asphalt from surface treatment, tack coat, and mulch adhesive is from actual gallons @ 60 degrees Fahrenheit used within the specifications as recorded in field books.



Alabama Department of Transportation Asphalt Indices Summary 2024



Base→

Month	Unit of Measurement	PG Asphalt	PG Asphalt with Polymer	Emulsified Asphalt	Emulsified Asphalt with Polymer
January	Gallon	2.700	3.390	3.080	3.450
January	Liter	0.713	0.894	0.815	0.911
February	Gallon	2.680	3.350	3.080	3.450
February	Liter	0.707	0.884	0.815	0.911
March	Gallon	2.720	3.420	3.080	3.450
March	Liter	0.718	0.903	0.815	0.911
April	Gallon	2.740	3.450	3.090	3.470
April	Liter	0.724	0.912	0.815	0.918
May	Gallon	2.810	3.520	3.130	3.520
May	Liter	0.741	0.930	0.827	0.930
June	Gallon	2.810	3.520	3.130	3.520
June	Liter	0.741	0.930	0.827	0.930
July	Gallon	2.810	3.520	3.030	3.520
July	Liter	0.741	0.930	0.801	0.930
August	Gallon	2.790	3.500	3.010	3.500
August	Liter	0.738	0.924	0.796	0.925

FORM MC-27-1 REV. 4-29-11

ALABAMA DEPARTMENT OF TRANSPORTATION Adjustments Due To Cost Of Construction Fuel For HMA Production

Project No.	MCR	Base Index for HMA Fuel Production	1 (lb1) = \$1.930 ¢
County	Mobile	Month and Year of Base Index =	January-24

Definitions:

P = Total Partial Payment on Monthly Estimate.

P1 = Partial Payment for HMA Fuel Production

Ib1 = Base Index for HMA Fuel Production

Im1 = Monthly Index for HMA Fuel Production

G1 = # of Gallons used for HMA Fuel Production.

D1 = Algebraic Difference (Im1-Ib1).

Refer to Specification Section 109.03(e).

Year	(1) G1	(2) Im1	(3) D1	(4) P1	(5) P
		2.01	\$0.080	252.64 252.65	252.63
2024	2120				252,64
-		_			
++		 			
+					
+-+					
+					
-					
-		+			
+-+					
1					
	Year 2024				1011

\$252.64

ALABAMA DEPARTMENT OF TRANSPORTATION

	MONTH	N	May		
PROJECT NO. MCR			BASE INDEX	\$1.930	
COUNTY Mobile	and the second s		MONTHLY INDEX	\$2.010	
HMA FUE	EL COST - PRIC	E ADJUSTMENT	T WORKSHEET		
ITEM NO.	Rate: 2 gal/ton	Tonnage Placed During Month	Gal of Fuel Used Du	ring Month	
424-A1	2.0	1347.38	2694.76		

ITEM NO.	Rate: 2 gal/ton	During Month	Gal of Fuel Used During Month
424-A1	2.0	1347.38 •	2694.76
424-A2	2.0	231.69	463.38
		-	
			424-A1 2.0 1347.38

	/
MONTHLY TOTAL GALLONS	3158



Alabama Department of Transportation Fuel Indices Summary 2024



Mo	onth	Unit of Measurement	Fuel Index	Fuel Index (HMA Production Only)
Base → Jan	nuary	Gallon	2.190	1.930
Jan	nuary	Liter	0.579	0.510
Feb	ruary	Gallon	2.430	2.000
Feb	ruary	Liter	0.642	0.529
Ma	arch	Gallon	2.570	2.090
Ma	arch	Liter	0.679	0.552
A	pril	Gallon	2.550	2.070
A	pril	Liter	0.675	0.546
N	1ay	Gallon	2.400	2.010
M	1ay	Liter	0.634	0.531
Ju	une	Gallon	2.200	1.870
Ju	une	Liter	0.580	0.495
Jı	uly	Gallon	2.480	2.100
	uly	Liter	0.655	0.555
	gust	Gallon	2.330	1.930
	gust	Liter	0.615	0.511