





# [1] US spending, mobility and production tracker

#### High frequency US data tracker

Index, with 0 = lowest observed value and 100 = highest observed value, Jan 1 2020 to present



Source: WWPA, EIA, AISI, EEI, AAR, Redbook, TSA.gov, Apple, Smith Travel, MBA, ThinkNum, JPMAM. January 30, 2021.

#### **Contents**

- High frequency recovery summary, national level (above)
- Credit and debit card spending: nationwide spending; social distancing spending; close-up look at oil, airlines, restaurants and lodging; growth in e-commerce
- Additional national data: US/NYC travel tracker, hotel occupancy rates, mortgage applications, manufacturing activity, shipping, demand for crude oil and floating storage, rail traffic for consumer goods, Weekly Economic Index
- Lockdown and mobility data: US vs UK lockdown stringency index; changes in movement for retail, restaurants, transit and workplaces in the US, Europe and Asia





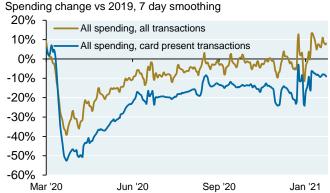


#### Credit and debit card spending trends

Here's our new analysis on the US consumer based on select internal Chase transaction data<sup>1</sup>. On a national level, consumer spending in our credit and debit card data set<sup>2</sup> is up roughly 10% vs 2019 (first chart). However, this aggregation includes a lot of e-commerce. When narrowing the focus to consumer transactions that took place with "cards present", the y/y decline in spending is larger.

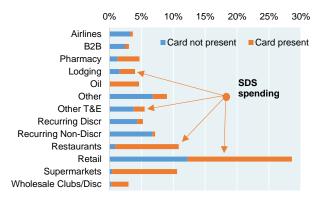
We're also interested specifically in discretionary "social distancing spending" (SDS). For our purposes, we define SDS as "card present" transactions for retail, lodging, restaurants, rental cars, ride hailing/taxis/limos, amusement parks, tourist attractions, theaters, night clubs and other recreational services. In other words, discretionary spending that requires people to go someplace and not buy from home. In our dataset, cardpresent SDS represented around one third of all consumer spending in 2019. The SDS decline in 2020 was even sharper than the decline in total spending, since the latter includes food, healthcare, gasoline, recurring payments and other non-discretionary items.

## National credit and debit card spending trends



Source: Internal Chase data, JPMAM, January 25, 2021.

#### Dataset spending categories by transaction type, 2019



Source: Internal Chase data, JPMAM, 2019.

#### Social distancing spending, card present transactions Spending change vs 2019, 7 day smoothing



Source: Internal Chase data, JPMAM. January 25, 2021. Social distancing: retail, lodging, restaurants, amusement parks, theaters and other recreational services

<sup>&</sup>lt;sup>1</sup> This report uses rigorous security protocols for selected data sourced from Chase credit and debit card transactions to ensure all information is kept confidential and secure. All selected data is highly aggregated and all unique identifiable information, including names, account numbers, addresses, dates of birth, and Social Security Numbers, is removed from the data before the report's author receives it.

<sup>&</sup>lt;sup>2</sup> Our data may not be representative of national spending trends. While it is based on a large number of cardholders, we have not normalized the data for age, gender, income or other factor differences vs the national average.

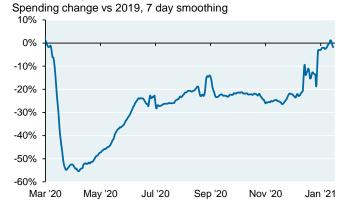






# Oil, airlines, restaurants and lodging

### Oil spending, all transactions



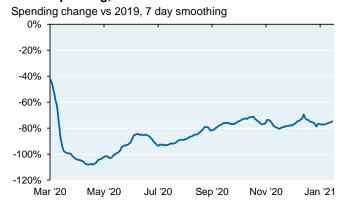
Source: Internal Chase data, JPMAM. January 25, 2021.

## National credit and debit card spending trends



Source: Internal Chase data, JPMAM. January 25, 2021.

### Airline spending, all transactions



Source: Internal Chase data, JPMAM. January 25, 2021.

# Lodging spending, all transactions

Spending change vs 2019, 7 day smoothing







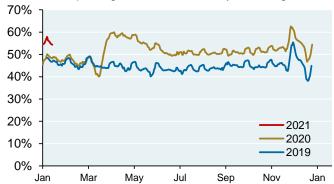


#### **E-commerce monitor**

Lingering consumer preferences for e-commerce after the pandemic is over may be one of its more lasting legacies, with implications for a wide range of sectors and industries.

#### All spending e-commerce shares

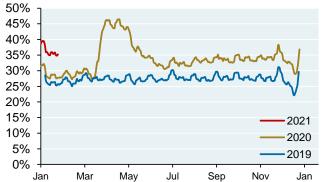
Share of total spending via e-commerce, 7 day smoothing



Source: Internal Chase data, JPMAM. January 25, 2021.

## Healthcare/Pharmacy spending e-commerce shares

Share of total spending via e-commerce



Source: Internal Chase data, JPMAM. January 25, 2021.

## Wholesale/Discount clubs spending e-commerce shares

Share of total spending via e-commerce



Source: Internal Chase data, JPMAM. January 25, 2021.

#### Retail spending e-commerce shares

Share of total spending via e-commerce



Source: Internal Chase data, JPMAM. January 25, 2021.

### Supermarket spending e-commerce shares

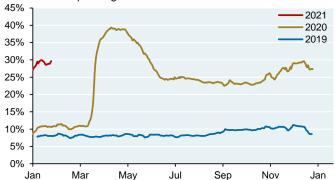
Share of total spending via e-commerce



Source: Internal Chase data, JPMAM. January 25, 2021.

#### Restaurant spending e-commerce shares

Share of total spending via e-commerce



Source: Internal Chase data, JPMAM. January 25, 2021.





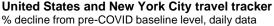


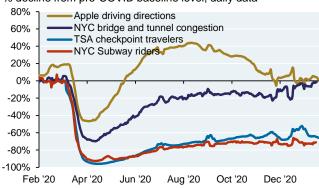
## Nationwide consumer, mobility and manufacturing trackers

#### **US** retail sales



## Source: Redbook Research. January 23, 2021

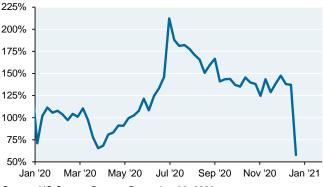




Source: NYC MTA, TSA, Apple. January 30, 2021.

### New business applications filed with the IRS

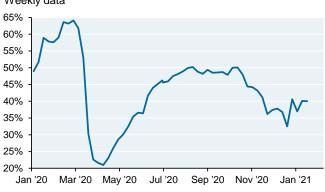
% of 2019 level, weekly data



Source: US Census Bureau. December 26, 2020.

### US hotel occupancy rate

Weekly data



Source: STR. January 23, 2021

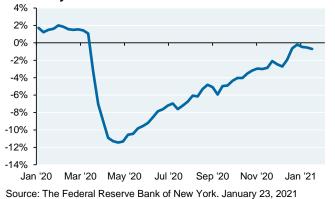
## US mortgage applications for purchases of singlefamily homes, % change vs 2019, weekly data



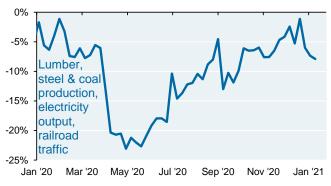
Jan '20 Mar '20 May '20 Jul '20 Sep '20 Nov '20 Jan '21 Source: Mortgage Bankers Association. January 22, 2021



# Estimated % change since 2019 in US GDP growth based on Weekly Economic Index conditions

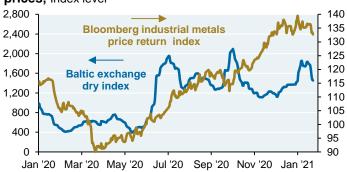


# **US high frequency manufacturing tracker** % change vs 2019, weekly data



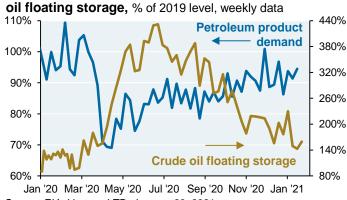
Source: WWPA, EIA, AISI, AAR, EEI, Haver. JPMAM. January 16, 2021.

# Baltic exchange dry index vs industrial commodity prices, Index level



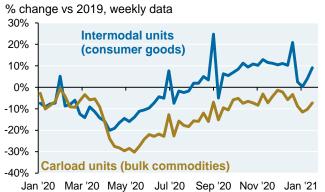
Source: Bloomberg. January 29, 2021. Bloomberg's Industrial Metals Index reflects price changes in Copper, Aluminum, Zinc, and Nickel

# US demand for petroleum products vs global crude



Source: EIA, Vortexa LTD. January 29, 2021

#### **US** railroad traffic



Source: Association of American Railroads. January 23, 2021

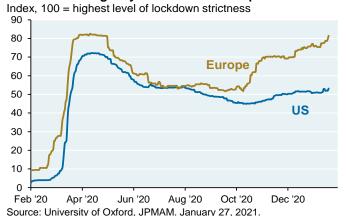






### **Lockdowns and Mobility data**

### Lockdown stringency index: US vs Europe



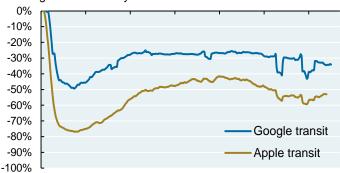
# Regional mobility data: US vs Europe % change from baseline: retail, restaurants, transit & workplace



Feb '20 Apr '20 May '20 Jul '20 Aug '20 Oct '20 Dec '20 Jan '21 Source: Google, JPMAM. January 26, 2021. 7 day avgs.

# Google vs Apple transit mobility trends

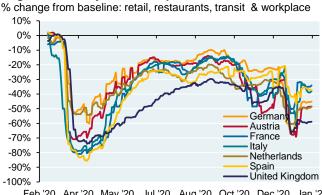
% change since January 2020 baseline



Mar '20 Apr '20 Jun '20 Aug '20 Sep '20 Nov '20 Jan '21 Source: Google, Apple. January 28, 2021. 7 day avgs.

## **International mobility data**

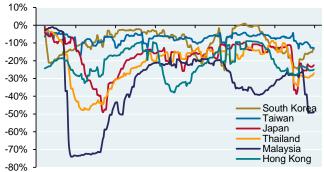
#### Regional mobility data: Europe



Feb '20 Apr '20 May '20 Jul '20 Aug '20 Oct '20 Dec '20 Jan '21 Source: Google, JPMAM. January 26, 2021. 7 day avgs.

### Regional mobility data: Asia

% change from baseline: retail, restaurants, transit & workplace



Feb '20 Apr '20 May '20 Jul '20 Aug '20 Oct '20 Dec '20 Jan '21 Source: Google, JPMAM. January 26, 2021. 7 day avgs.









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