## ISM-Houston

## **Business Report**

## September 2017



ISM-Houston, Inc.

## Most Gulf Coast Operations Show Recovery After Harvey

## **Production and Employment Improve**

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(Houston, Texas) – According to Houston area Supply Chain leaders, the Houston area economy made a partial recovery from the impact of Hurricane Harvey. The Houston Purchasing Managers Index moved up from 46.5 in August to 48.6 in September. Five of the underlying indicators (Production, Employment, Lead Times, Purchased Goods Inventories, and Finished Goods Inventories) are now pointing to expansion and three (Sales/New Orders, Purchases, and Prices Paid) are indicating potential contraction near term.

The Sales/New Orders index gained 9.6 points to 48.1 in September, its second month indicating potential contraction. The Production index moved up 5.0 points to neutral. The Employment index moved back to indicating expansion, up 5.7 points to 51.5. The Purchases index gained 6.9 points, remaining below neutral at 45.7. The Lead Times index gained 2.2 points to 54.5 and the Purchased Inventory index rose 5.4 points to 50.3, its first time above neutral in almost three years. These six indicators are directly correlated with economic activity. The Finished Goods Inventory index completed its fifth month pointing to expansion registering 49.0 points. This indicator is inversely correlated with economic activity. The other indicator that is inversely related to the economy, Prices Paid, indicated potential contraction near term for the third month, registering 59.5, up 5.1 points.

On an industry specific basis, durable goods manufacturing, non-durable goods manufacturing, and Health Care are point to expansion near term. Oil & Gas, EPC, and Professional Services are showing potential contraction. All other sectors reported near neutral.

INDICES AT A GLANCE							
Index	Sep	Aug	Change	Track	Rate	Trend*	
Houston PMI	48.6	46.5	2.1	Contracting	Slower	2	
Sales/New Orders	48.1	38.5	9.6	Falling	Slower	2	
Production	50.0	45.0	5.0	Neutral	Neutral	1	
Employment	51.5	45.8	5.7	Rising	Fr. Falling	1	
Purchases	45.7	38.8	6.9	Falling	Slower	2	
Prices Paid	59.5	54.4	5.1	Rising	Faster	3	
Lead Times	54.5	52.3	2.2	Rising	Faster	10	
Purchased Inventory	50.3	44.9	5.4	Rising	Fr. Falling	1	
Finished Goods Inventory	49.0	47.5	1.5	Falling	Slower	5	
	* Mor	nths on cu	ırrent trac	k			



**Commodities Reported Up in Price:** Fracking crews; vaccines; carbon steel and alloy pipe; pumps, compressors, and turbines; copper wire and cable

**Commodities Reported Down in Price:** Ocean freight from Europe; Computers and computer components; office supplies

**Commodities Reported in Short Supply:** High end rigs and fracking crews; custom pharmaceuticals; petrochemical feedstocks

#### WHAT OUR RESPONDENTS ARE SAYING AND SUMMARIES BY SECTOR

#### Oil and Gas Exploration, and Key Support Services:

- Fracking crew shortages are having an impact on our business
- Overall, respondents in this sector reported improvement from last month, but are still indicating business contraction; production and prices were up; purchases and inventories were down; employment and lead times were flat

#### **Engineering and Construction:**

- Overall, respondents in this area reported continued contraction this month; employment and purchases were down; prices were up; all other indicators were near neutral

#### **Manufacturing - Durable Goods:**

- Price of oil is back to \$50 a barrel, the rig count is holding around 900, and orders for manufactured parts are increasing driven in part by increased international orders
- This sector reported good expansion; sales, production, employment, purchases, and prices were up, while all other indicators where flat

#### Manufacturing - Non-Durable Goods:

- As Gulf Coast facilities recover from Harvey, supply chain balances also are beginning to recover from widespread unplanned downtime
- Primary commodities in our business are up in price due to short term shortages and lost production
- Respondents in this area reported strengthening; sales, prices, and lead times increased; production, purchases, and inventories fell

#### **Professional Services:**

- Hurricane Harvey disrupted business activity for nearly three weeks; activity levels are just now getting back to "normal" the first week of October
- Respondents in this area reported further weakening with sales, employment, and purchase down **Health Care**:
- Hiring is very slowly occurring and administrative spend gradually as well; contingent workplace hiring is continuing to increase
- This sector reported additional strengthening this month with employment, purchases, prices, and lead times all increasing

# ISM-Houston

## **Business Report**

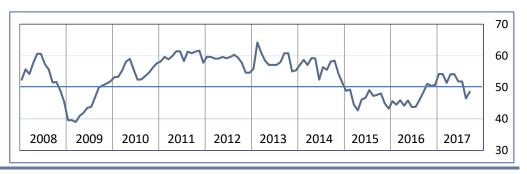
## September 2017



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#### **Houston PMI Trend**

The Houston PMI indicates likely shifts in economic activity three or four months in advance. Readings over 50 generally indicate expansion over the near term; readings below 50 show coming contraction.



#### **Trend of Underlying Indicators**

Sep/17

20

The Houston PMI is based on diffusion indices for eight underlying indicators as shown below. The net value of each of these indicators is simply the percentage of respondents who cite a positive shift from the previous month minus the percentage who cite a negative shift. The diffusion index is calculated based on the percent of respondents reporting higher results plus one-half of those responding the same with a seasonal adjustment based on an X12 ARIMA forecast using the previous 12 years data. Seasonally adjusted values above 50 for the Sales/New Orders, Production, Employment, Purchases, Lead Times and Purchased Inventory indicators point towards expansion and values below 50 signal contraction. The Prices Paid and Finished Goods Inventory indicators are inversely correlated to economic activity, meaning that values below 50 point to expansion and values above point to contraction.

#### % % Higher Same Index Lower Net Apr/17 29 70 1 28 63.0 25 71 4 21 58.7 May/17 Jun/17 13 78 9 4 51.9 2 50.6 Jul/17 12 78 10 Aug/17 2 74 24 -21 38.5

56

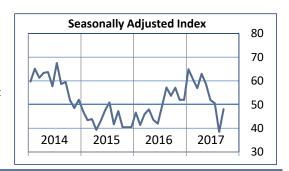
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-4

48.1

The sales/new orders index improved with the restart of facilities impacted by Harvey. Manufacturing showed significant gains, while oil & gas, including supporting activities, showed continued weakness.

Sales/New Orders



	%	%	%		
	Higher	Same	Lower	Net	Index
Apr/17	23	75	2	21	62.2
May/17	6	92	2	4	52.1
Jun/17	5	93	2	4	52.6
Jul/17	5	92	3	2	51.7
Aug/17	2	87	11	-8	45.0
Sep/17	20	61	19	1	50.0

The production index improved to neutral with oil & gas and durable goods manufacturing showing improvement. Non-durable goods reported reductions. Most other sectors responded as unchanged from last month.

**Production** 

Seasonally Adjusted Index							
				80			
				70			
MAA			٨	60			
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	\ \ \ \	$\mathcal{M}$		40			
	\ \			30			
2014	2015	2016	2017				
	İ			20			

Employment			
	%	%	%

	%	%	%			
	Higher	Same	Lower	Net	Index	The employment index returned
Apr/17	23	70	7	16	55.1	to showing growth, with health
May/17	14	76	10	4	50.8	care and durable goods
Jun/17	15	81	4	11	53.1	manufacturing reporting
Jul/17	15	72	13	2	50.9	increases. EPC firms and
Aug/17	12	70	18	-6	45.8	professional services reported
Sep/17	26	52	22	4	51.5	staff reductions.



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# INSTITUTE FOR SUPPLY MANAGEMENT

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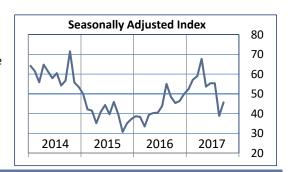
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#### **Purchases**

	%	%	%		
	Higher	Same	Lower	Net	Index
Apr/17	36	60	4	32	67.7
May/17	20	65	15	5	53.7
Jun/17	17	75	8	9	55.4
Jul/17	16	73	11	5	55.4
Aug/17	6	68	26	-20	38.8
Sep/17	21	55	24	-3	45.7

The purchases index rebounded, but stayed below neutral. Durable goods manufacturing and health care reported increases. EPC firms, oil & gas, and non-durable goods manufacturing noted reductions month over month.



#### **Prices Paid**

	%	%	%		
	Higher	Same	Lower	Net	Index
Apr/17	11	87	2	9	51.3
May/17	3	94	3	0	49.2
Jun/17	5	87	8	-2	49.5
Jul/17	12	86	2	10	57.8
Aug/17	9	89	2	7	54.4
Sep/17	32	53	15	17	59.5

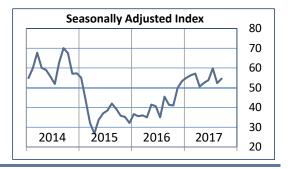
The prices paid index increased with oil & gas, construction, manufacturing, and health care all reporting prices as up from last month. No sector reported prices as falling this month.



#### **Lead Times**

	%	%	%		
	Higher	Same	Lower	Net	Index
Apr/17	8	90	2	6	50.6
May/17	9	89	2	7	52.5
Jun/17	12	86	2	10	53.9
Jul/17	23	75	2	21	59.8
Aug/17	5	93	2	2	52.3
Sep/17	21	64	15	6	54.5

The lead times index also rose this month. Non-durable goods manufacturing and health care reported the greatest increases in this index, with all other sectors reporting near neutral overall.



#### **Purchased Inventory**

	%	%	%		
	Higher	Same	Lower	Net	Index
Apr/17	2	92	6	-4	48.5
May/17	1	90	9	-9	44.0
Jun/17	2	86	12	-10	43.2
Jul/17	0	89	11	-11	43.8
Aug/17	2	87	11	-8	44.9
Sep/17	15	64	21	-6	50.3

The purchased goods inventory index moved to modest expansion this month with most sectors reporting near neutral.



### Finished Goods Inventory

	%	%	%		
	Higher	Same	Lower	Net	Index
Apr/17	10	85	5	5	51.2
May/17	5	86	9	-4	48.7
Jun/17	5	86	9	-3	49.6
Jul/17	5	87	8	-3	48.3
Aug/17	2	90	8	-6	47.5
Sep/17	16	62	22	-6	49.0

The finished goods inventory index continues to run just below neutral. Durable goods manufacturing reported increases in this index, while non-durable goods reported reductions. Other sectors reported as unchanged.

