

***Market Outlook Considerations
Chart Book, Week Beginning
August 12, 2019***

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*Robert Coats, Ph.D.
Economist
Arkansas Department of Agriculture
1 Natural Resources Drive
Little Rock, AR 72205*

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Market Outlook Considerations for Week Beginning August 12, 2019

Chart Book Index

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Market Outlook Considerations for Week Beginning August 12, 2019

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Chart Book Index - \$CRB, \$WTIC, Soybeans, Corn, Rice, Cotton, Wheat

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Market Outlook Considerations for Week Beginning August 12, 2019

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Commodity ETFs Book Index

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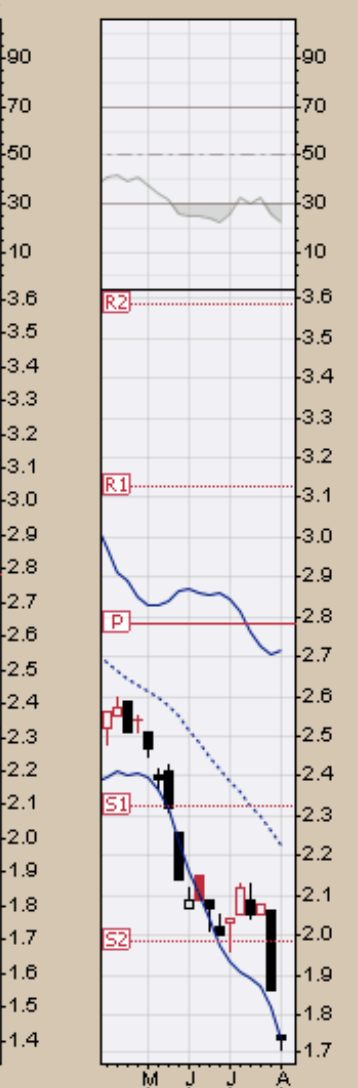
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***\$UST10Y – 10 Year US Treasury Yield
Weekly, Daily and Monthly Charts***

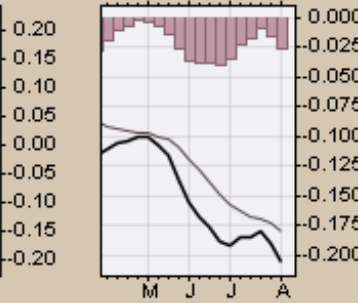
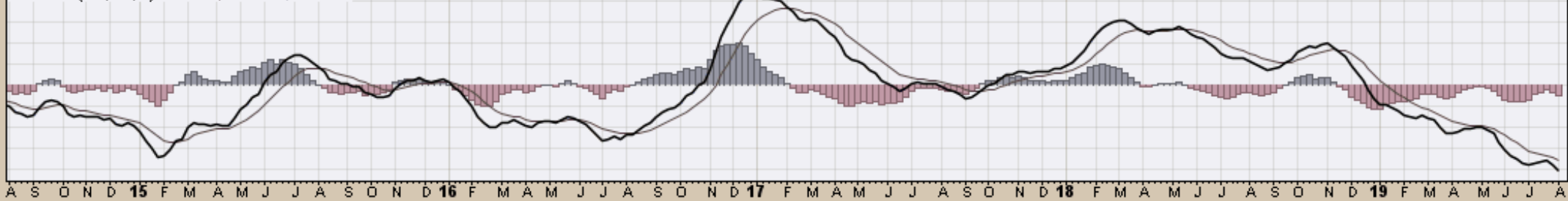
RSI(14) 22.66

CHART A1. \$UST10Y - 10-YEAR US TREASURY YIELD, WEEKLY CHART

\$UST10Y (Weekly) 1.74
 BB(20,2,0) 1.74 - 2.23 - 2.72
 PIVOTS 1.98, 2.33, 2.78, 3.13, 3.58
 Volume undef



MACD(12,26,9) -0.206, -0.180, -0.026



9-Aug-2019

Open 1.74 High 1.74 Low 1.74 Close 1.74 Chg +0.02 (+1.16%) ▲

— \$UST10Y (Daily) 1.74
— MA(200) 2.54
▒ Volume undef

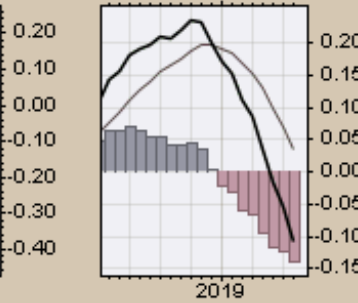
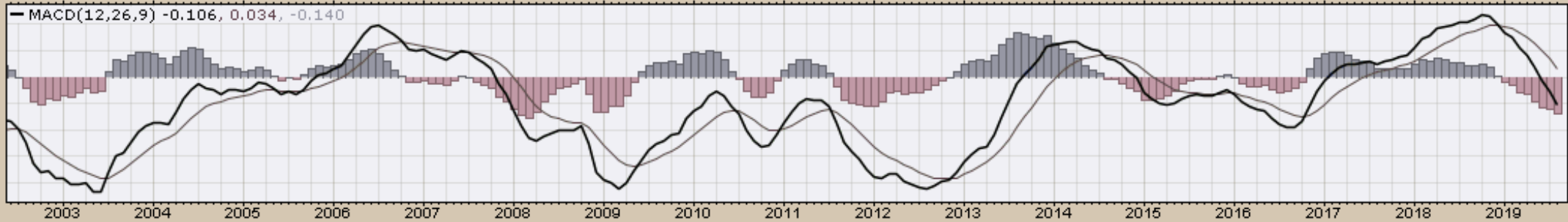
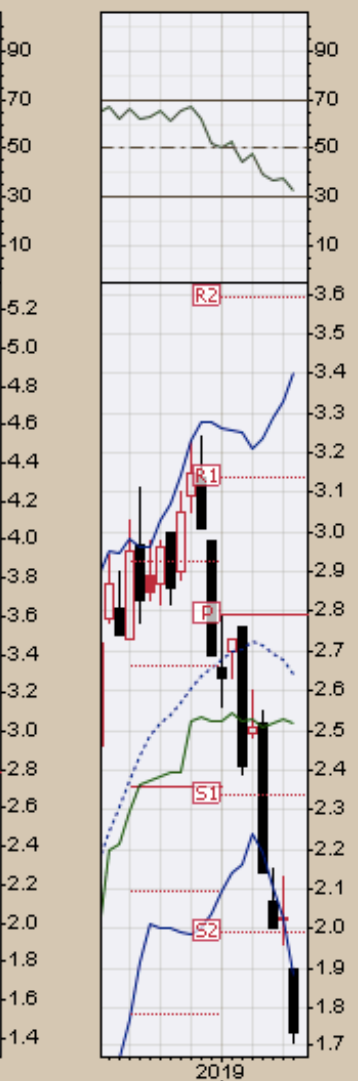
CHART A2. \$UST10Y - 10-YEAR US TREASURY YIELD, DAILY CHART



RSI(14) 32.86

CHART A3. \$UST10Y - 10-YEAR US TREASURY YIELD, MONTHLY CHART

\$UST10Y (Monthly) 1.74
BB(20,2,0) 1.88 - 2.64 - 3.40
PIVOTS 1.99, 2.34, 2.79, 3.14, 3.59
CHANDLR(22,3,0) 2.52
Volume undef



9-Aug-2019
-\$UST10Y (Monthly) 1.74
-MA(200) 3.12



CHART A4. \$UST10Y - 10-YEAR US TREASURY YIELD, MONTHLY CHART

US Dollar Index
Weekly, Daily and Monthly Charts

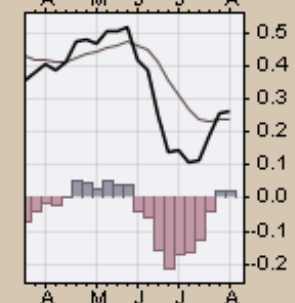
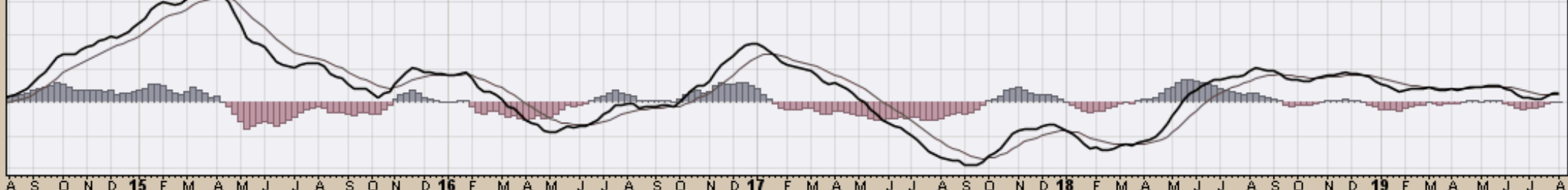
RSI(14) 53.81

CHART A5. U.S. DOLLAR INDEX, WEEKLY CHART

\$USD (Weekly) 97.32
 MA(200) 95.91
 CHANDLR(22,3,0) 95.61
 PIVOTS 84.43, 90.09, 93.81, 99.47, 103.19

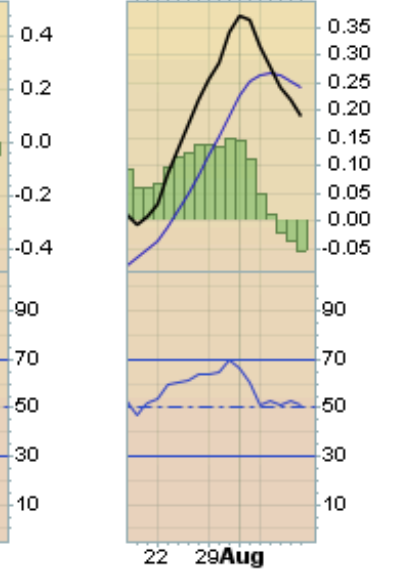


MACD(12,26,9) 0.262, 0.240, 0.021



US Dollar Index - Cash Settle (EOD) (Daily) 97.32
BB(20,2.0) 96.42 - 97.38 - 98.33
PIVOTS 94.82, 96.54, 97.49, 99.21, 100.16
CHANDLR(22,3.0) 97.40
Volume undef

CHART A6A. US DOLLAR INDEX, DAILY CHART



US Dollar Index - Cash Settle (EOD) (Daily) 97.32

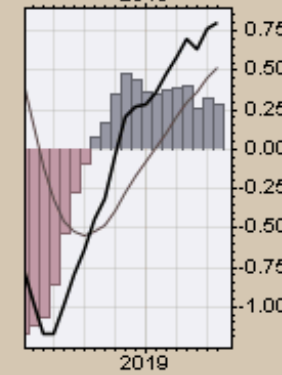
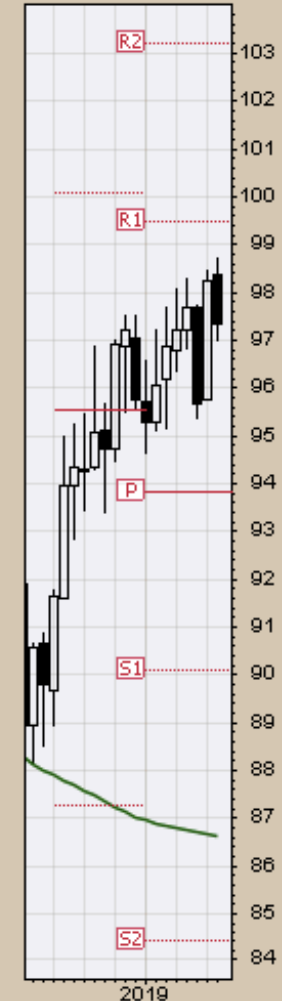
CHART A6B. US DOLLAR INDEX, DAILY CHART



9-Aug-2019

\$USD (Monthly) 97.32
MA(200) 86.64
PIVOTS 84.43, 90.08, 93.81, 99.46, 103.18

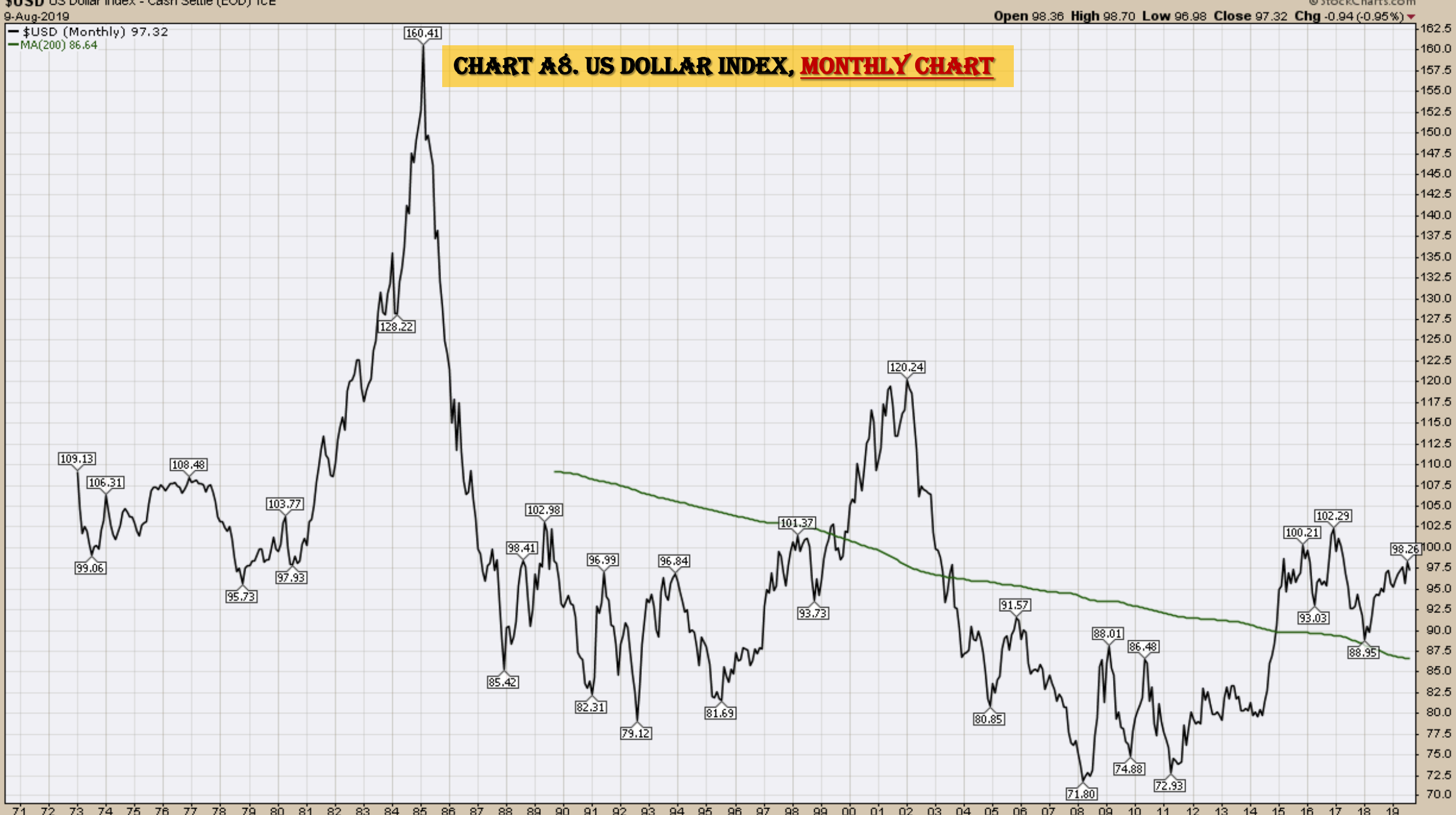
CHART A7. US DOLLAR INDEX, MONTHLY CHART



9-Aug-2019

\$USD (Monthly) 97.32
MA(200) 86.64

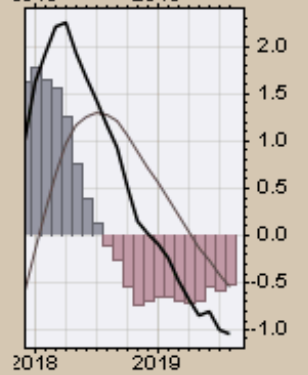
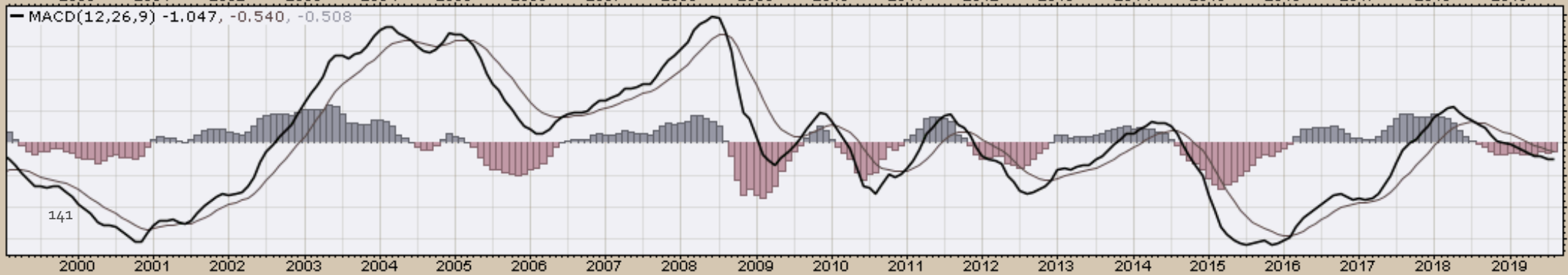
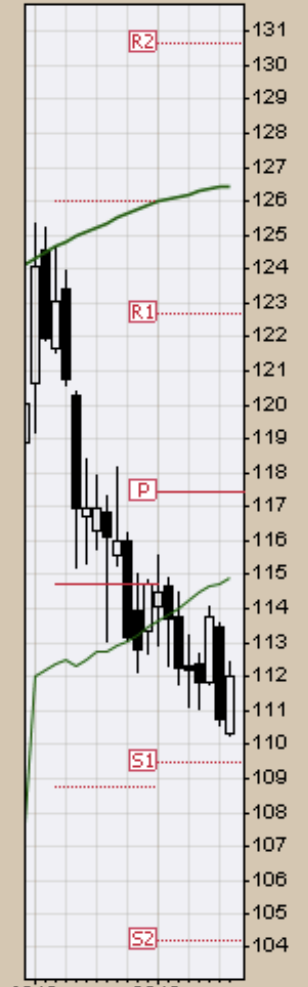
CHART A8. US DOLLAR INDEX, MONTHLY CHART



Select Currency Charts
Monthly Charts



CHART A9. EURO, MONTHLY CHART



9-Aug-2019

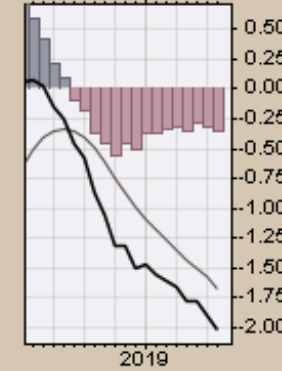
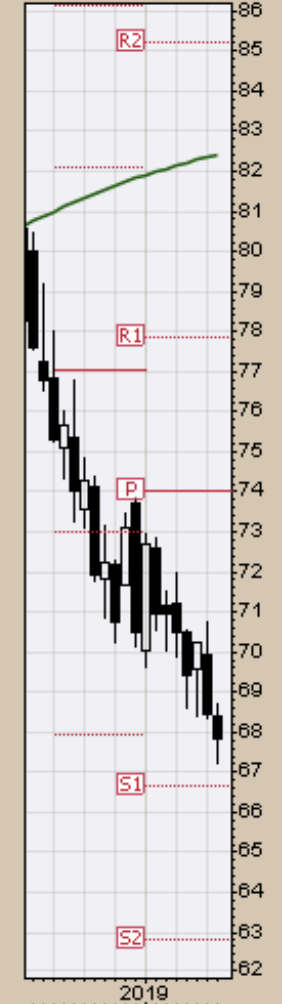
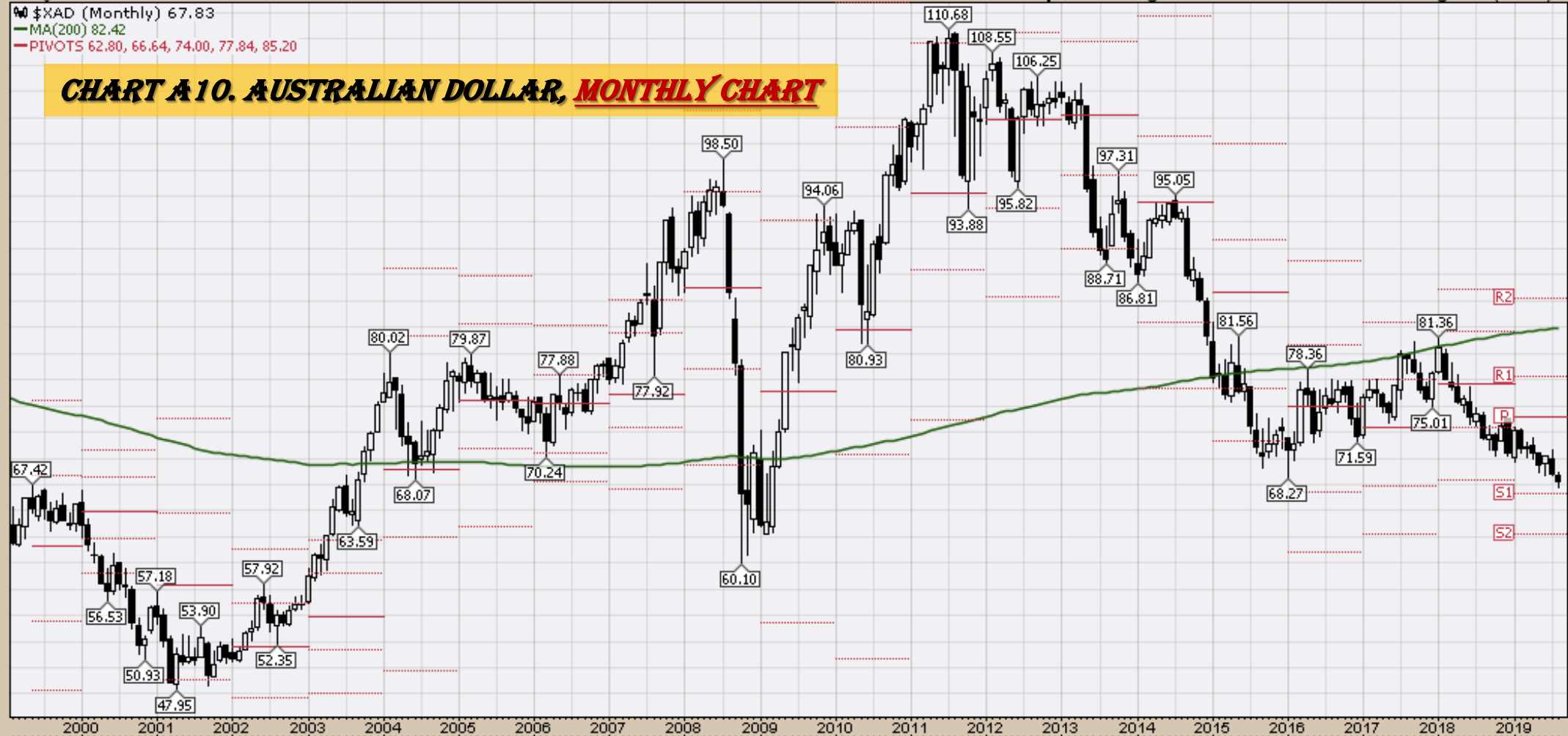
Open 68.40 High 68.69 Low 67.22 Close 67.83 Chg -0.62 (-0.91%)

\$XAD (Monthly) 67.83

MA(200) 82.42

PIVOTS 62.80, 66.64, 74.00, 77.84, 85.20

CHART A10. AUSTRALIAN DOLLAR, MONTHLY CHART



100 \$CDW (Monthly) 75.67

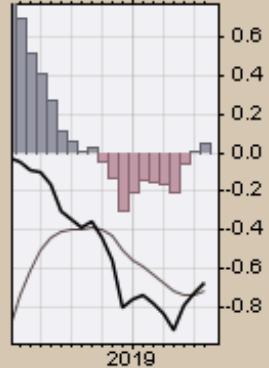
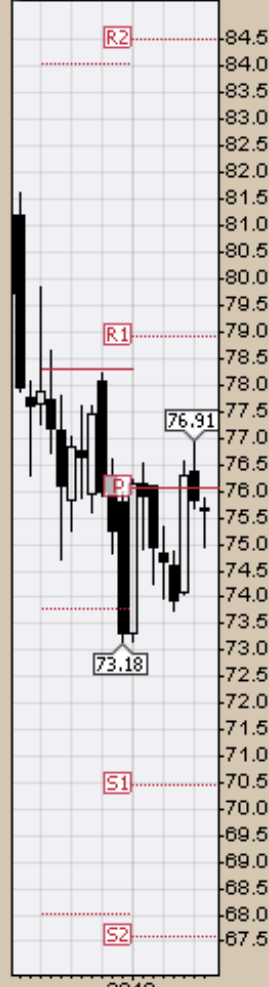
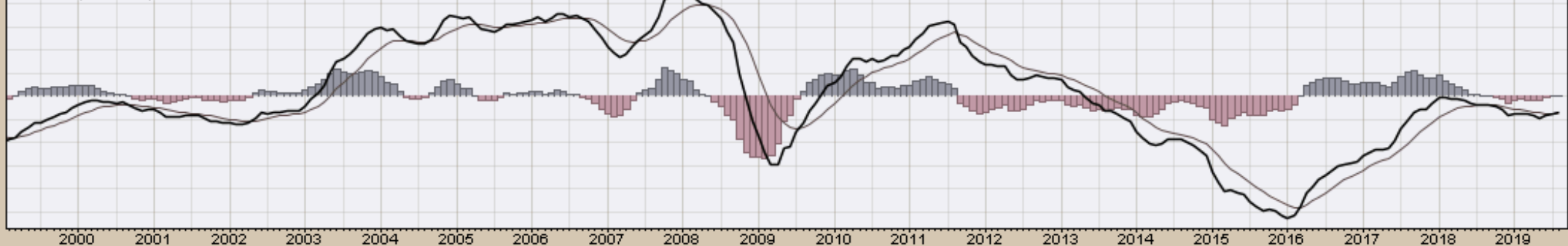
MA(200) 86.39

PIVOTS 67.59, 70.46, 76.05, 78.91, 84.50



CHART A11. CANADIAN DOLLAR, MONTHLY CHART

MACD(12,26,9) -0.673, -0.723, 0.050

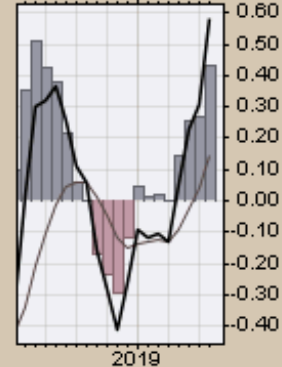
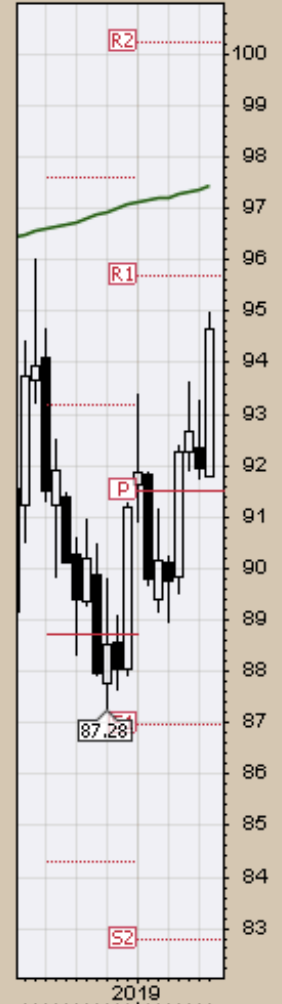


9-Aug-2019

Open 91.80 High 94.99 Low 91.80 Close 94.68 Chg +2.72 (+2.96%) ▲

\$XJY (Monthly) 94.68
MA(200) 97.43
PIVOTS 82.77, 86.98, 91.49, 95.70, 100.21

CHART A12. JAPANESE YEN, MONTHLY CHART



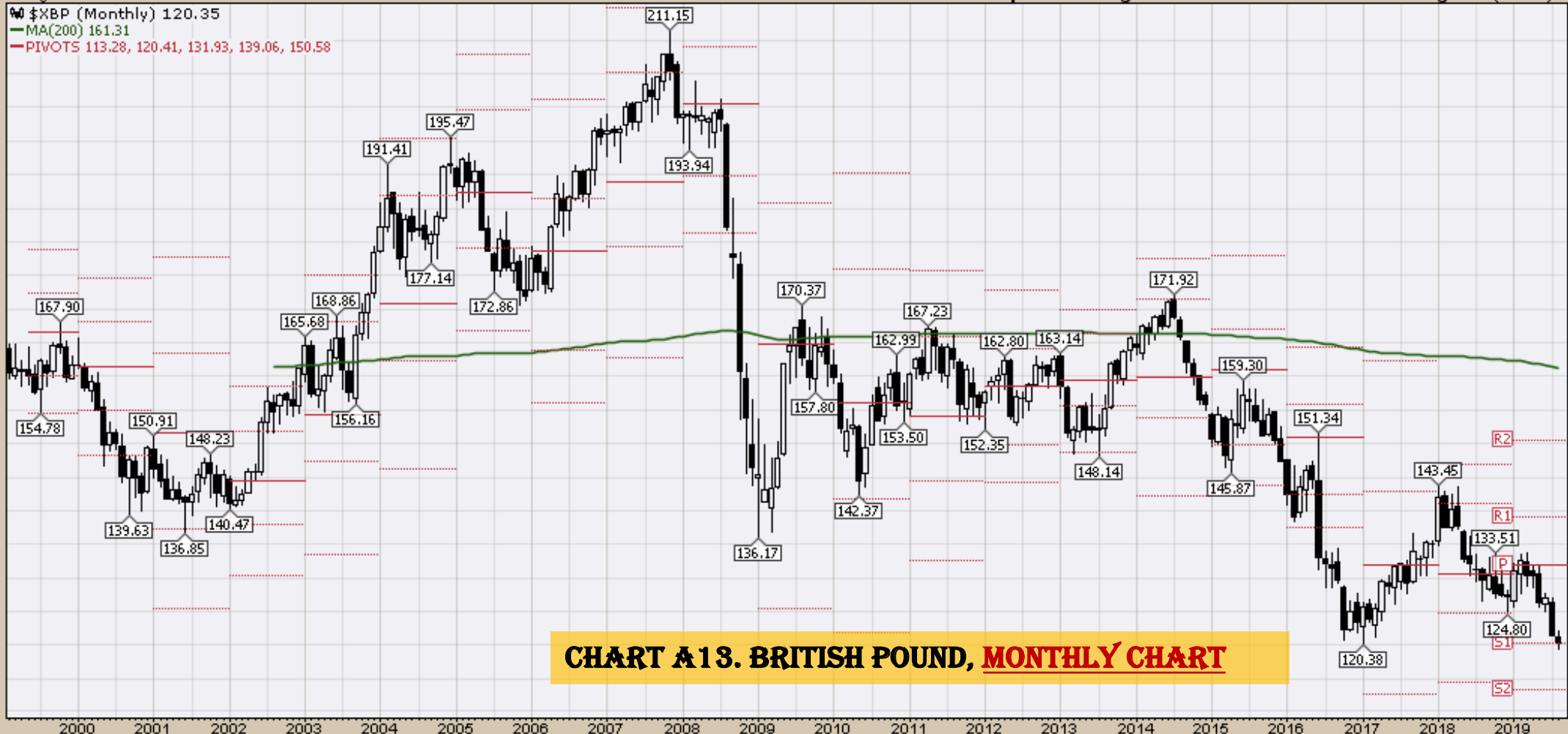
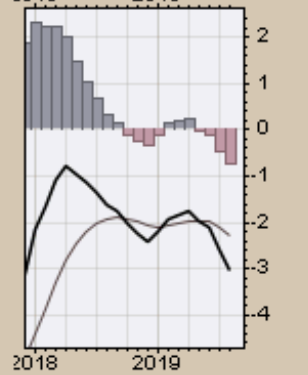
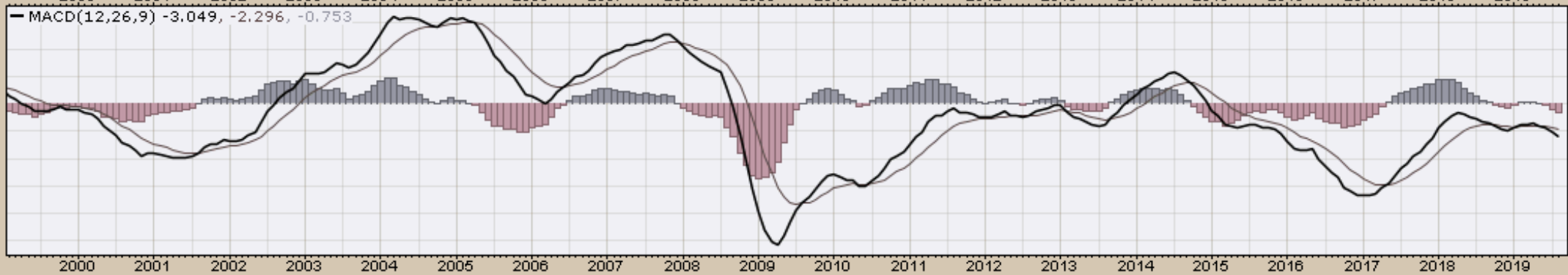
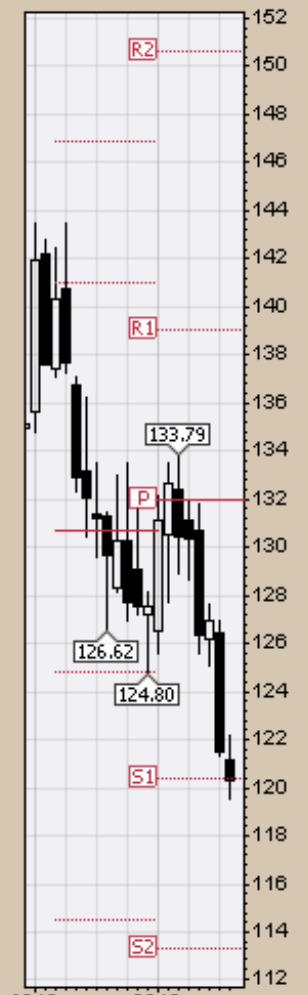


CHART A13. BRITISH POUND, MONTHLY CHART



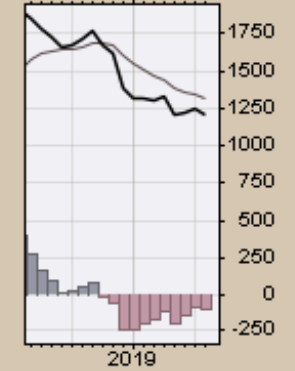
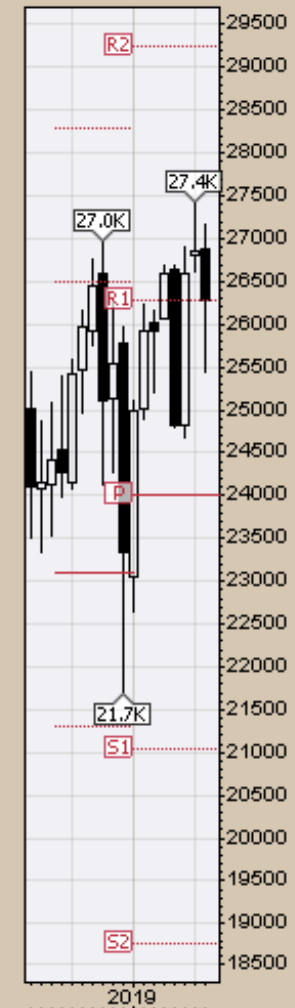
Select Equity and Transportation Charts
Monthly Charts

\$INDU (Monthly) 26287.44

MA(200) 14524.58

PIVOTS 18757.99, 21042.72, 23997.27, 26282.01, 29236.55

CHART A14. DOW JONES, MONTHLY CHART



\$TRAN (Monthly) 10207.21
MA(200) 5968.26
PIVOTS 6823.47, 7996.93, 9810.26, 10983.72, 12797.05

CHART A15. DOW TRANSPORTS, MONTHLY CHART

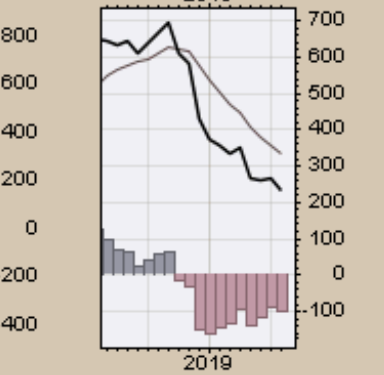
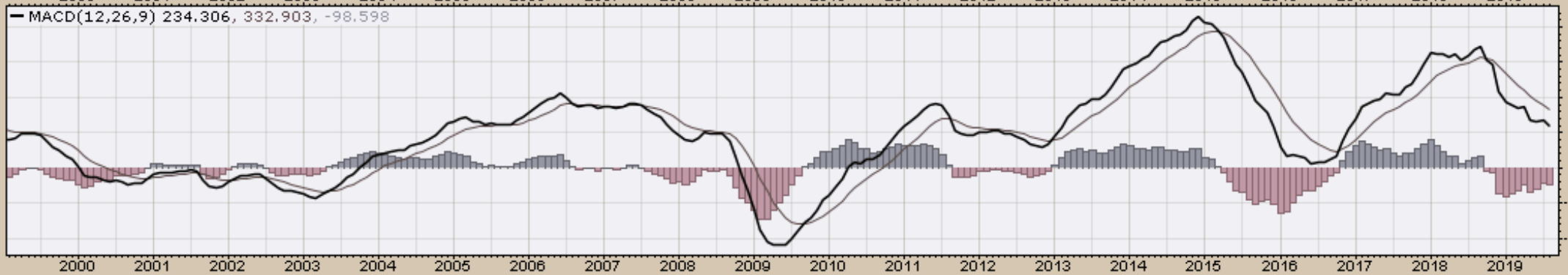
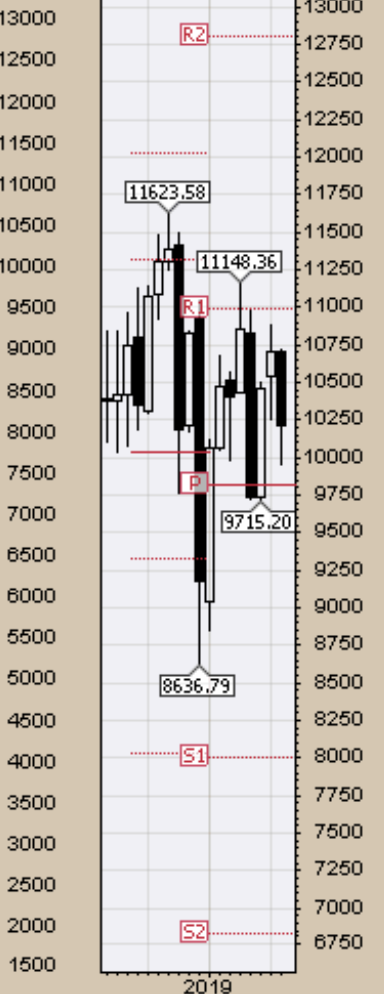
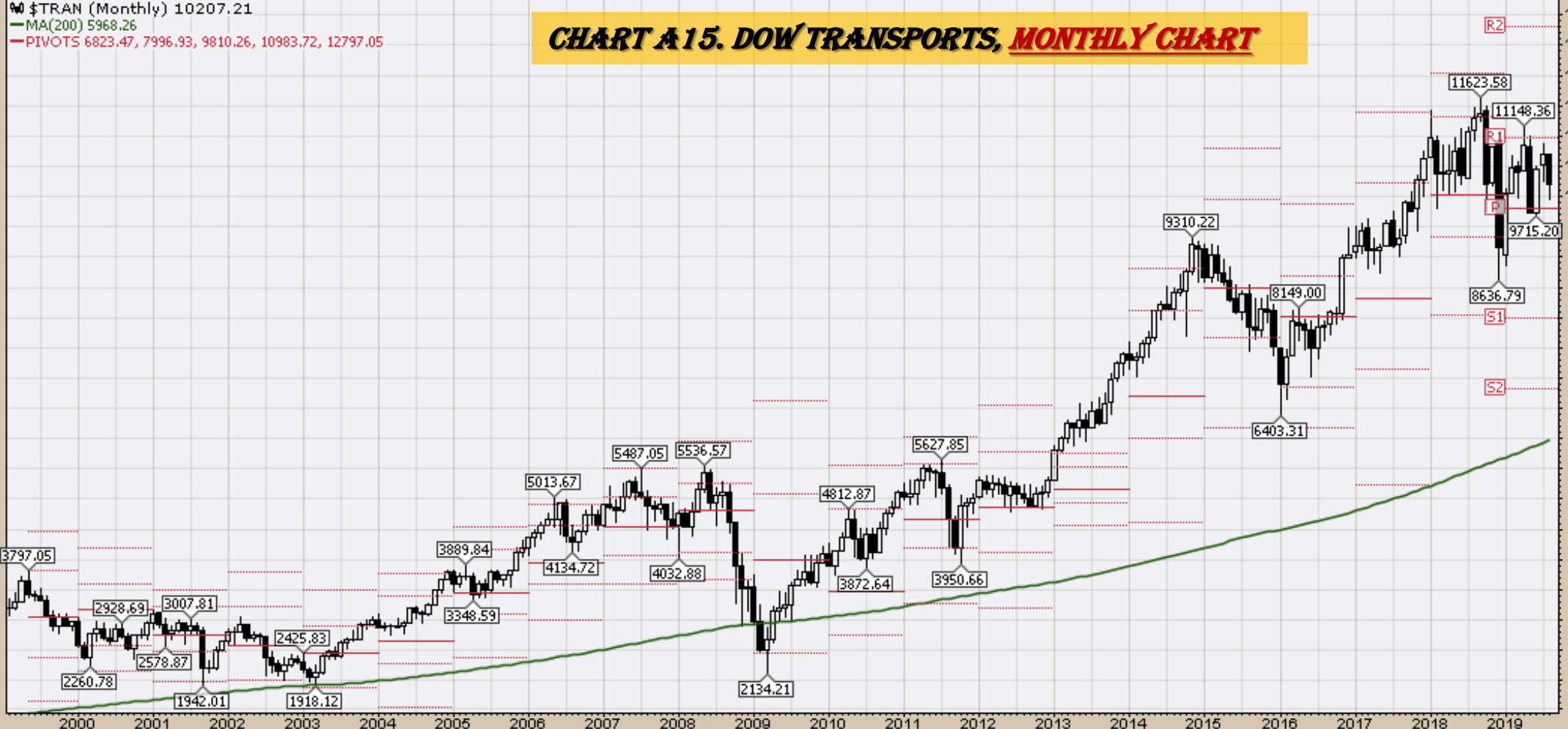
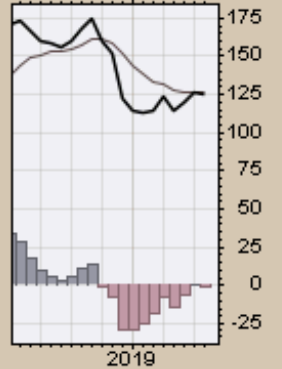
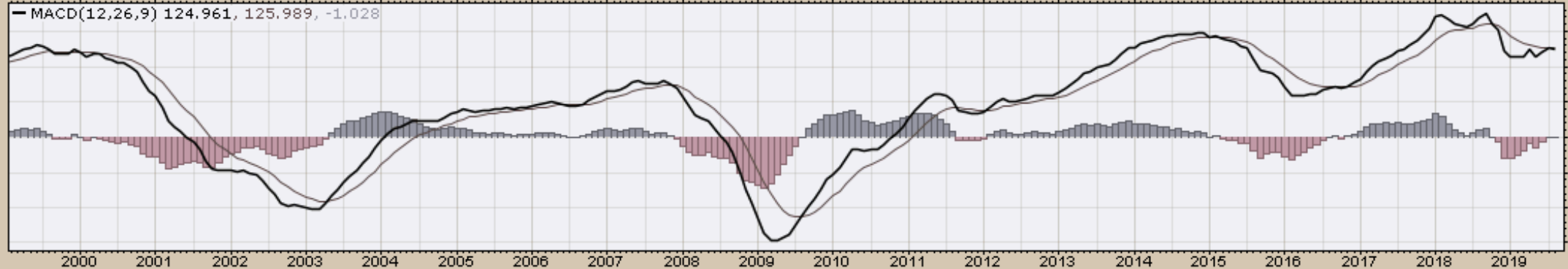
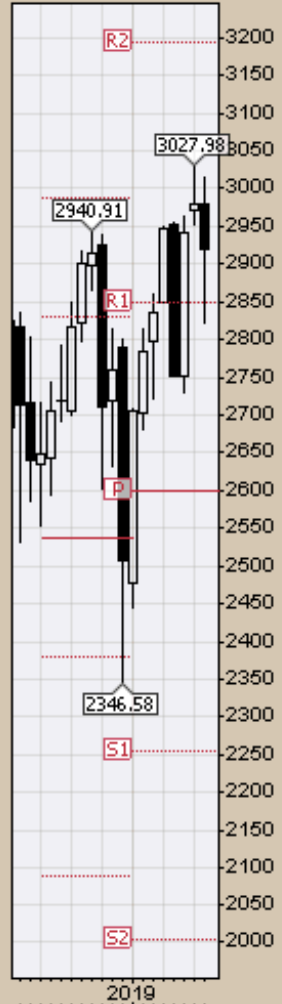


CHART A 16. S&P 500 LARGE CAP INDEX, MONTHLY CHART

\$SPX (Monthly) 2918.65

MA(200) 1615.85

PIVOTS 2003.78, 2255.32, 2598.11, 2849.65, 3192.44



\$COMPQ (Monthly) 7959.14
MA(200) 3567.96
PIVOTS 5043.11, 5839.20, 6986.25, 7782.33, 8929.38

CHART A17. NASDAQ COMPOSITE, MONTHLY CHART

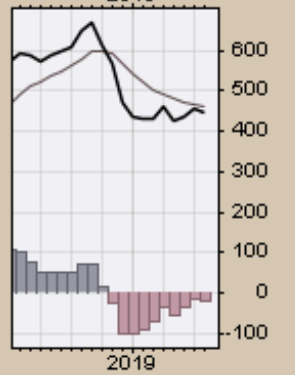
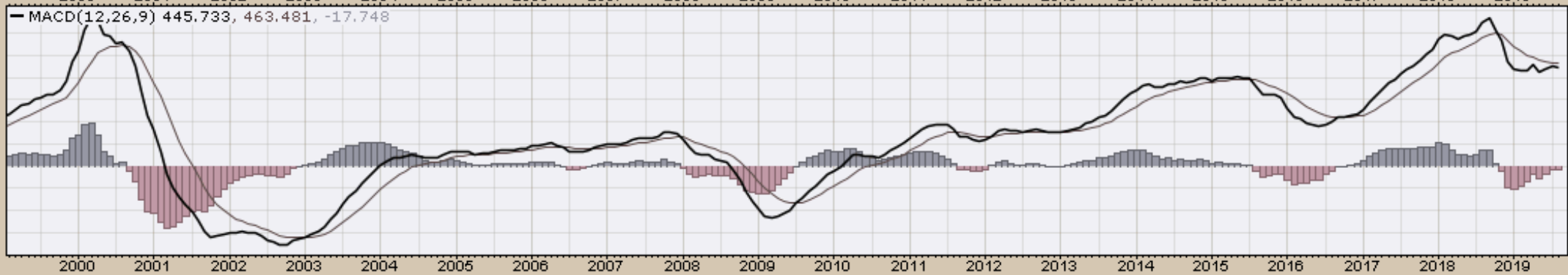
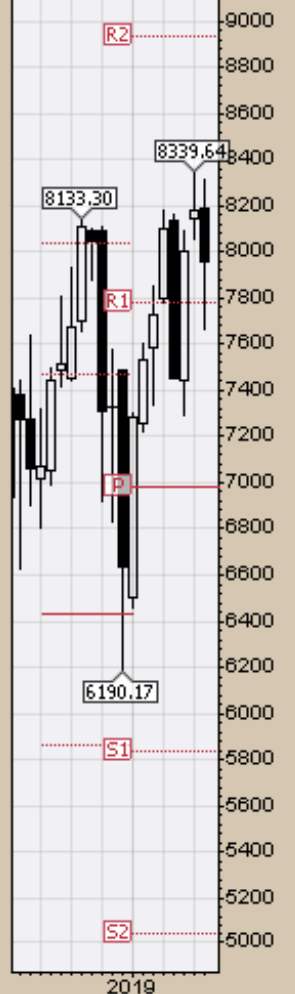
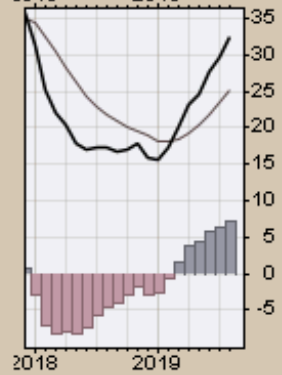
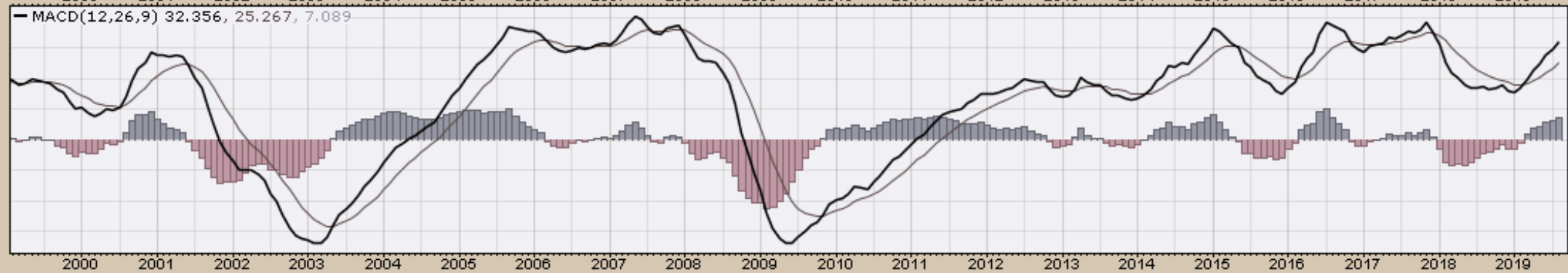


CHART A18. DOW UTILITIES, MONTHLY CHART

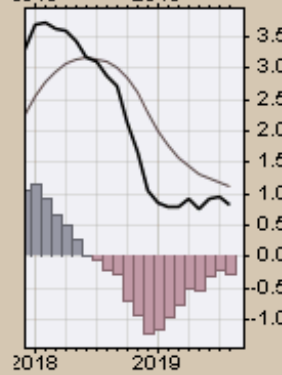
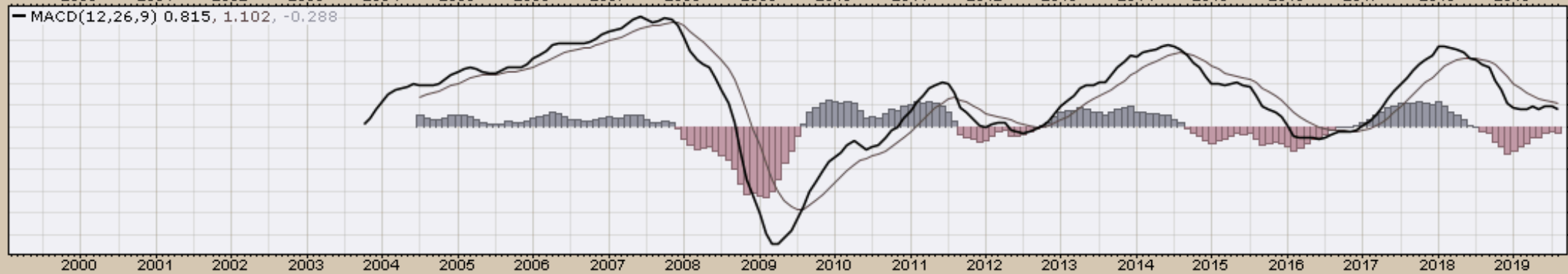
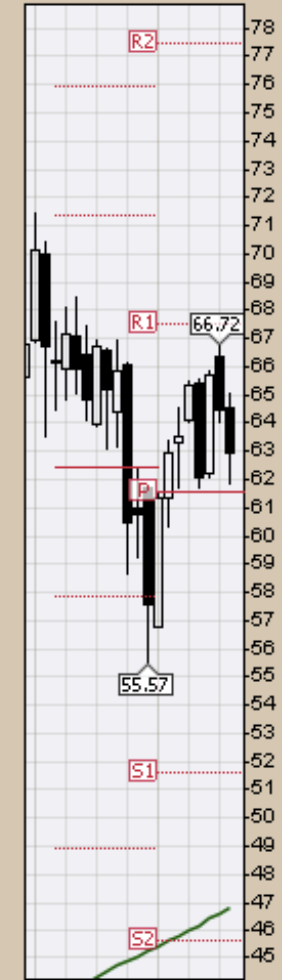
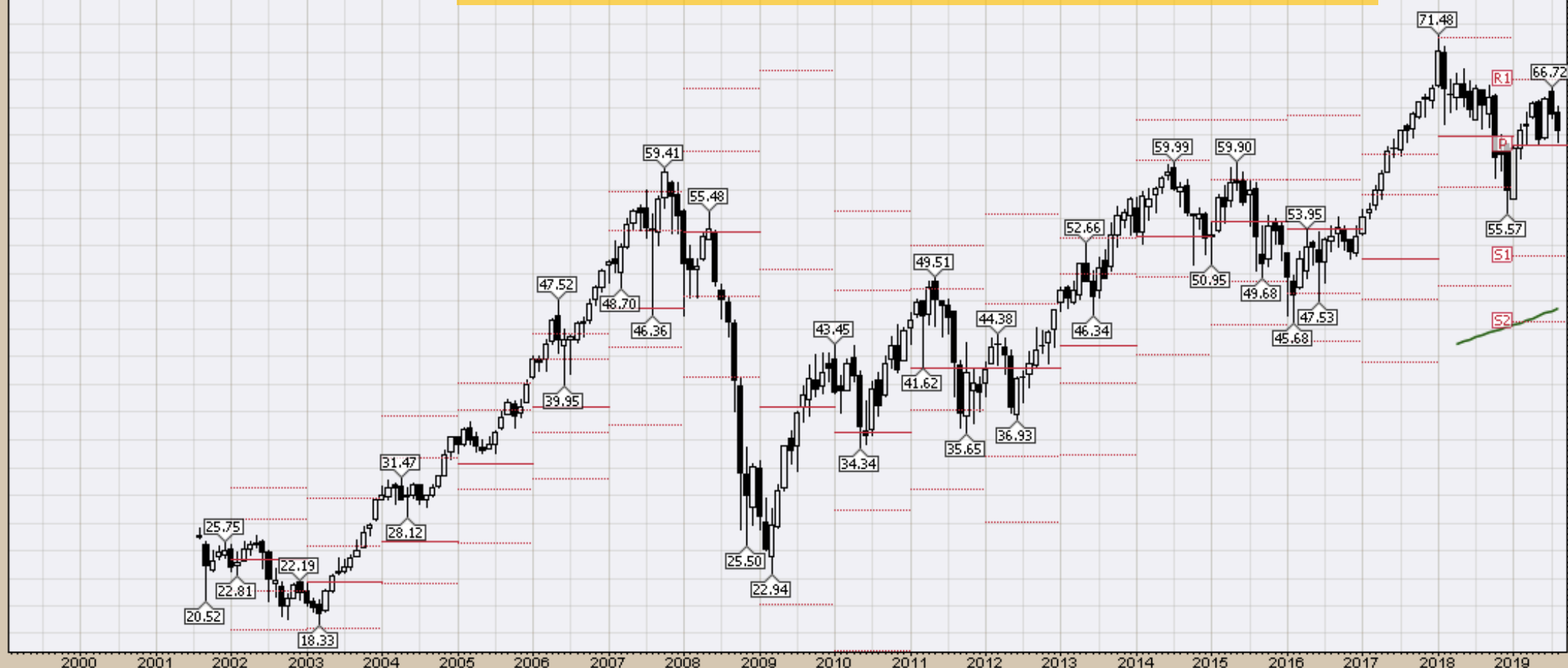
\$UTIL (Monthly) 826.30
MA(200) 491.78
PIVOTS 593.22, 653.07, 707.67, 767.52, 822.12



Select Global Equity Charts

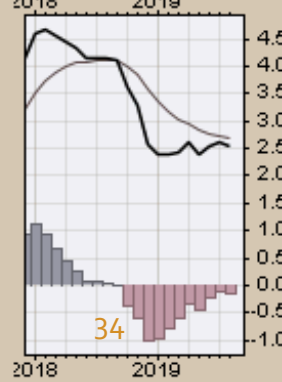
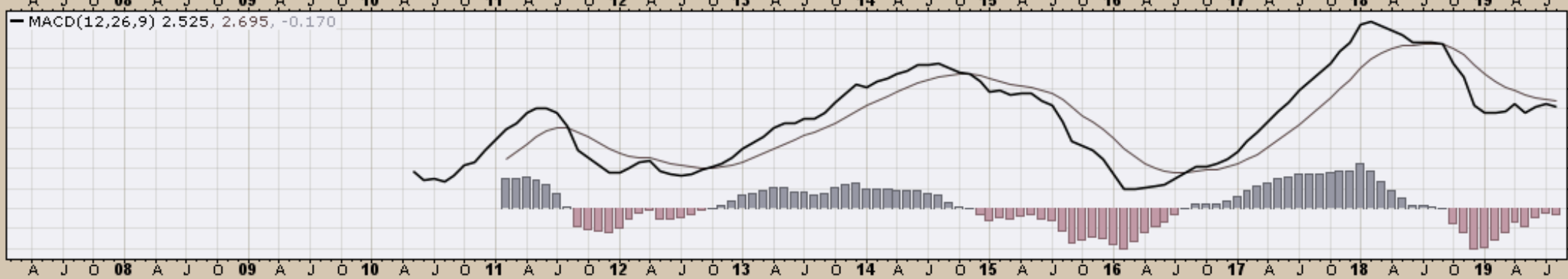
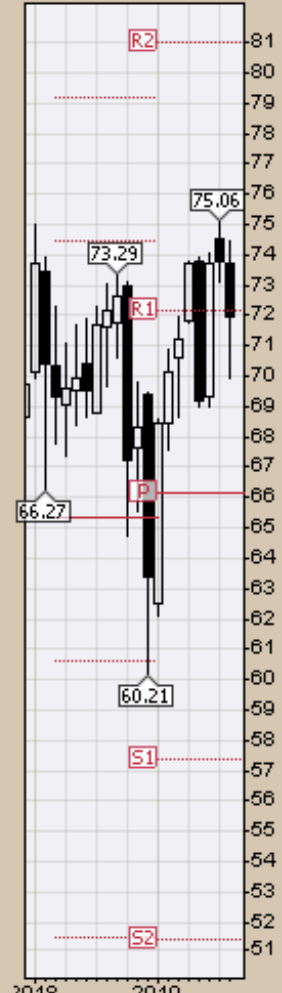
▲ EFA (Monthly) 62.94
— MA(200) 46.85
— PIVOTS 45.62, 51.58, 61.53, 67.49, 77.43

CHART A19A. WORLD LESS U.S. & CANADA, MONTHLY CHART



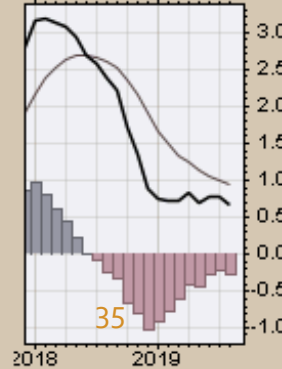
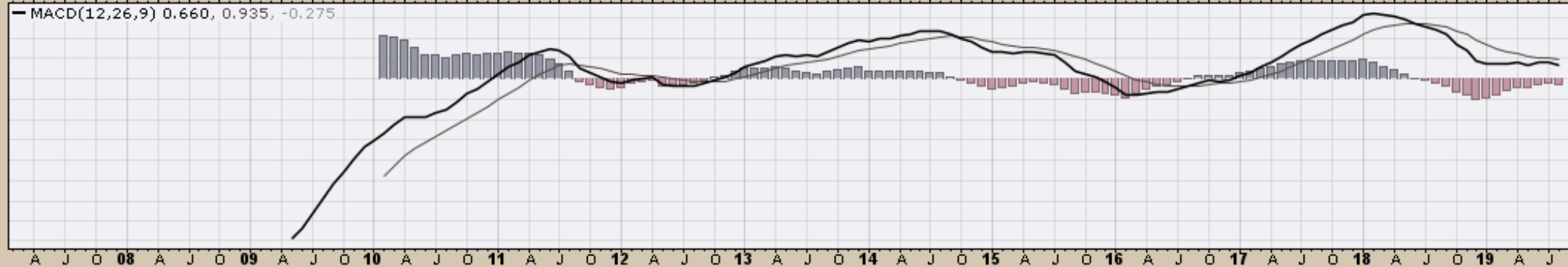
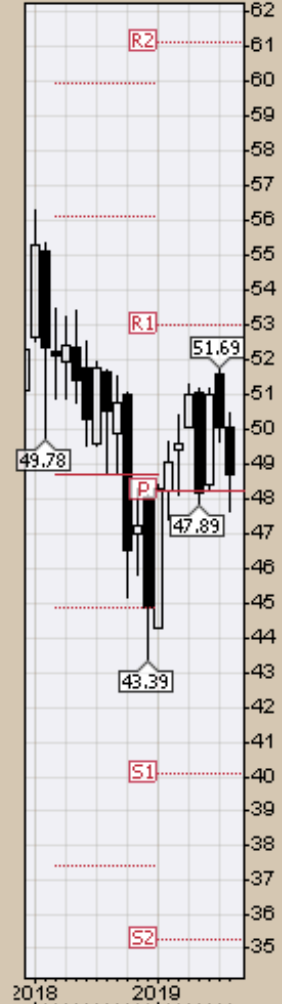
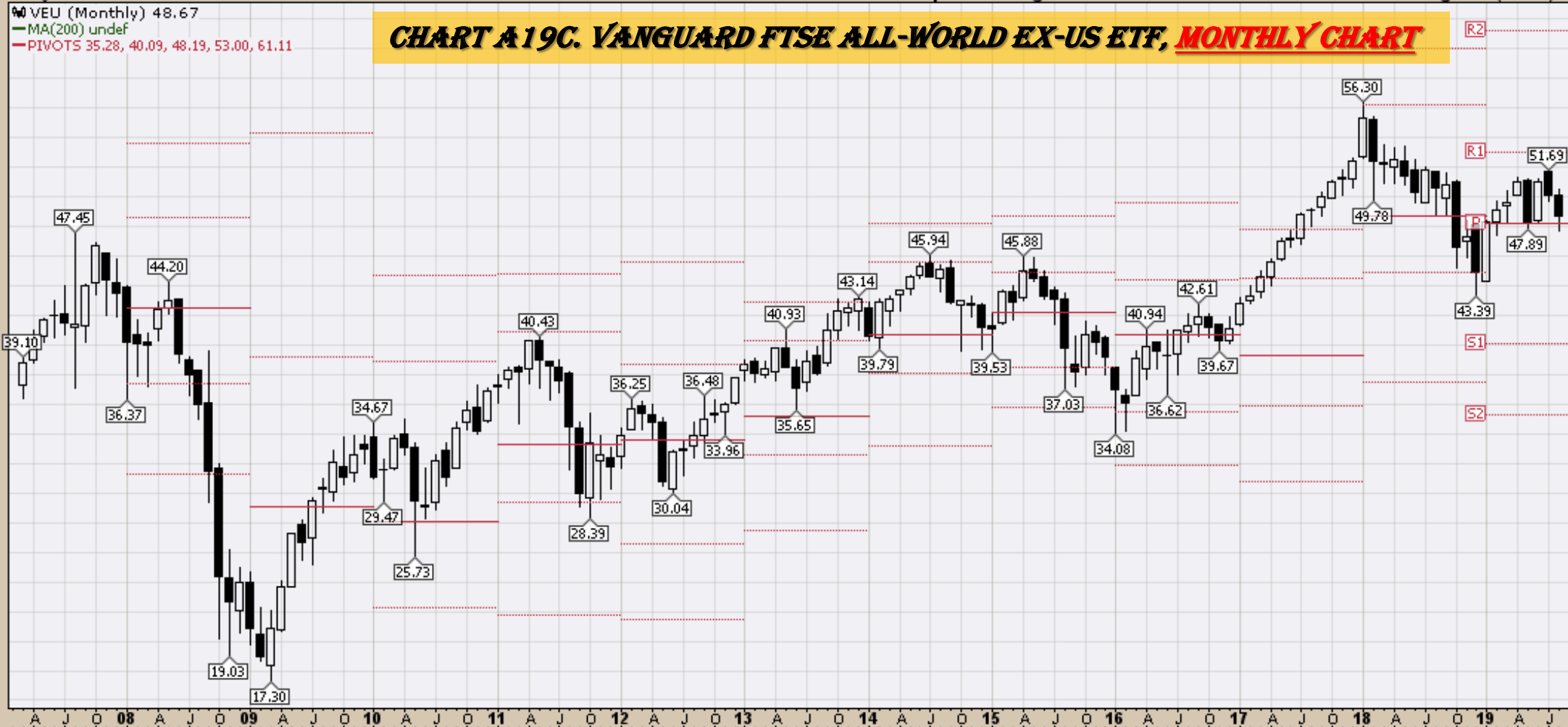
ACWI (Monthly) 71.98
MA(200) undef
PIVOTS 51.40, 57.38, 66.19, 72.17, 80.97

CHART A19B. BROAD RANGE OF INTERNATIONAL DEVELOPED AND EMERGING MARKET COMPANIES, MONTHLY CHART



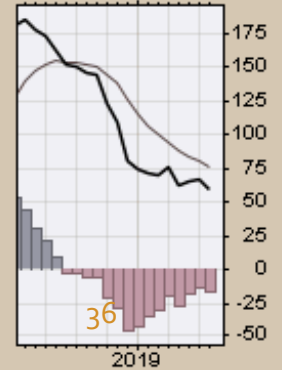
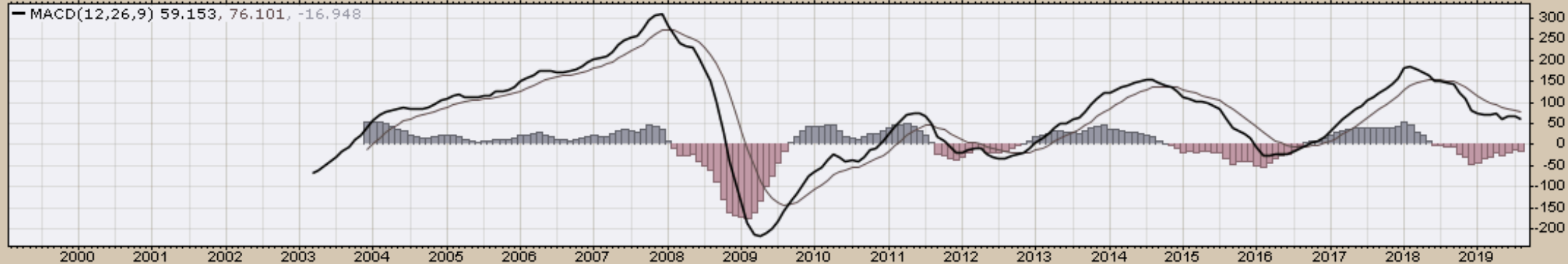
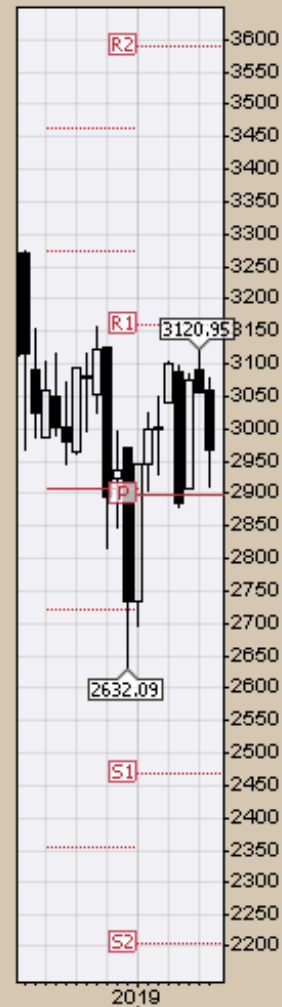
VEU (Monthly) 48.67
MA(200) undef
PIVOTS 35.28, 40.09, 48.19, 53.00, 61.11

CHART A19C. VANGUARD FTSE ALL-WORLD EX-US ETF, MONTHLY CHART



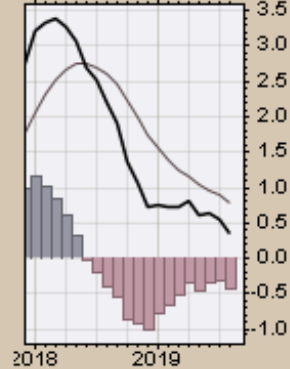
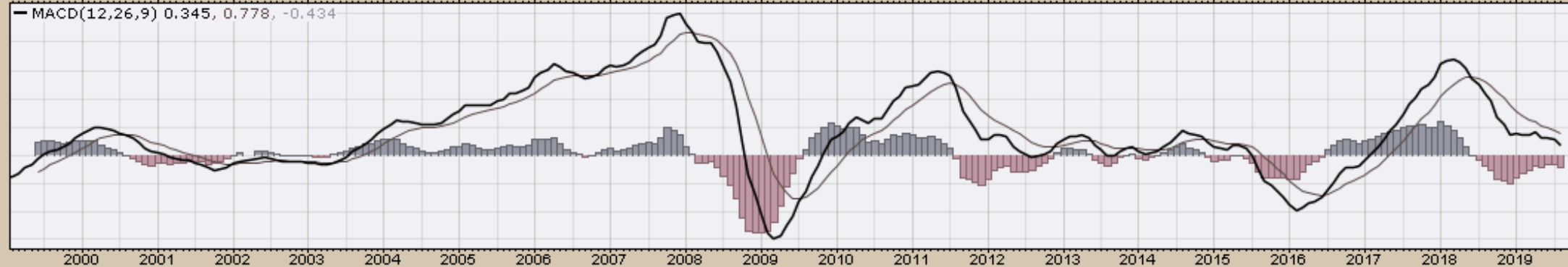
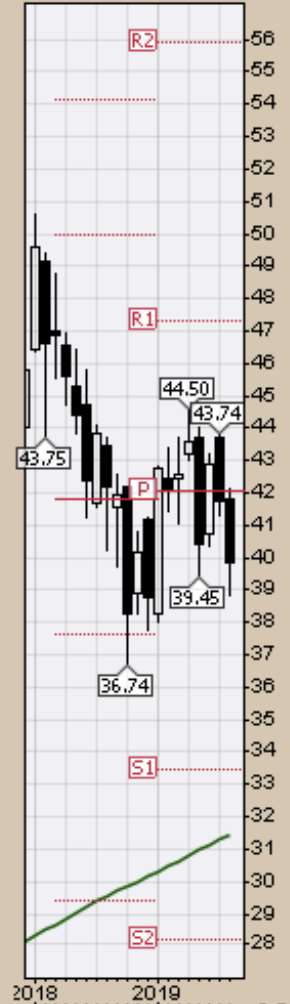
\$GDOW (Monthly) 2967.73
MA(200) 2115.60
PIVOTS 2205.09, 2469.75, 2896.74, 3161.40, 3588.39

CHART A19D. THE GLOBAL DOW (GDOW) IS A 150-STOCK INDEX OF CORPORATIONS FROM AROUND THE WORLD, CREATED BY DOW JONES & COMPANY. ONLY BLUE-CHIP STOCKS ARE INCLUDED IN THE INDEX, MONTHLY CHART



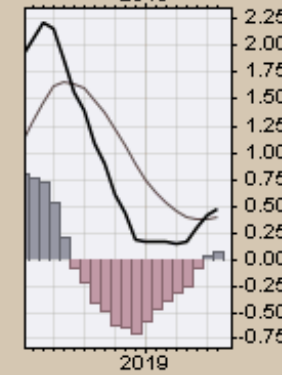
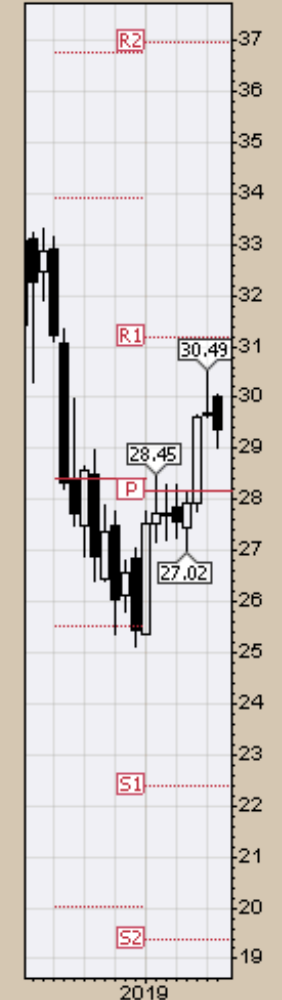
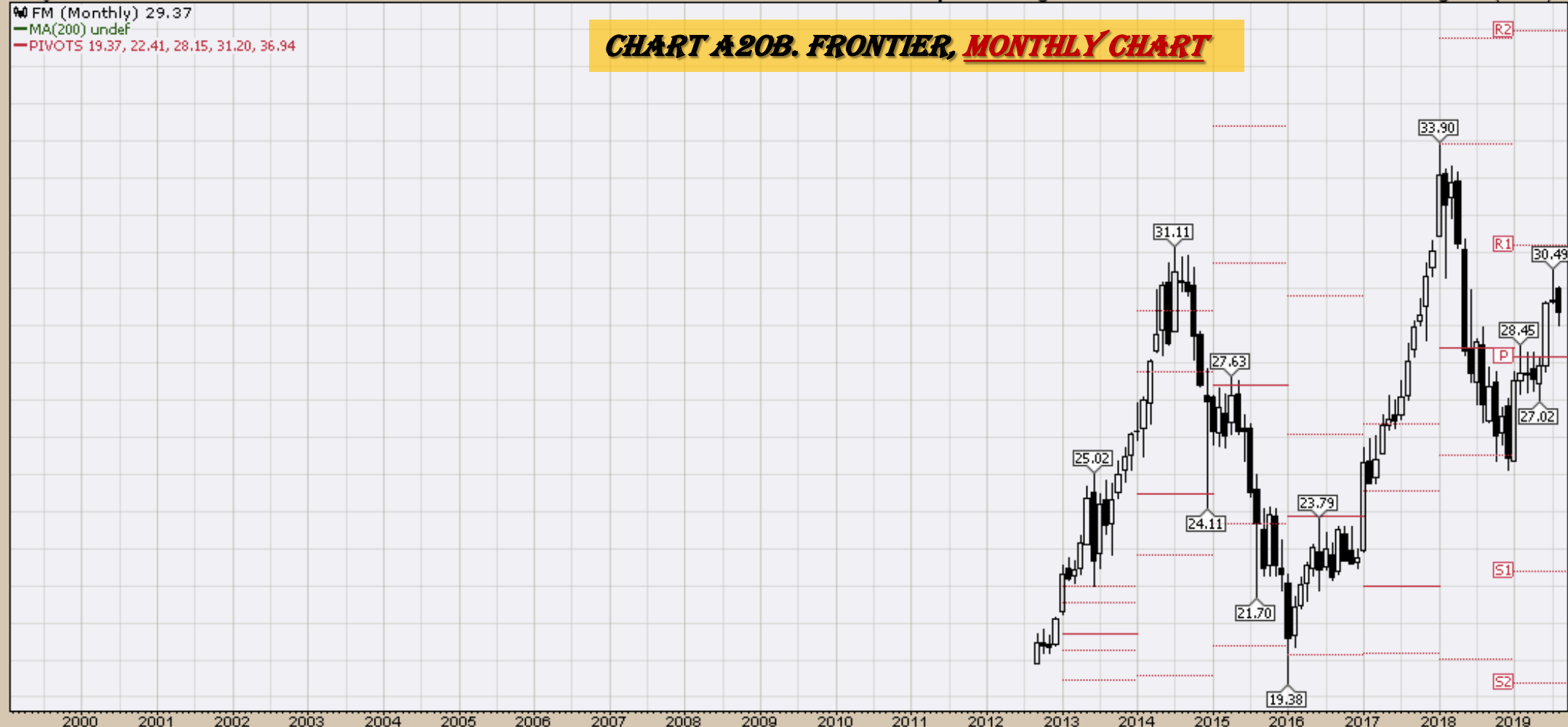
▲ EEM (Monthly) 39.87
— MA(200) 31.46
— PIVOTS 28.18, 33.47, 42.03, 47.32, 55.88

CHART A20A. EMERGING MARKETS, MONTHLY CHART



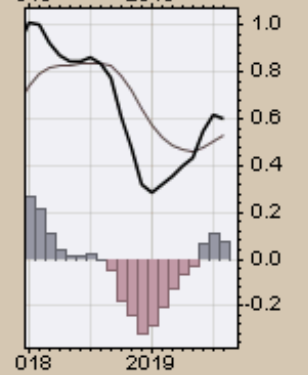
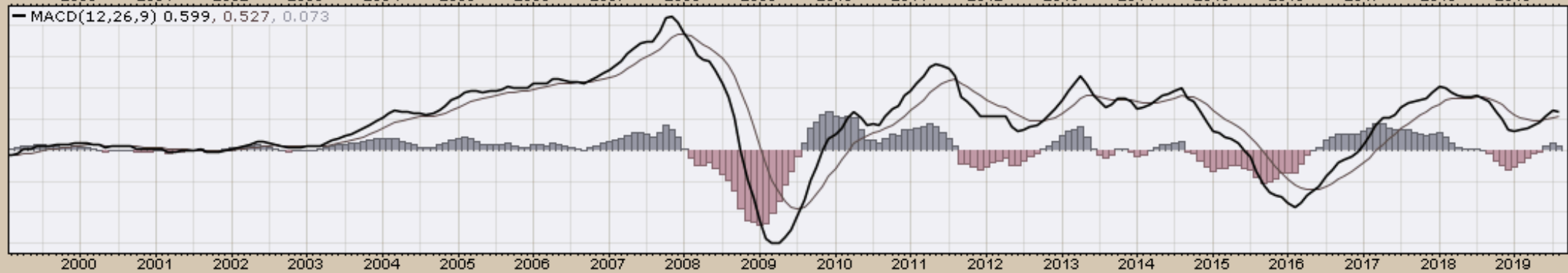
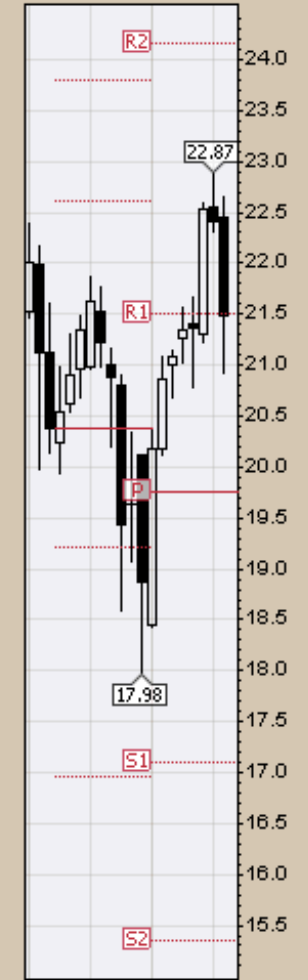
FM (Monthly) 29.37
MA(200) undef
PIVOTS 19.37, 22.41, 28.15, 31.20, 36.94

CHART A20B. FRONTIER, MONTHLY CHART



▲ EWA (Monthly) 21.49
— MA(200) 14.86
— PIVOTS 15.34, 17.10, 19.75, 21.51, 24.15

CHART A21. AUSTRALIA, MONTHLY CHART

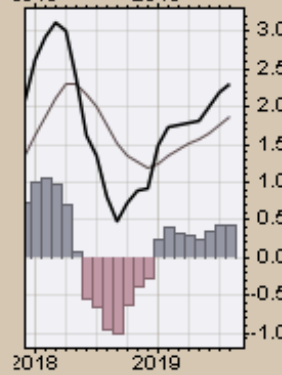
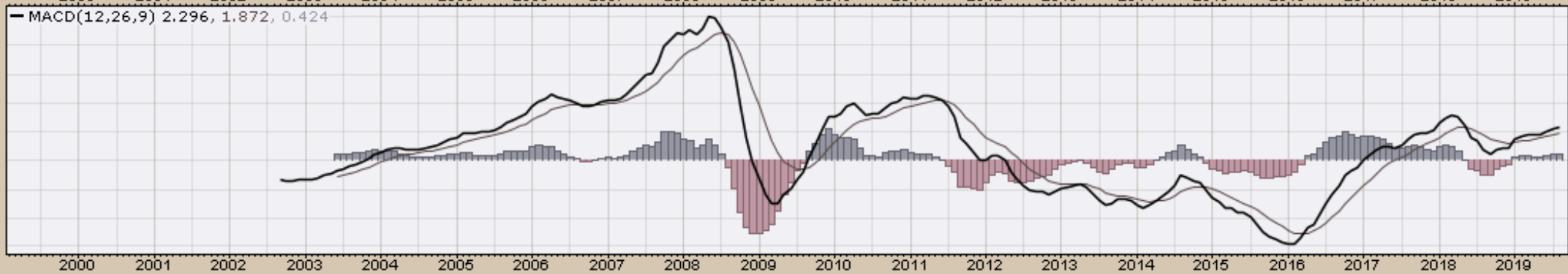
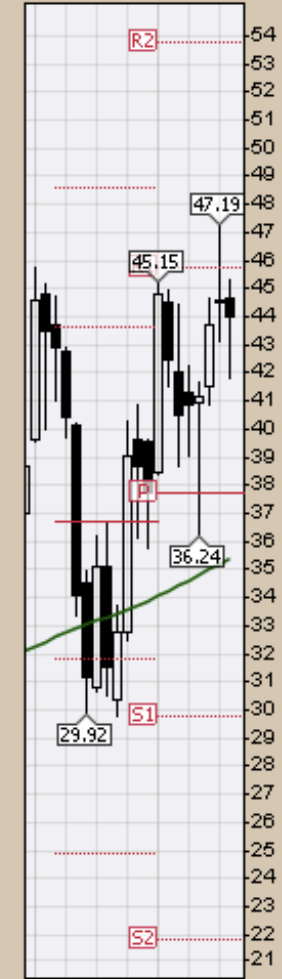


9-Aug-2019

Open 44.65 High 45.28 Low 41.84 Close 43.99 Volume 191.0M Chg -0.51 (-1.15%)

CHART A22. BRAZIL, MONTHLY CHART

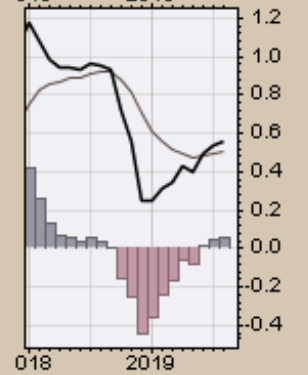
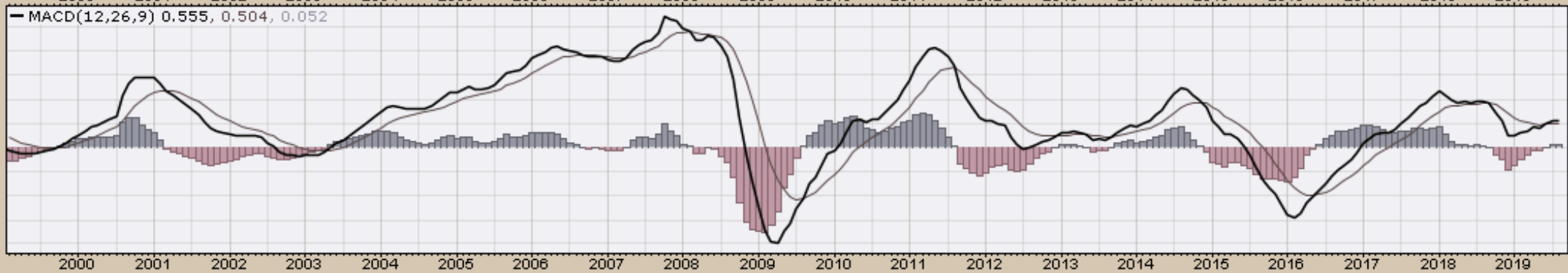
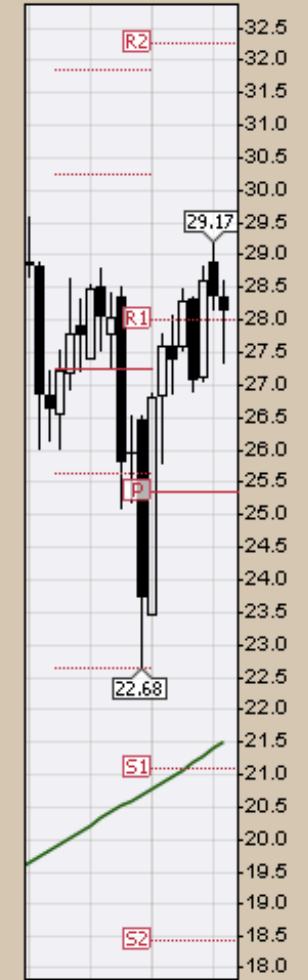
EWZ (Monthly) 43.99
MA(200) 35.40
PIVOTS 21.80, 29.76, 37.77, 45.73, 53.73



Open 28.35 High 28.59 Low 27.35 Close 28.17 Volume 23.3M Chg -0.22 (-0.77%)

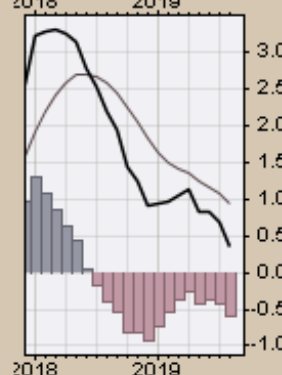
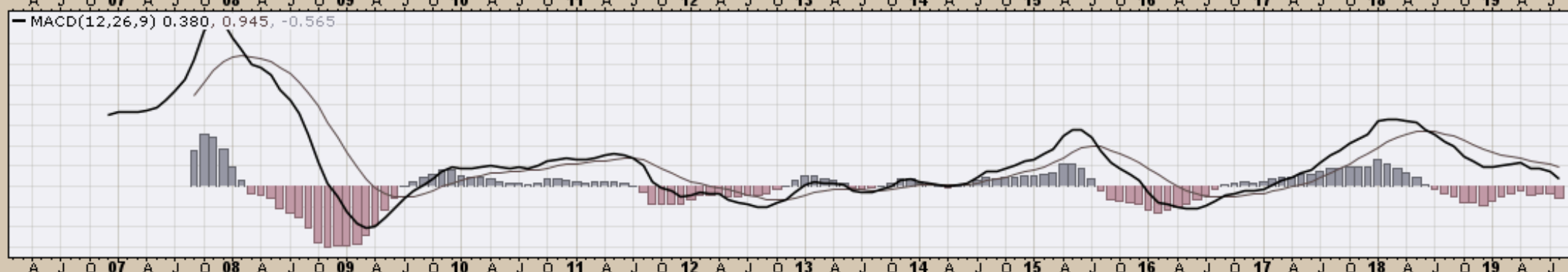
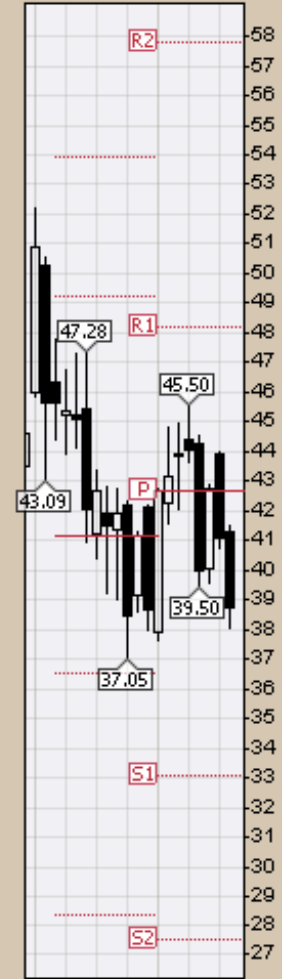
EW (Monthly) 28.17
MA(200) 21.51
PIVOTS 18.43, 21.09, 25.34, 28.00, 32.25

CHART A23. CANADA, MONTHLY CHART



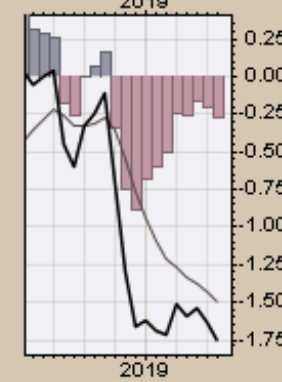
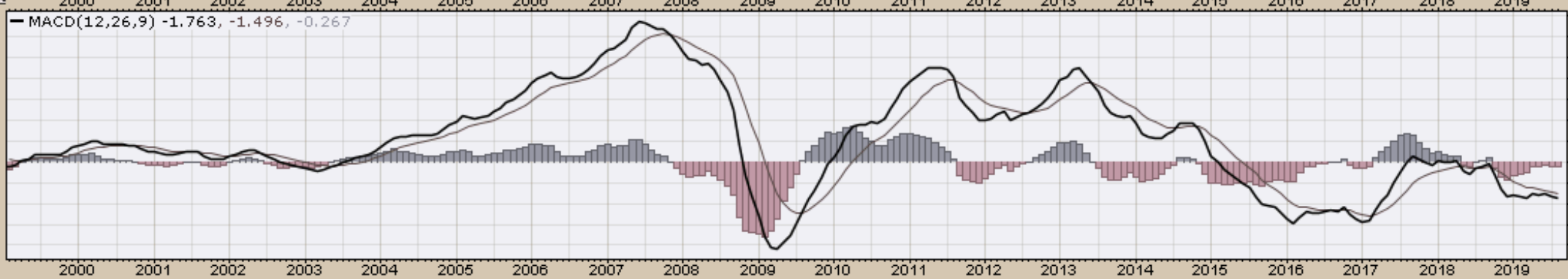
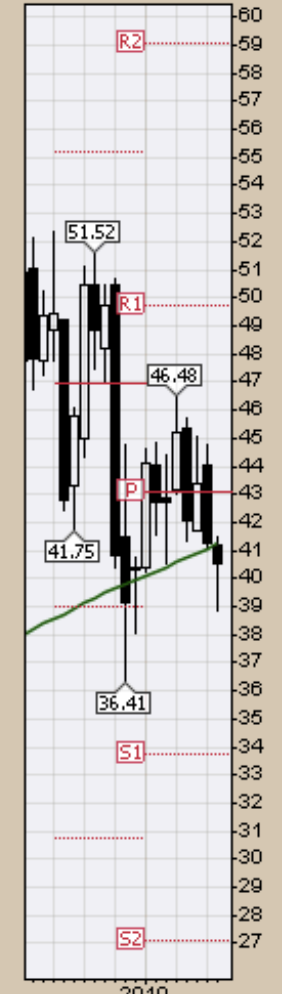
FXI (Monthly) 38.74
MA(200) undef
PIVOTS 27.51, 33.10, 42.64, 48.23, 57.76

CHART A24. CHINA, MONTHLY CHART



EW (Monthly) 40.51
MA(200) 41.23
PIVOTS 27.08, 33.72, 43.05, 49.70, 59.03

CHART A25. MEXICO, MONTHLY CHART



EWJ (Monthly) 53.57
MA(200) 41.06
PIVOTS 39.38, 44.80, 53.98, 59.40, 68.57

CHART A26. JAPAN, MONTHLY CHART

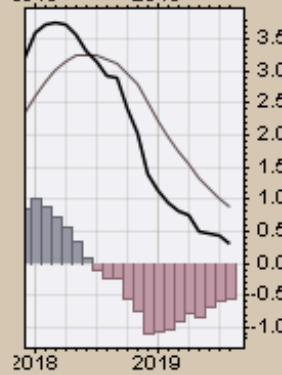
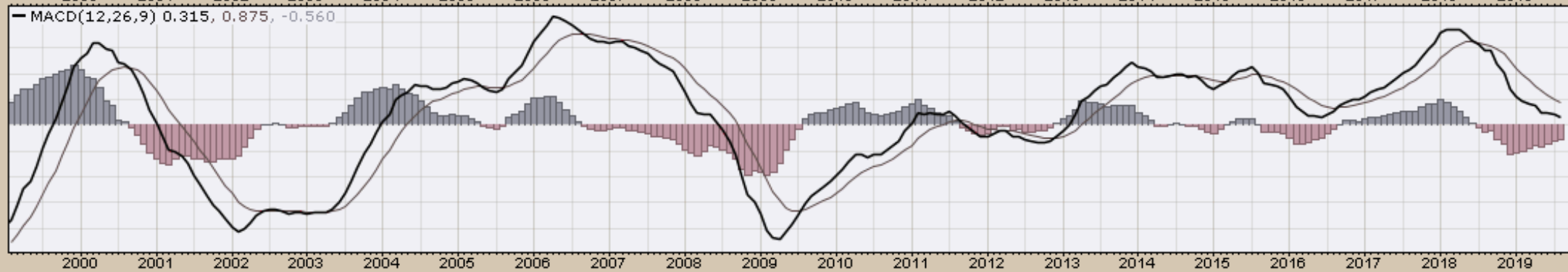
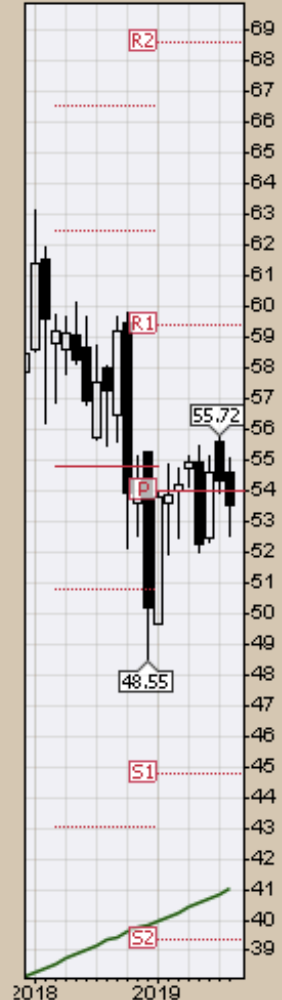
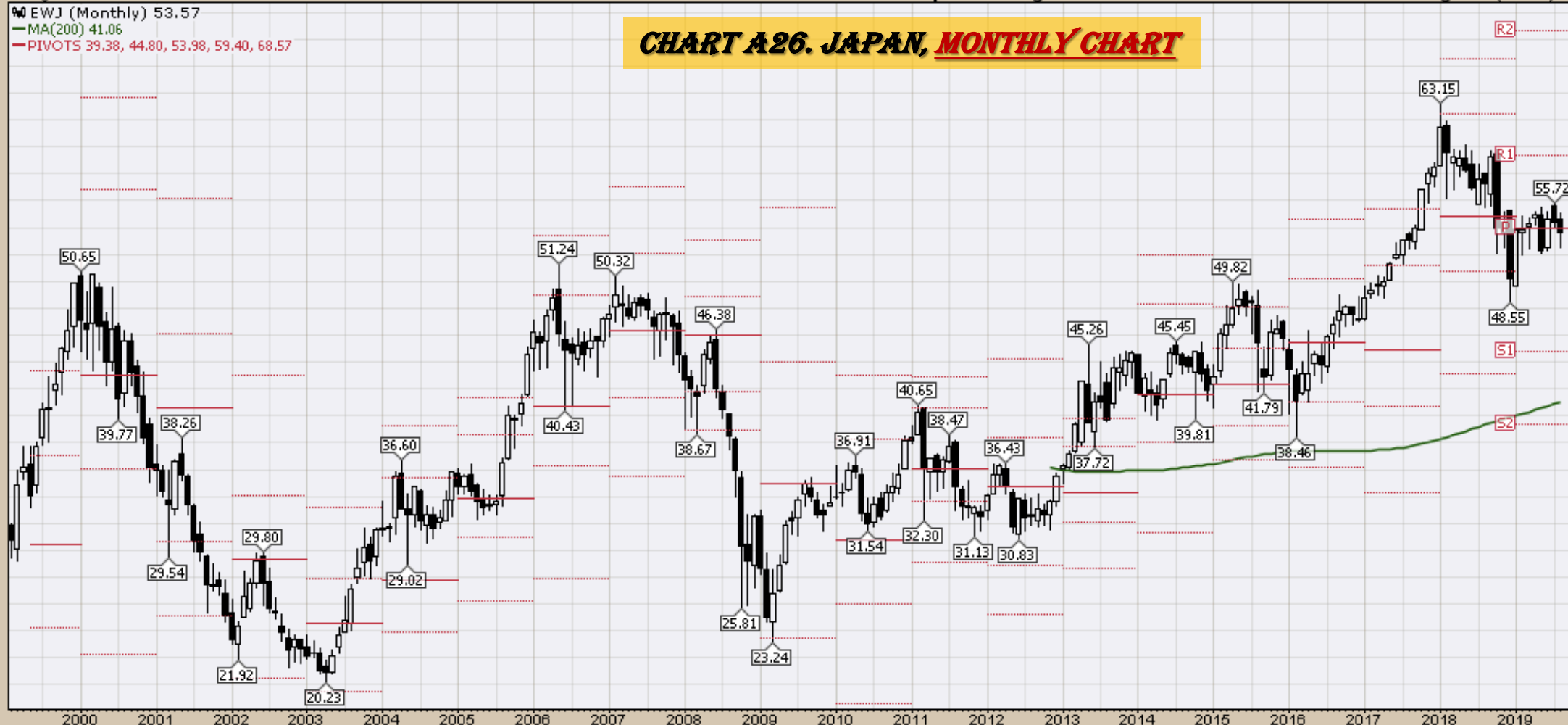
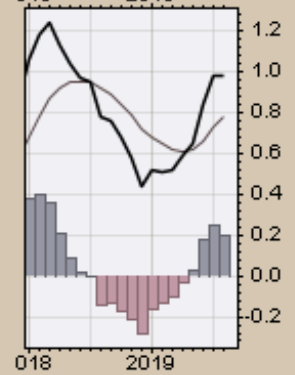
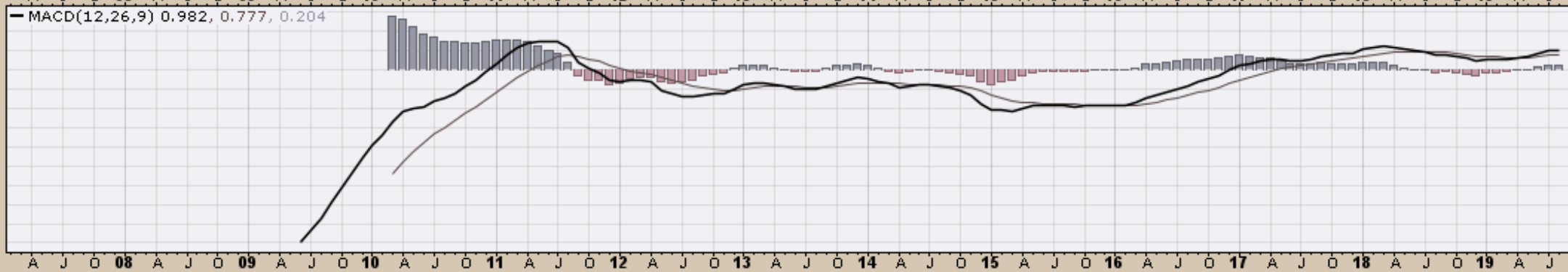
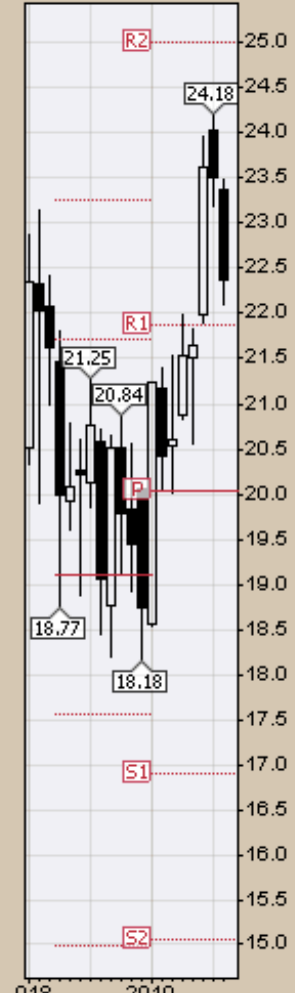
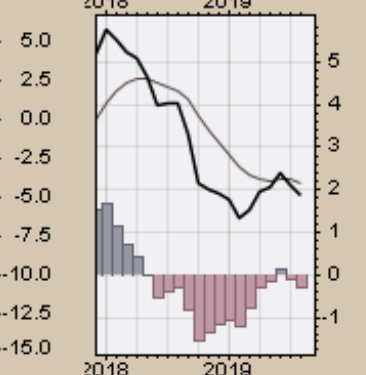
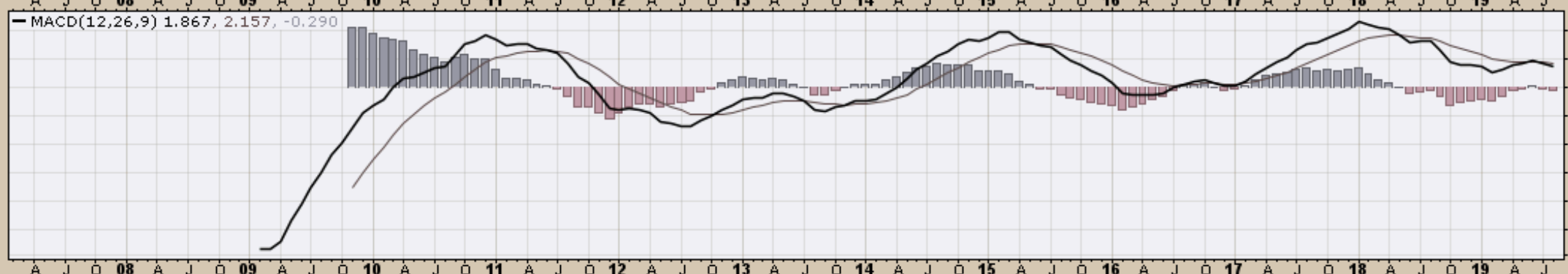
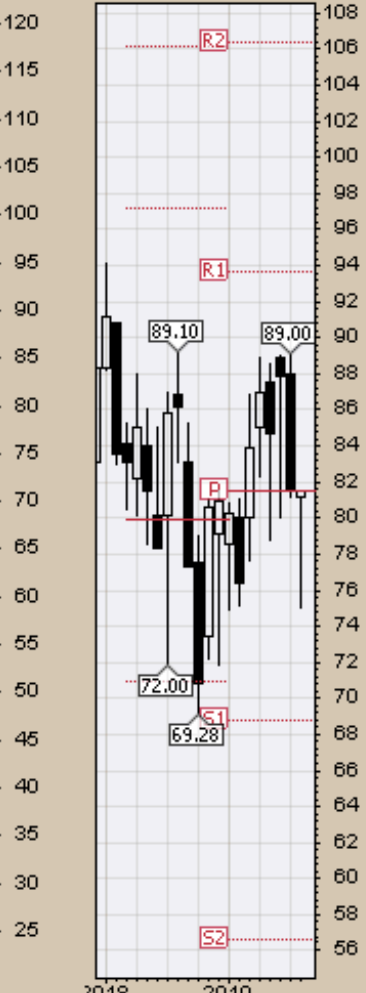
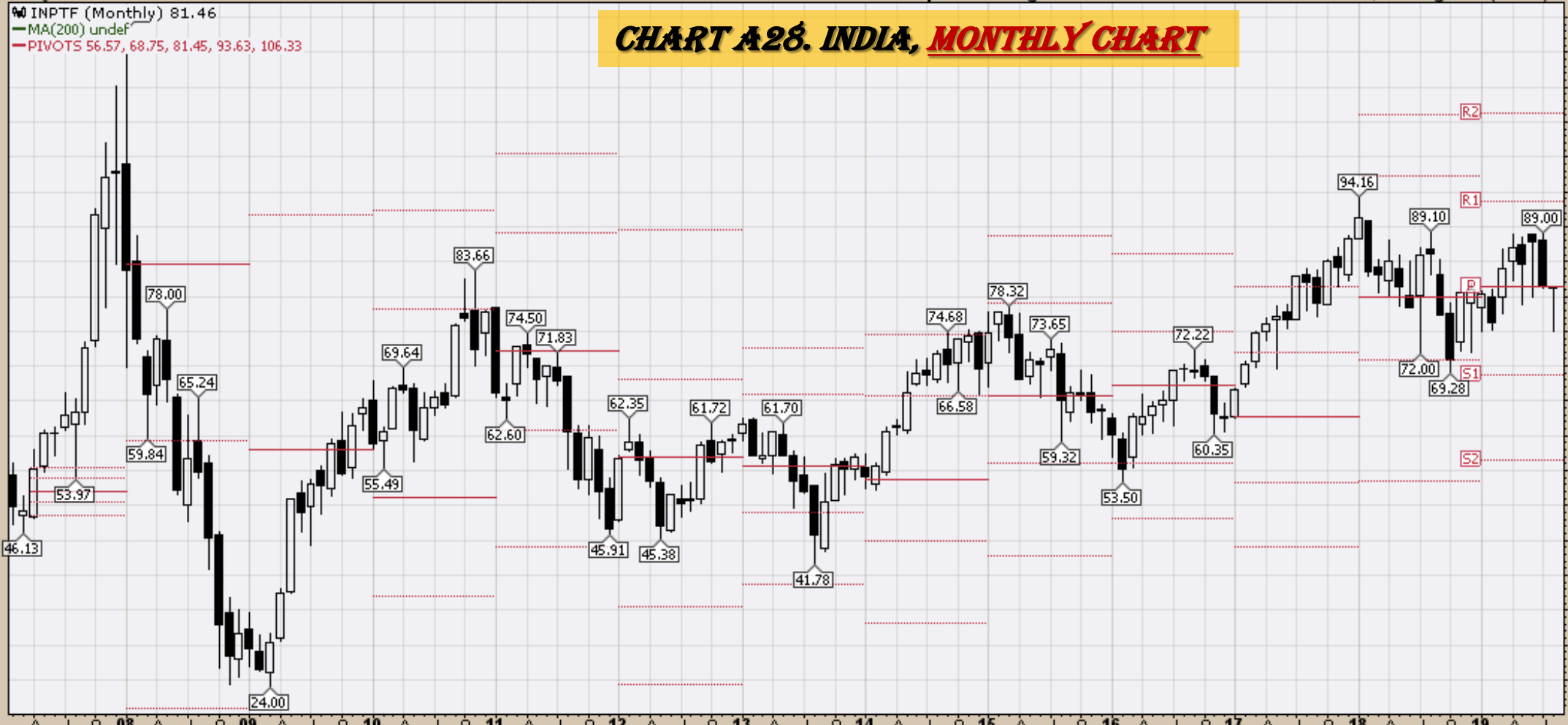


CHART A27. RUSSIA, MONTHLY CHART



INPTF (Monthly) 81.46
MA(200) undef
PIVOTS 56.57, 68.75, 81.45, 93.63, 106.33

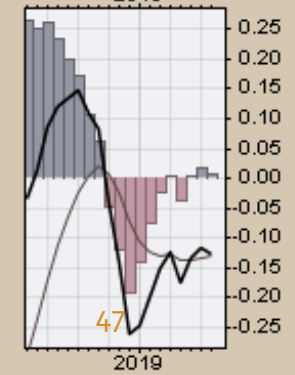
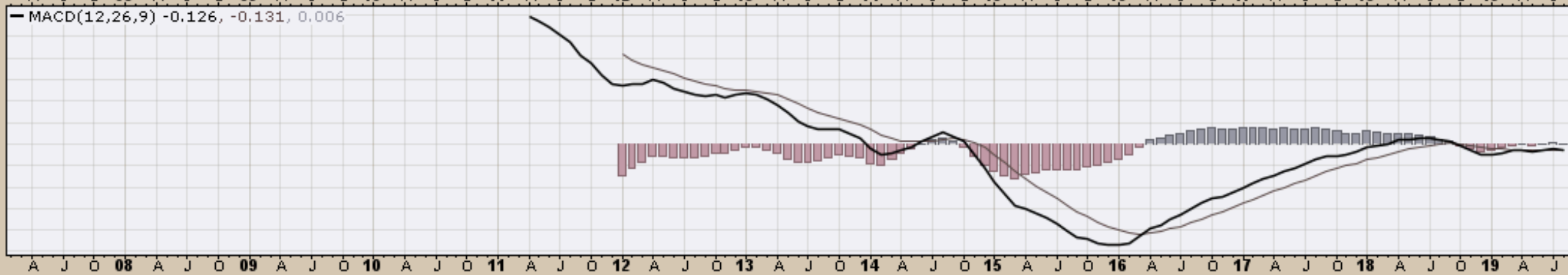
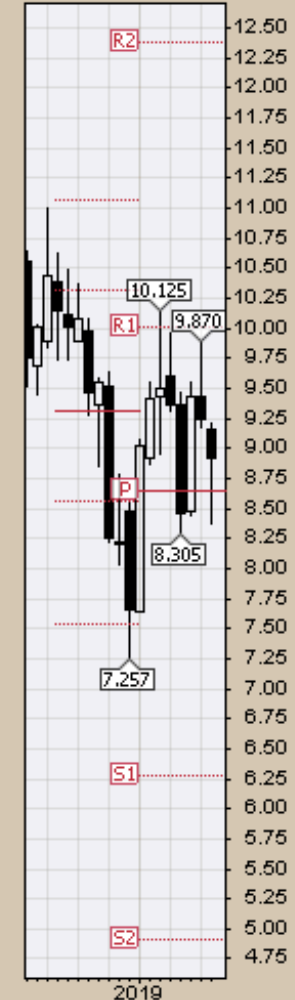
CHART A28. INDIA, MONTHLY CHART



9-Aug-2019

Open 9.15 High 9.20 Low 8.38 Close 8.92 Volume 430.8K Chg -0.32 (-3.46%)

▲ GXG (Monthly) 8.92
— MA(200) undef
— PIVOTS 4.90, 6.28, 8.64, 10.02, 12.37



▲ CMF(20) 0.115 (31 Jul)

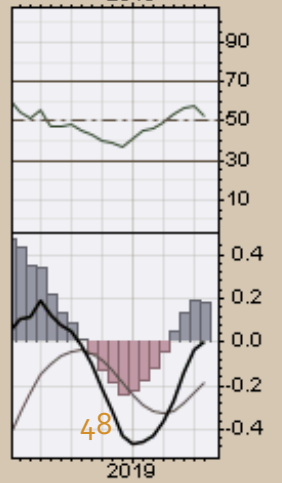
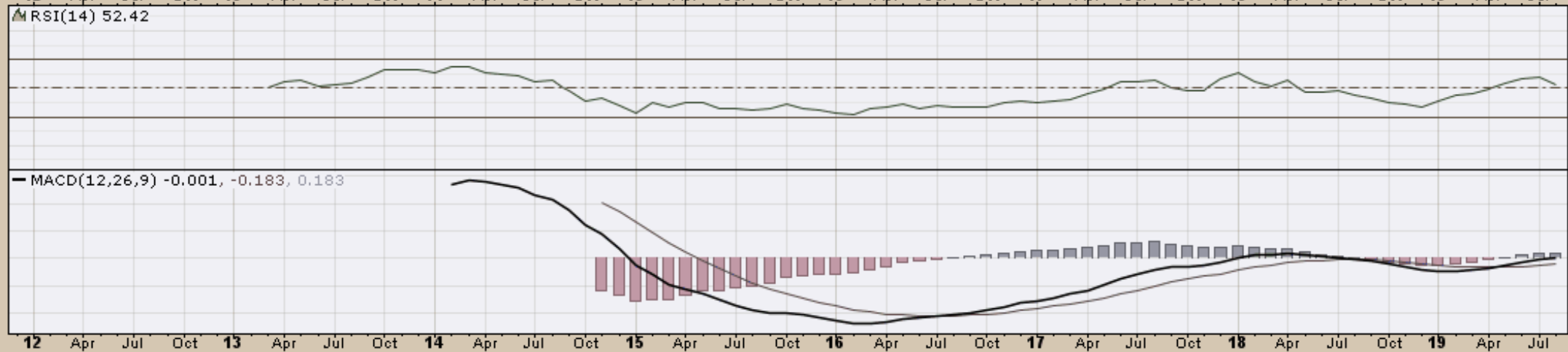
▲ GREK (Monthly) 9.05
— BB(20,2,0) 6.61 - 8.73 - 10.86
— PIVOTS 3.68, 5.27, 8.25, 9.85, 12.83

CHART A30. GREECE MONTHLY CHART



▲ RSI(14) 52.42

— MACD(12,26,9) -0.001, -0.183, 0.183

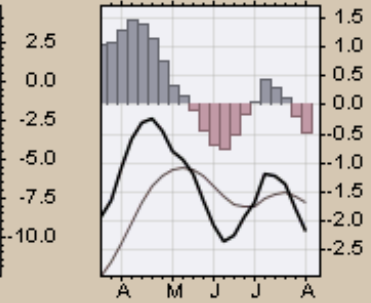
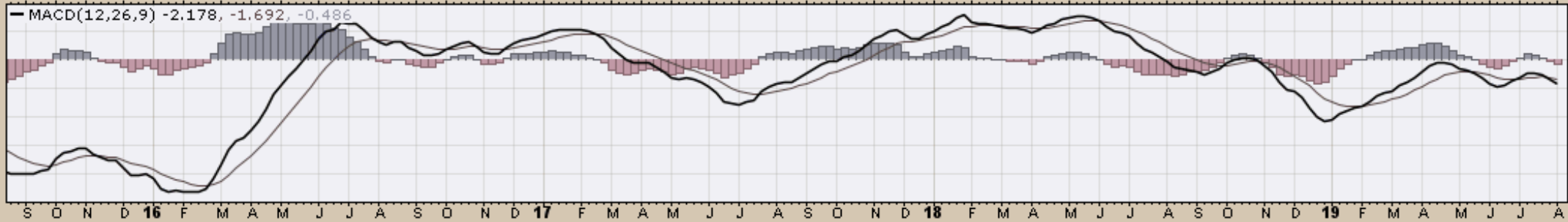
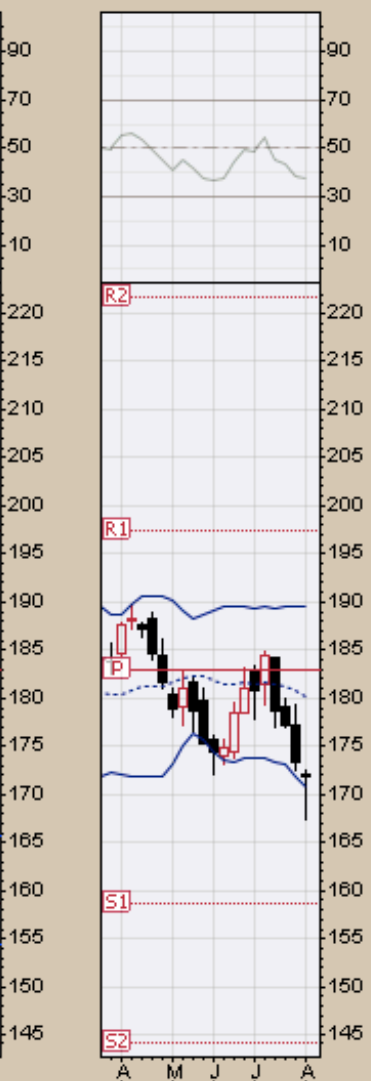


CRB Commodity Index
Weekly, Daily, Monthly and Quarterly Charts

RSI(14) 37.47

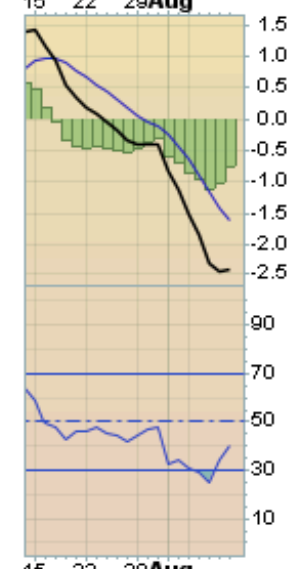
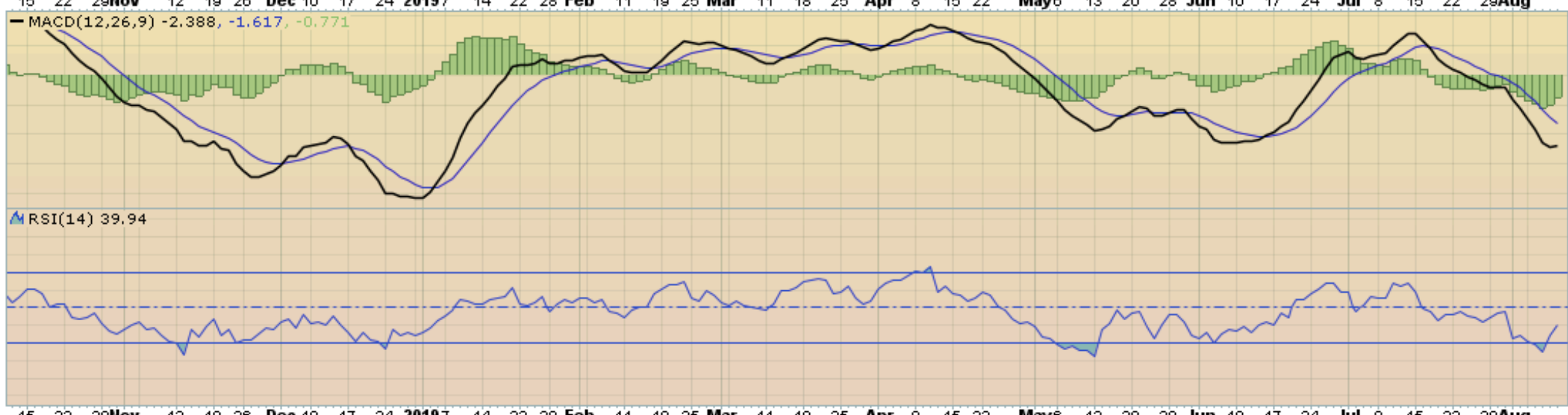
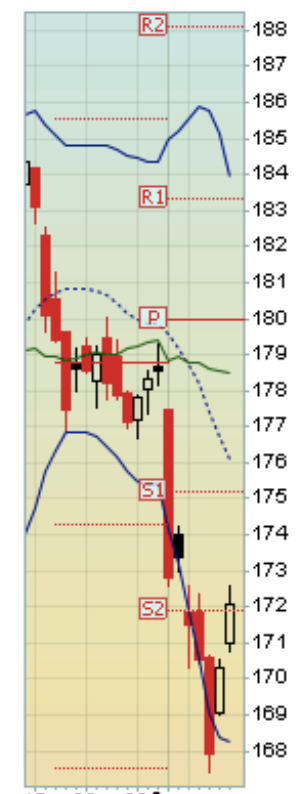
\$CRB (Weekly) 172.09
BB(20,2,0) 170.72 - 180.12 - 189.52
PIVOTS 144.10, 158.73, 182.84, 197.47, 221.58
Volume undef

CHART B1. \$CRB REUTERS/JEFFERIES CRB INDEX WEEKLY CHART



Reuters/Jefferies CRB Index (EOD) (Daily) 172.09
 BB(20,2.0) 168.28 - 176.13 - 183.98
 PIVOTS 171.92, 175.22, 180.00, 183.30, 188.08
 CHANDLR(22,3.0) 178.51
 Volume under

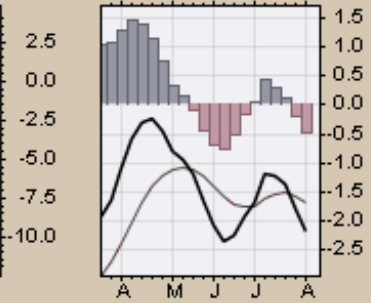
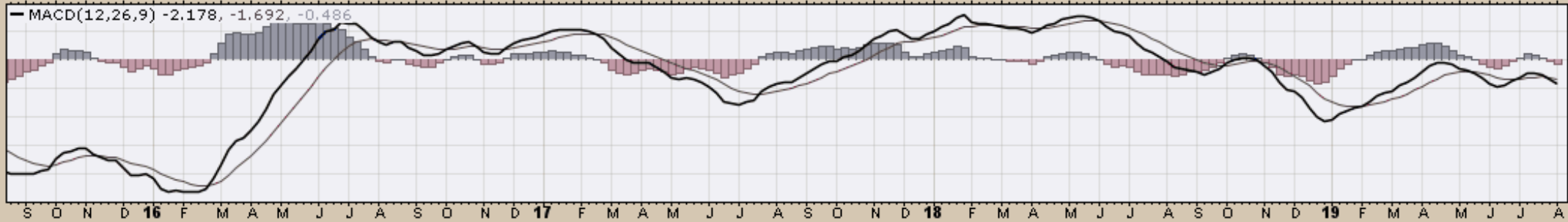
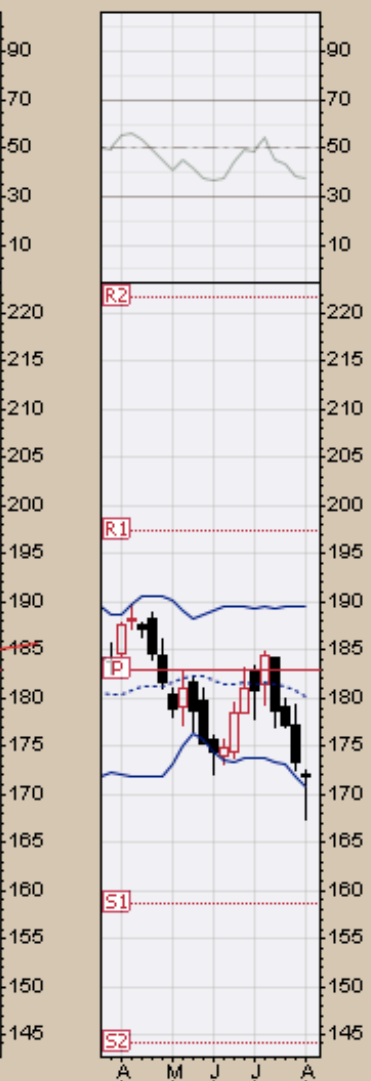
CHART B2. \$CRB REUTERS/JEFFERIES CRB INDEX
DAILY CHART



RSI(14) 37.47

CHART B3. \$CRB REUTERS/JEFFERIES CRB INDEX MONTHLY CHART

\$CRB (Weekly) 172.09
BB(20,2,0) 170.72 - 180.12 - 189.52
PIVOTS 144.10, 158.73, 182.84, 197.47, 221.58
Volume undef



9-Aug-2019

Open 182.89 High 184.77 Low 167.38 Close 172.09 Chg -8.95 (-4.94%)

MACD(12,26,9) -22.367, -24.154, 1.787

% \$CRB (Quarterly) 172.09
MA(50) 258.81
MA(200) 232.75
EMA(20) 201.25

CHART B4. \$CRB REUTERS/JEFFERIES CRB INDEX
QUARTERLY CHART



\$CRB (Monthly) 172.09
MA(200) 268.45
Volume undef

CHART B5. \$CRB REUTERS/JEFFERIES CRB INDEX MONTHLY CHART

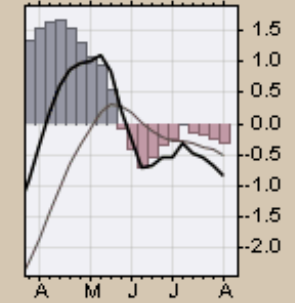
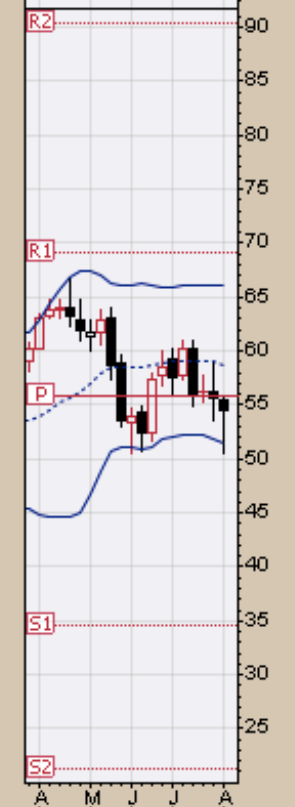
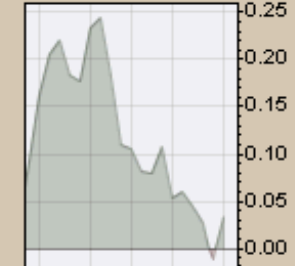


\$WTIC Light Crude Oil
Weekly, Daily, Monthly and Quarterly Charts

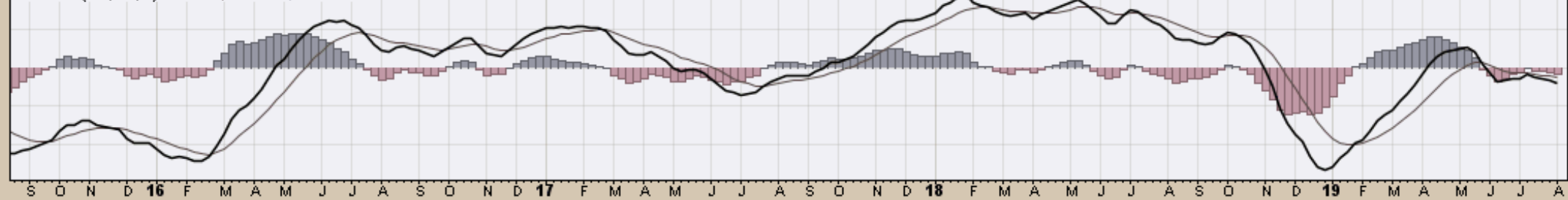
▲ CMF(20) 0.033

▲ \$WTIC (Weekly) 54.50
— BB(20,2,0) 51.42 - 58.77 - 66.11
— PIVOTS 21.20, 34.58, 55.74, 69.12, 90.28

CHART B6. \$WTIC, WEEKLY CHART



— MACD(12,26,9) -0.830, -0.507, -0.323



9-Aug-2019

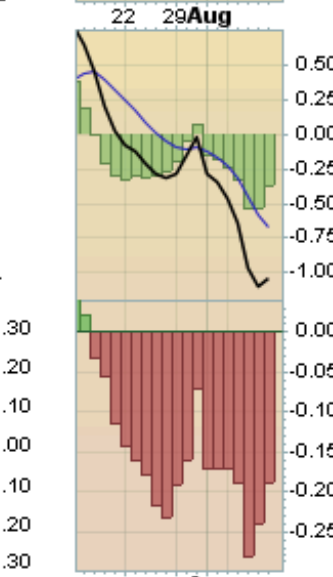
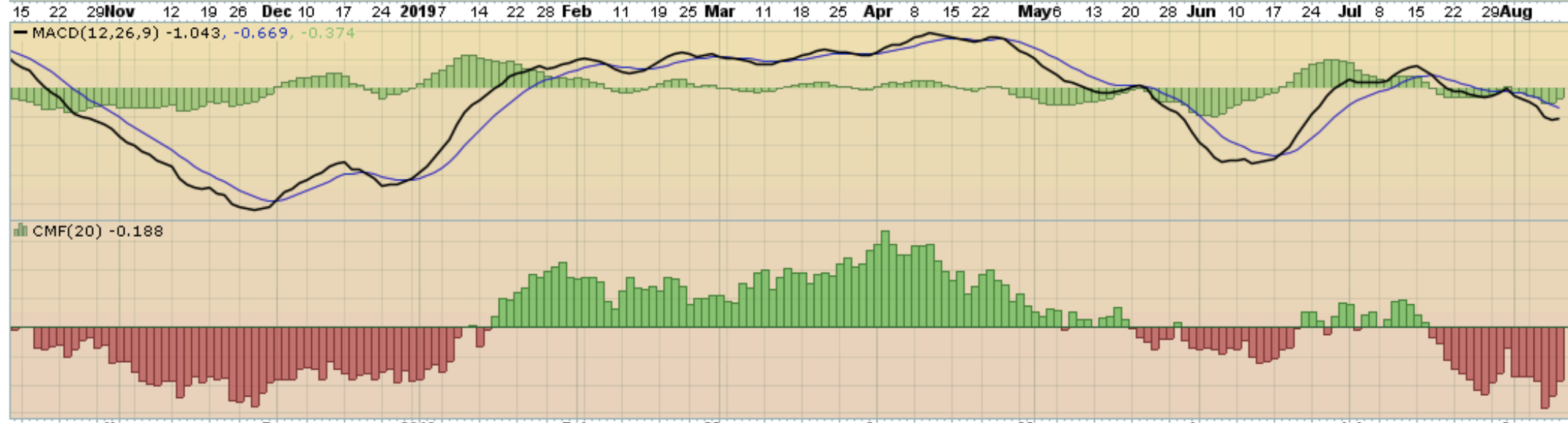
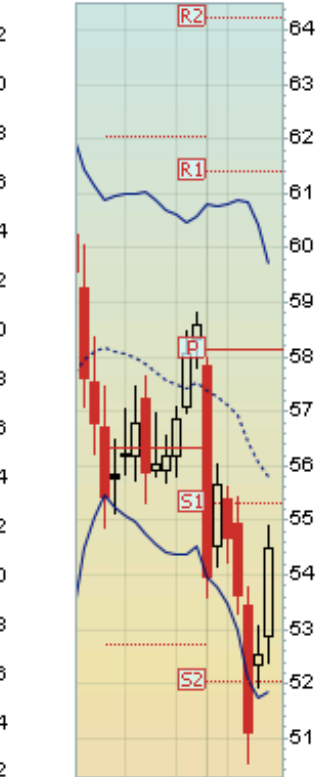
Open 52.88 High 54.92 Low 52.37 Close 54.50 Volume 71.5M Chg +1.96 (+3.73%)

Light Crude Oil - Continuous Contract (EOD) (Daily) 54.50

BB(20,2,0) 51.84 - 55.79 - 59.74

PIVOTS 52.03, 55.31, 58.12, 61.40, 64.21

CHART B7. \$WTIC, DAILY CHART



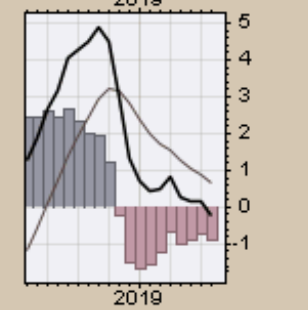
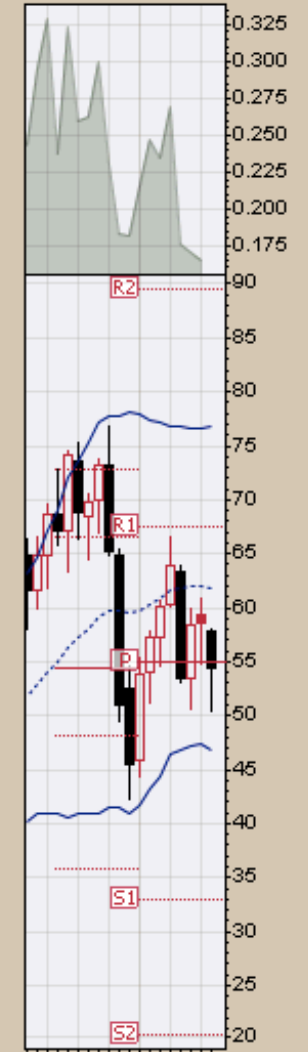
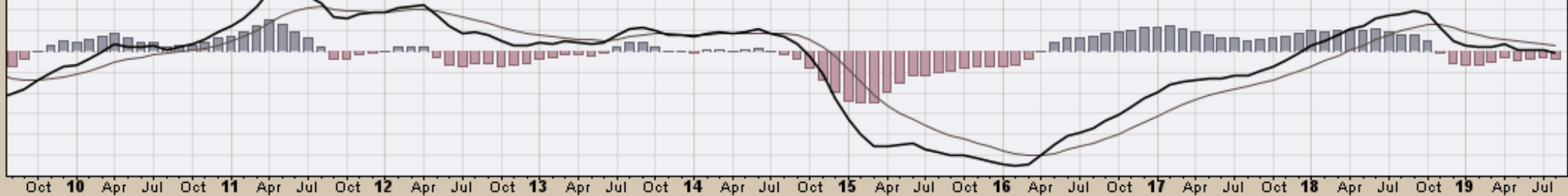
▲ CMF(20) 0.165 (31 Jul)

CHART B8. \$WTIC, MONTHLY CHART

▲ \$WTIC (Monthly) 54.50
— BB(20,2,0) 46.75 - 61.73 - 76.72
— PIVOTS 20.35, 32.88, 54.89, 67.42, 89.43



— MACD(12,26,9) -0.217, 0.656, -0.872



— \$WTIC (Monthly) 54.50
— MA(200) 68.53

CHART B9A. \$WTIC, MONTHLY CHART



MACD(12,26,9) -4.075, -5.046, 0.971

\$WTIC (Quarterly) 54.50

MA(50) 75.02

MA(200) undef

EMA(20) 60.94

CHART B9B. \$WTIC, QUARTERLY CHART



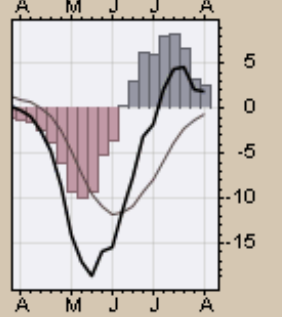
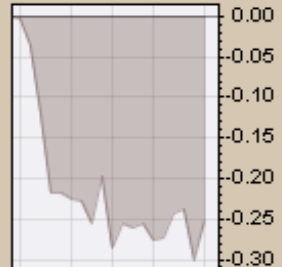
Soybeans

Weekly, Daily, Monthly and Quarterly Charts

▲ CMF(20) -0.253

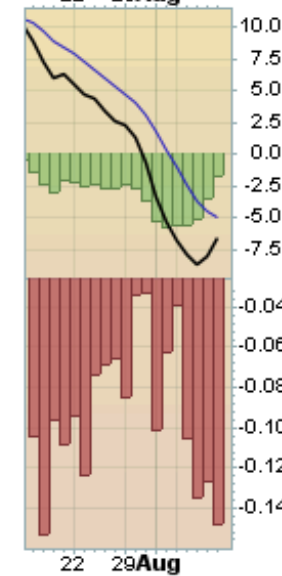
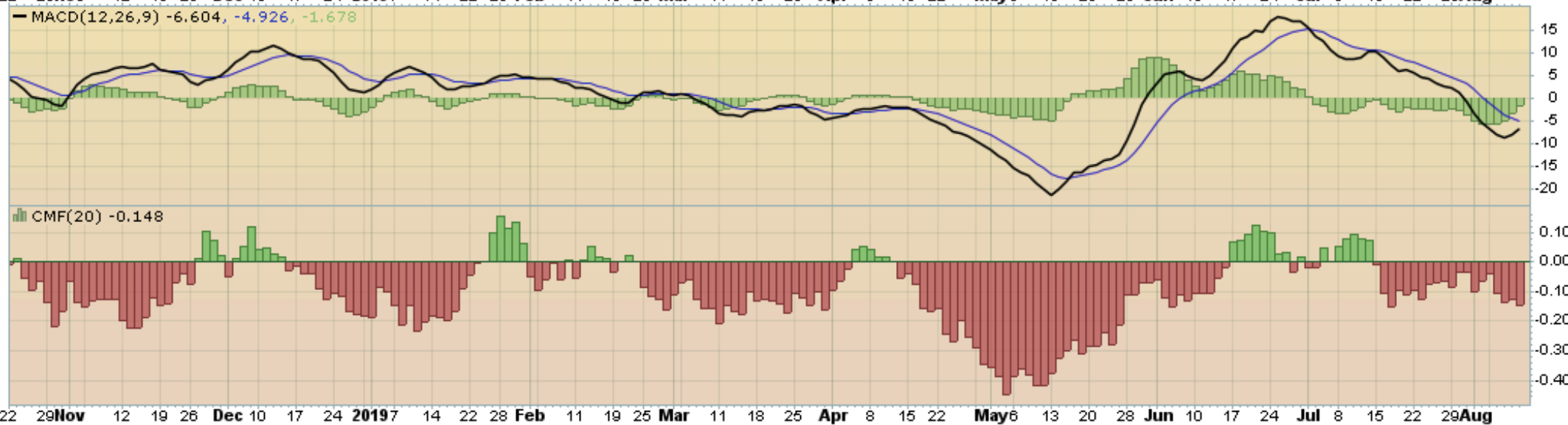
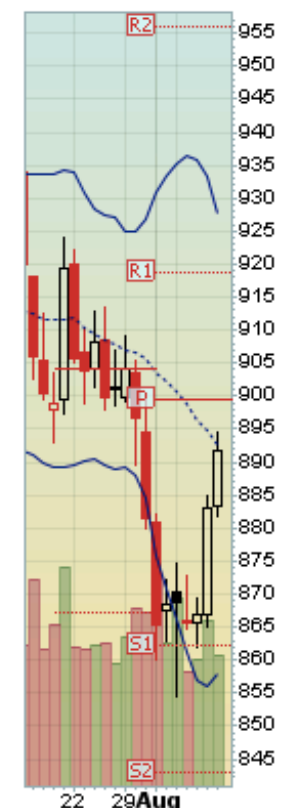
▲ \$SOYB (Weekly) 891.75
— BB(20,2,0) 814.09 - 879.60 - 945.11
— PIVOTS 668.50, 795.00, 938.75, 1065.25, 1209.00

CHART B10. SOYBEANS, WEEKLY CHART



SOYB Soybeans - Continuous Contract (EOD) (Daily) 891.75
BB(20,2,0) 857.95 - 892.78 - 927.60
PIVOTS 842.83, 862.17, 899.33, 918.67, 955.83
Volume 74,814

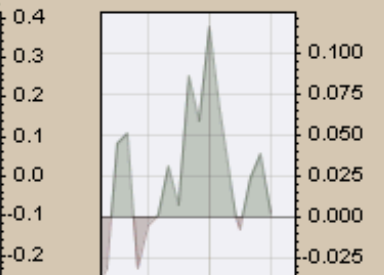
CHART B11. SOYBEANS, DAILY CHART



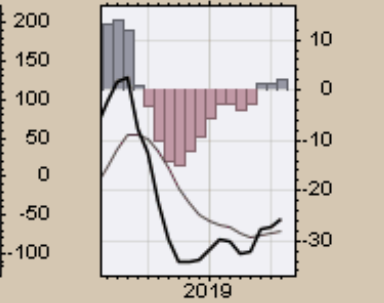
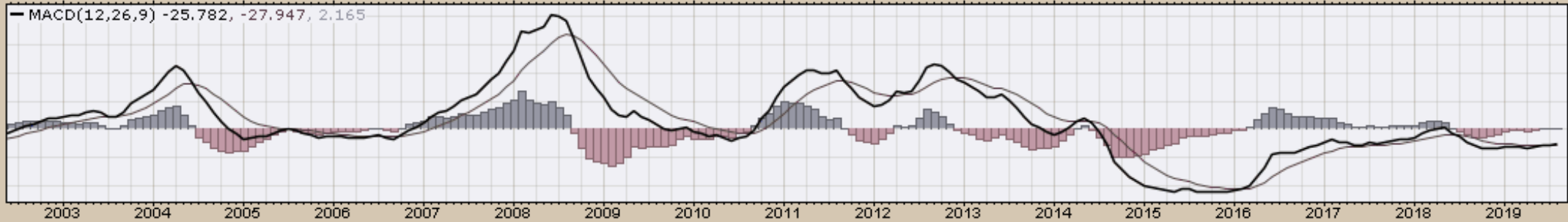
▲ CMF(20) 0.002 (31 Jul)

CHART B12. SOYBEANS, MONTHLY CHART

▲ \$SOYB (Monthly) 891.75
— BB(20,2,0) 783.98 - 921.51 - 1059.05
— PIVOTS 659.67, 777.33, 929.92, 1047.58, 1200.17

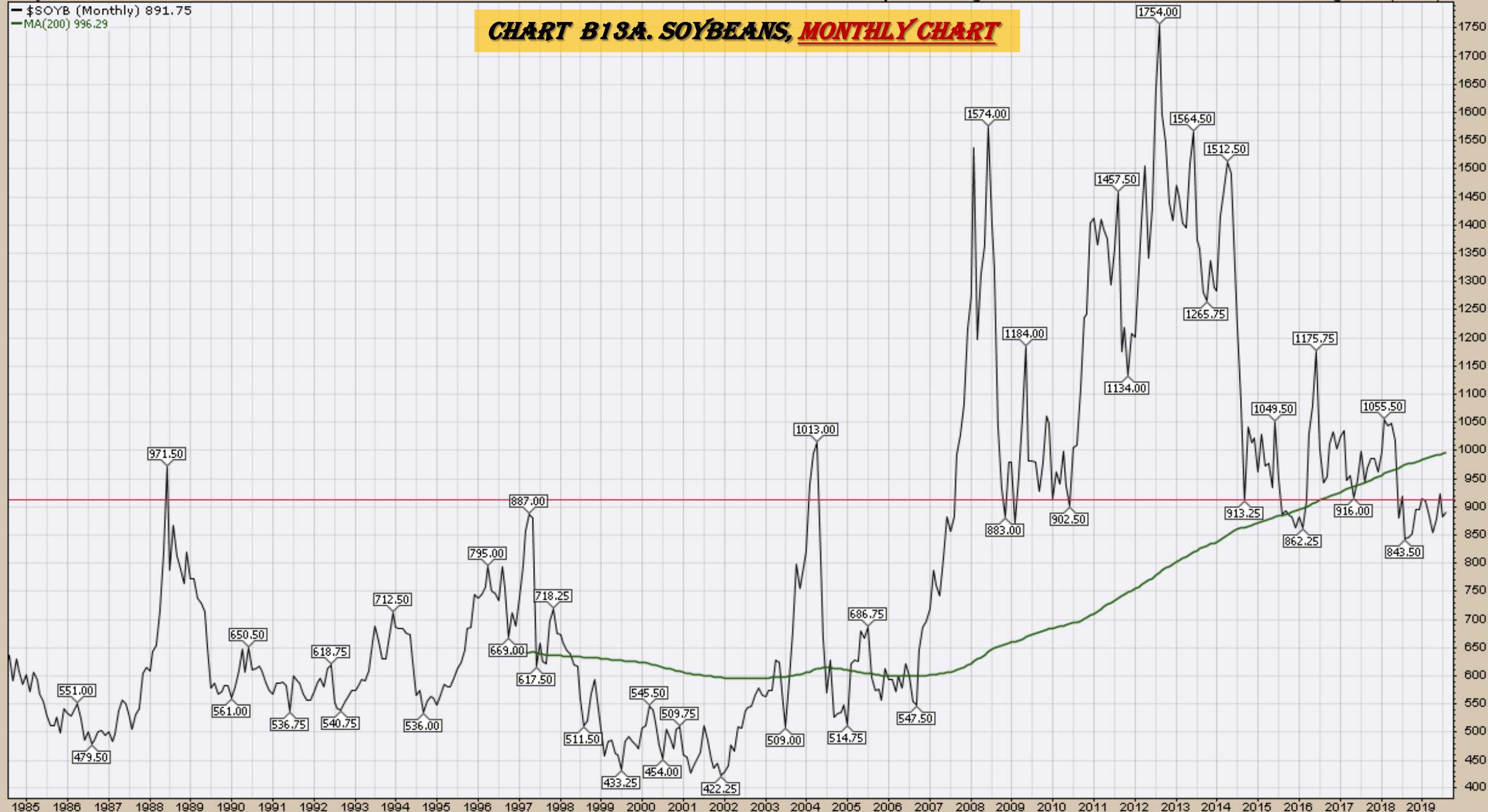


— MACD(12,26,9) -25.782, -27.947, 2.165



— \$SOYB (Monthly) 891.75
— MA(200) 996.29

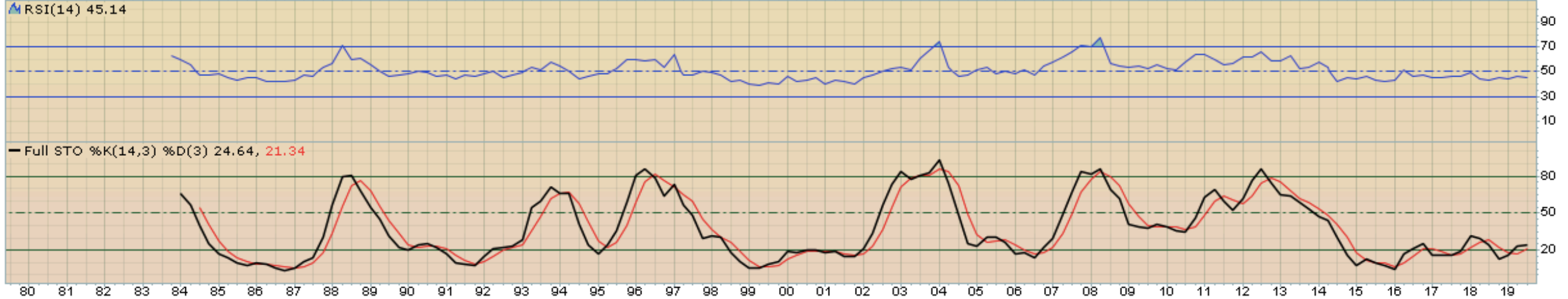
CHART B13A. SOYBEANS, MONTHLY CHART



MACD(12,26,9) -59.640, -53.300, -6.340

\$SOYB (Quarterly) 891.75

CHART B13B. SOYBEANS, QUARTERLY CHART



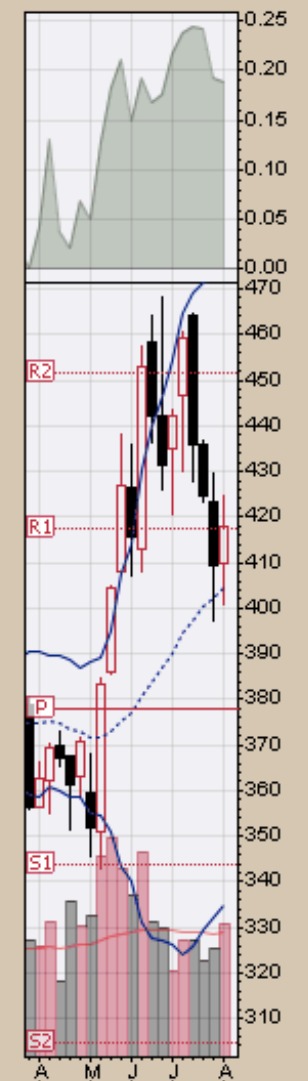
Corn

Weekly, Daily, Monthly and Quarterly Charts

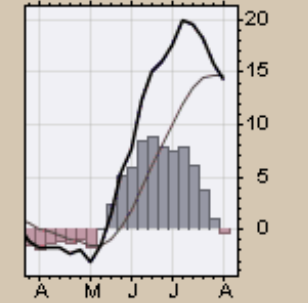
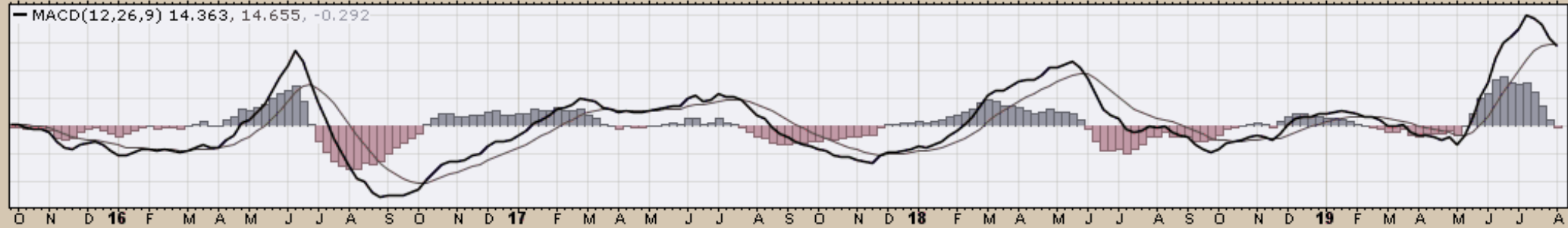
▲ CMF(20) 0.188

90 \$CORN (Weekly) 417.75
— BB(20,2,0) 334.90 - 404.27 - 473.65
— PIVOTS 304.50, 343.75, 378.00, 417.25, 451.50
■ Volume 1.02M, EMA(50) 945.23K

CHART B14. CORN, WEEKLY CHART

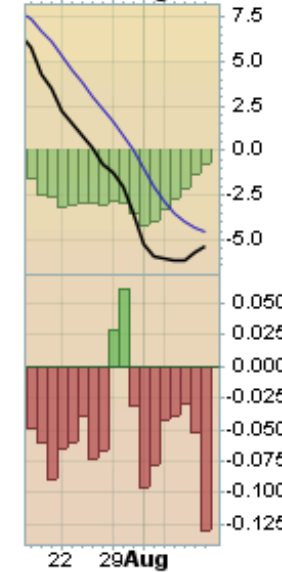
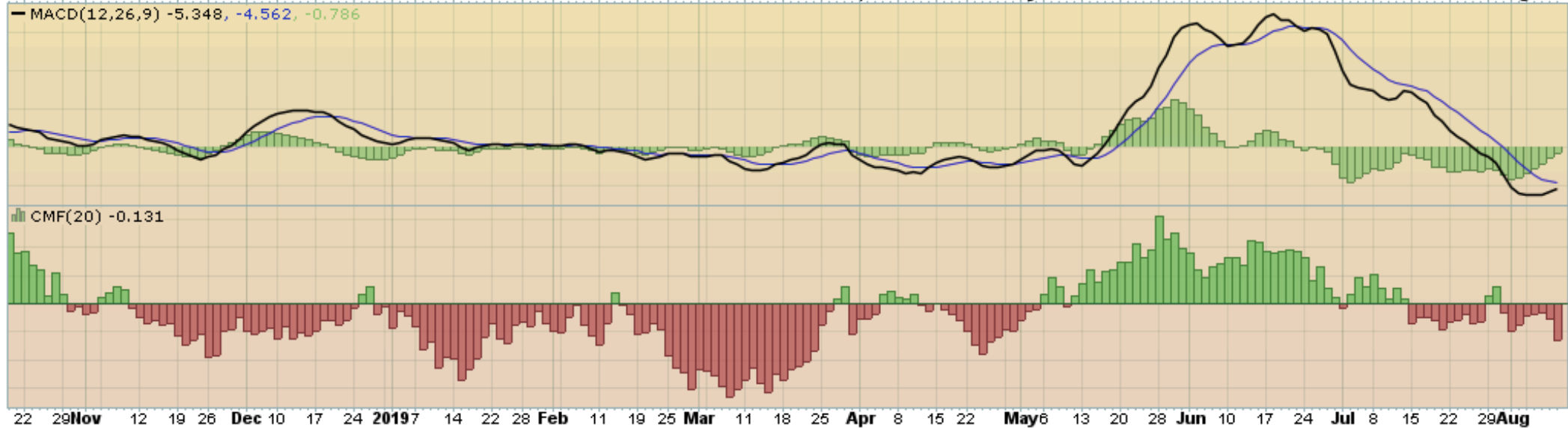
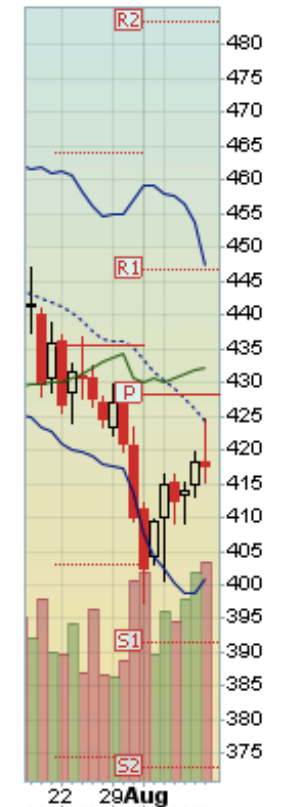
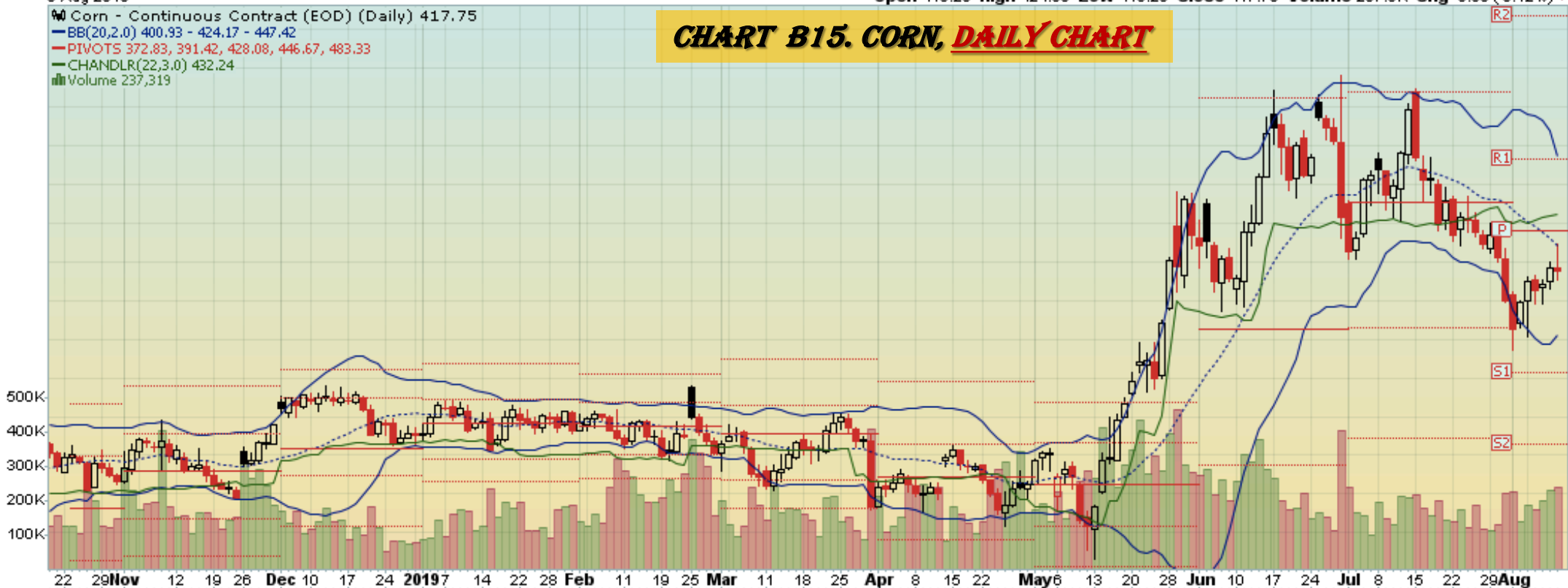


— MACD(12,26,9) 14.363, 14.655, -0.292



Corn - Continuous Contract (EOD) (Daily) 417.75
 BB(20,2,0) 400.93 - 424.17 - 447.42
 PIVOTS 372.83, 391.42, 428.08, 446.67, 483.33
 CHANDLR(22,3,0) 432.24
 Volume 237,319

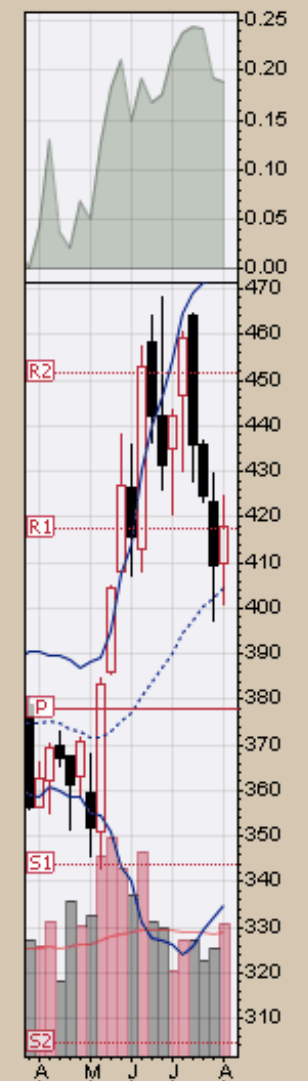
CHART B15. CORN, DAILY CHART



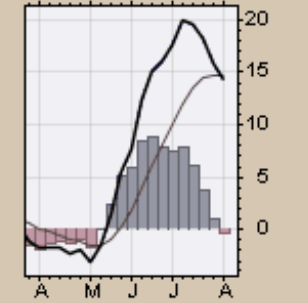
▲ CMF(20) 0.188

CHART B16. CORN, MONTHLY CHART

\$CORN (Weekly) 417.75
 BB(20,2.0) 334.90 - 404.27 - 473.65
 PIVOTS 304.50, 343.75, 378.00, 417.25, 451.50
 Volume 1.02M, EMA(50) 945.23K

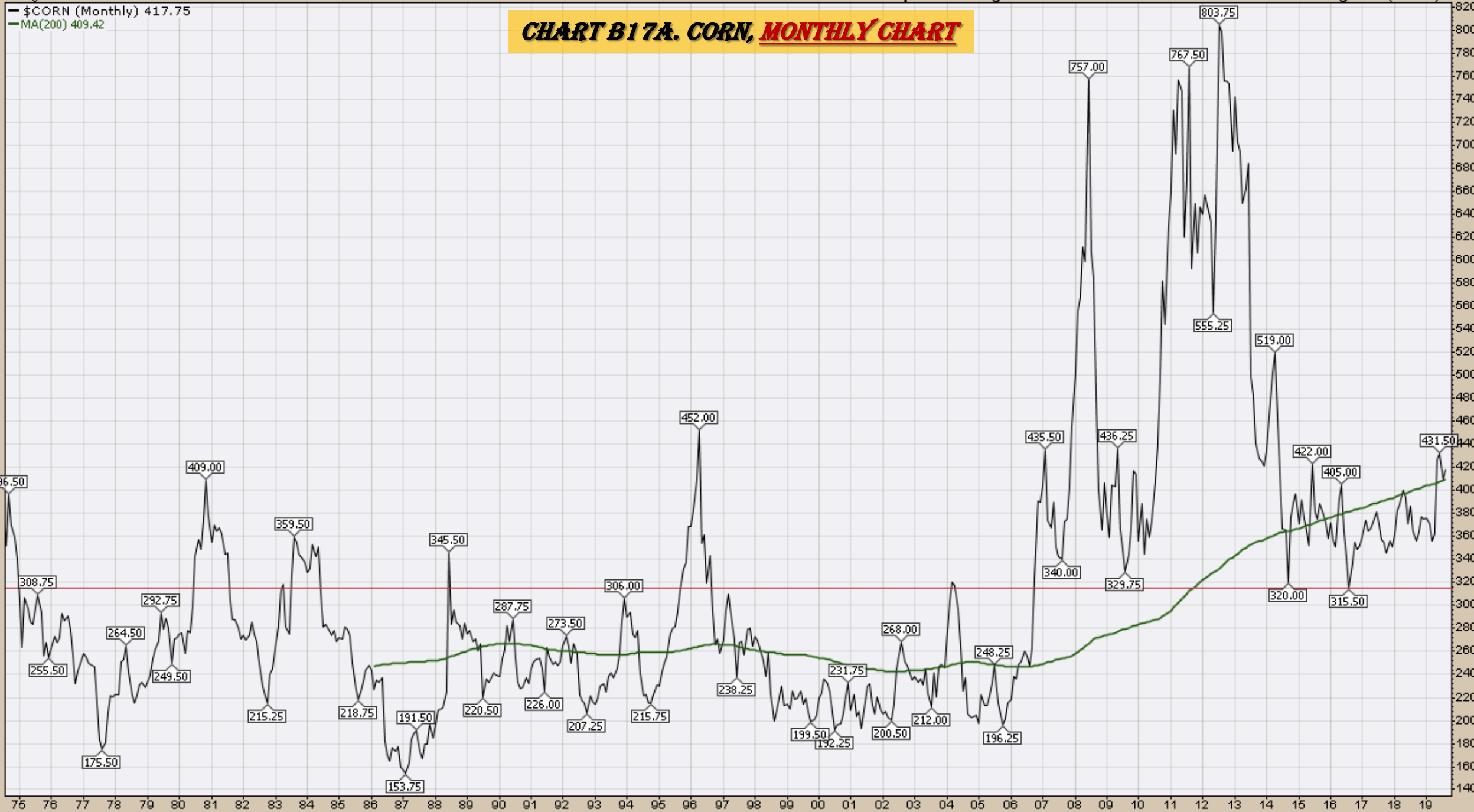


MACD(12,26,9) 14.363, 14.655, -0.292



— \$CORN (Monthly) 417.75
— MA(200) 409.42

CHART B17A. CORN, MONTHLY CHART



MACD(12,26,9) -16.760, -25.845, 9.085

\$CORN (Quarterly) 417.75

MA(50) 460.57

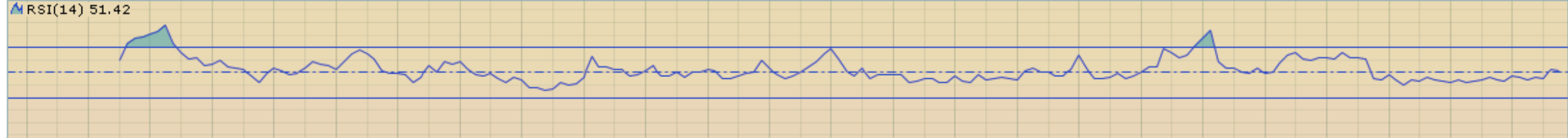
MA(200) 300.48

EMA(20) 396.65

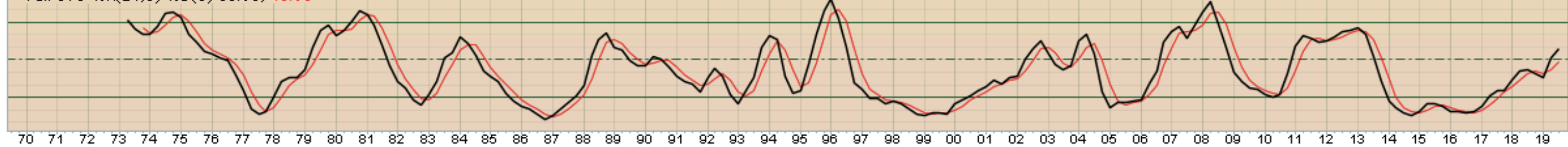
CHART B17B. CORN, QUARTERLY CHART



RSI(14) 51.42



Full STO %K(14,3) %D(3) 58.98, 48.96



Rice

CHART B18. ROUGH RICE, 20 YEAR



CHART B19. ROUGH RICE, 5 YEAR



CHART B20. ROUGH RICE, 1 YEAR



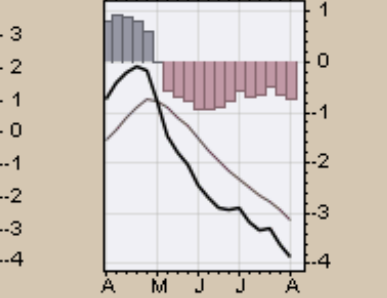
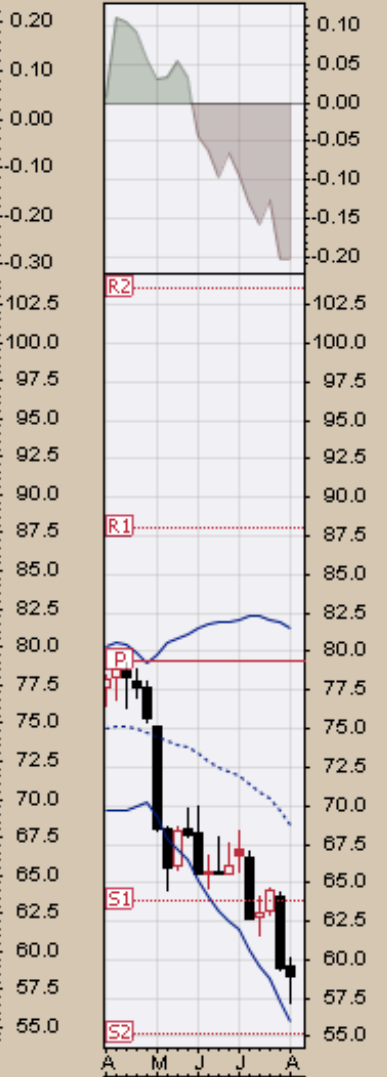
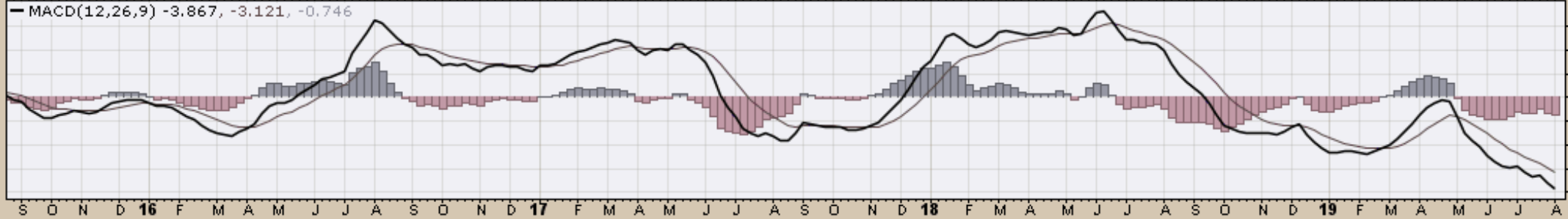
Cotton

Weekly, Daily, Monthly and Quarterly Charts

▲ CMF(20) -0.203

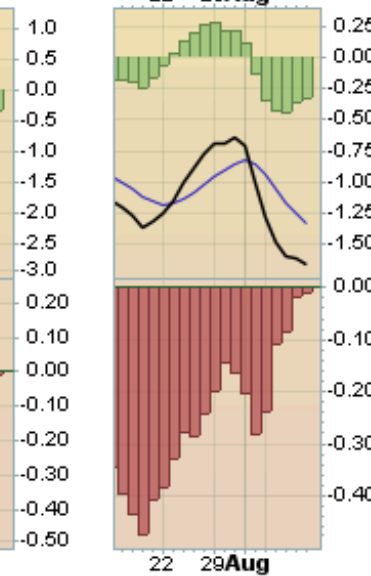
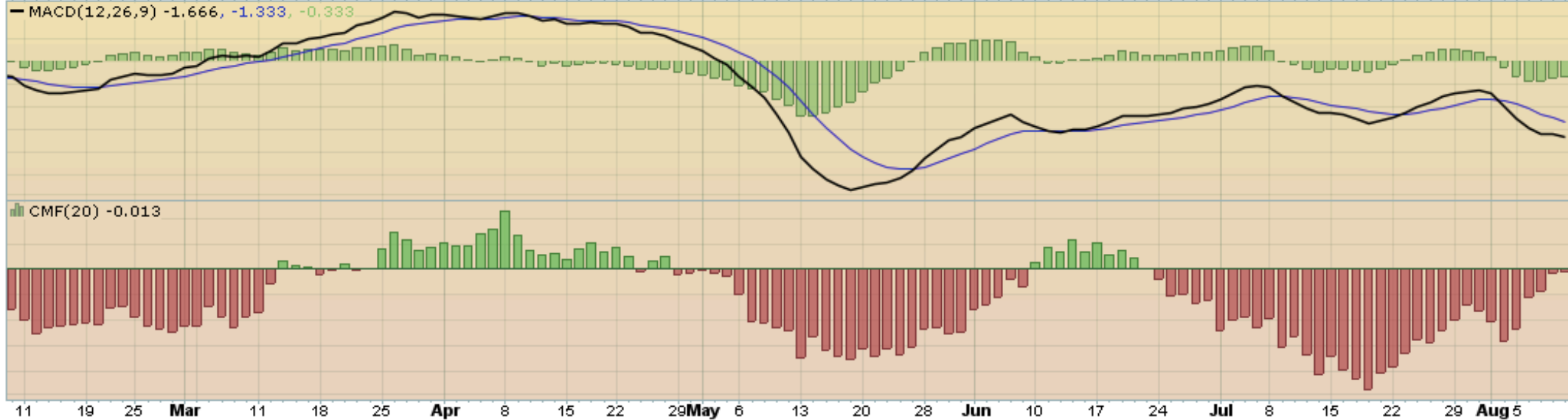
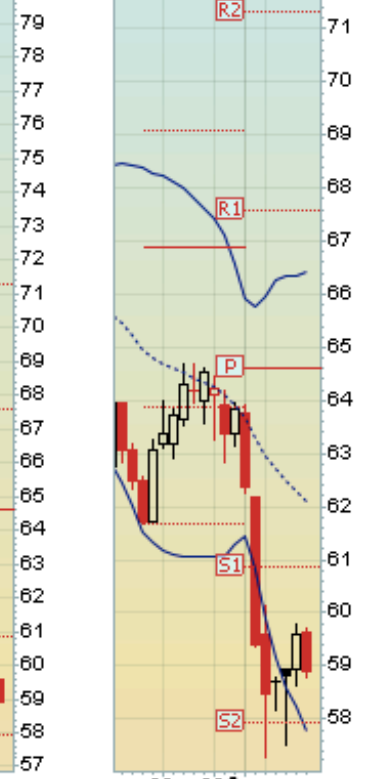
▲ \$COTTON (Weekly) 58.90
— BB(20,2,0) 56.07 - 68.78 - 81.50
— PIVOTS 55.16, 63.84, 79.33, 88.01, 103.50

CHART B21. COTTON, WEEKLY CHART



9-Aug-2019

Open 59.62 High 59.70 Low 58.79 Close 58.90 Volume 12.3K Chg -0.68 (-1.14%)



9-Aug-2019

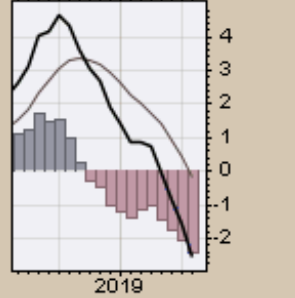
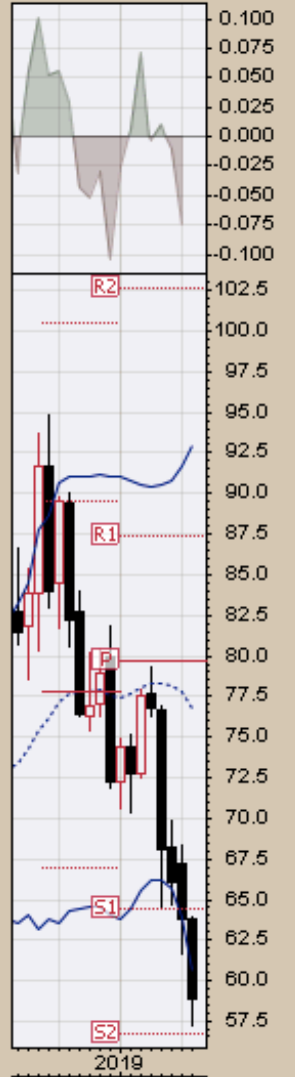
▲ CMF(20) -0.075 (31 Jul)

CHART B23. COTTON, MONTHLY CHART

● \$COTTON (Monthly) 58.90
— BB(20,2,0) 60.66 - 76.79 - 92.91
— PIVOTS 56.68, 64.44, 79.63, 87.39, 102.58

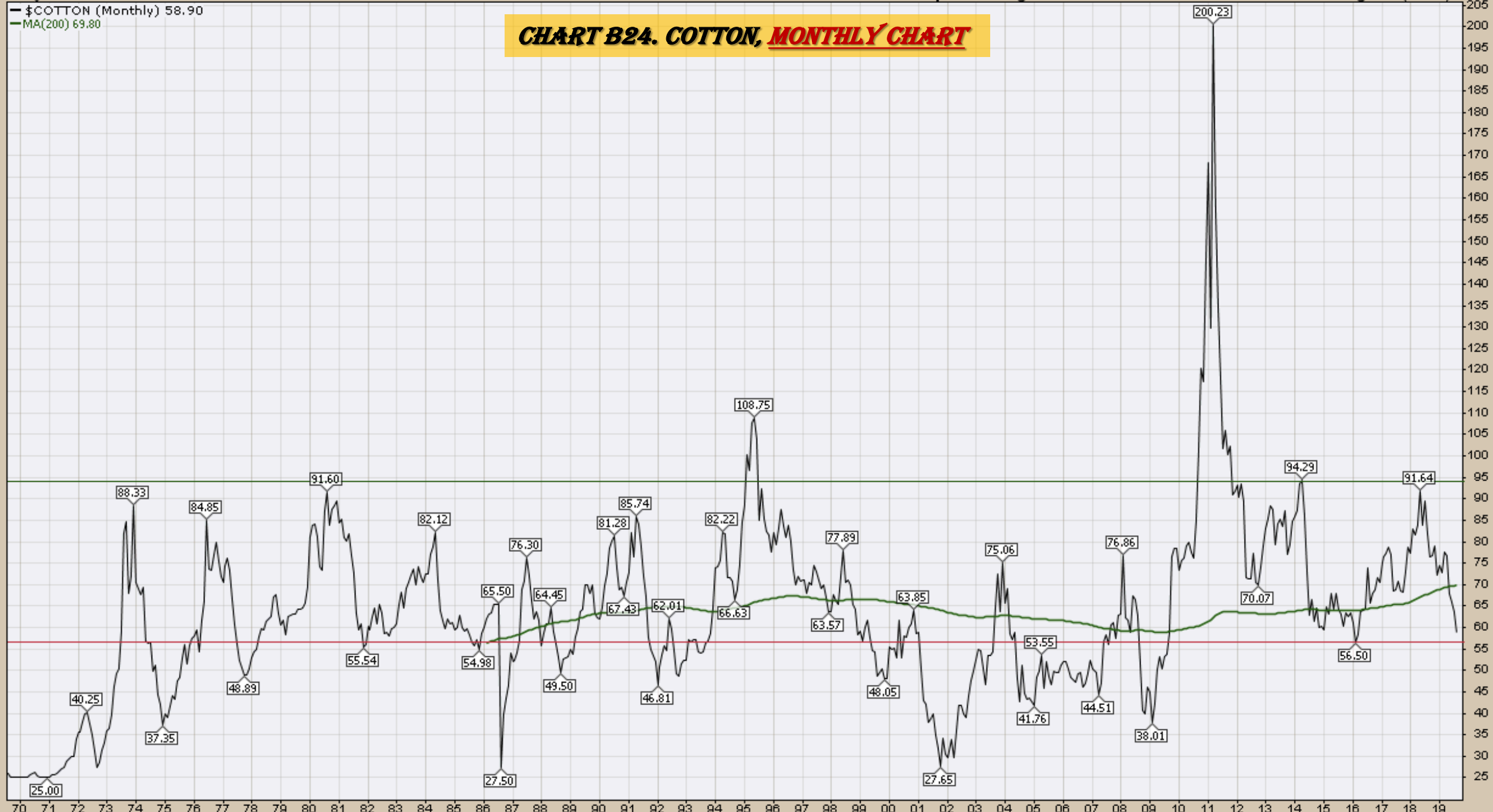


— MACD(12,26,9) -2.572, -0.160, -2.412



— \$COTTON (Monthly) 58.90
— MA(200) 69.80

CHART B24. COTTON, MONTHLY CHART



MACD(12,26,9) -1.587, -0.922, -0.666

CHART B24B. COTTON, QUARTERLY CHART

% \$COTTON (Quarterly) 58.90

MA(50) 76.40
MA(200) 63.22
EMA(20) 72.35



RSI(14) 42.57



Full STO %K(14,3) %D(3) 30.11, 41.72



Wheat

Weekly, Daily, Monthly and Quarterly Charts

9-Aug-2019

▲ CMF(20) 0.063

▲ \$WHEAT (Weekly) 499.50

— BB(20,2,0) 421.18 - 486.44 - 551.70

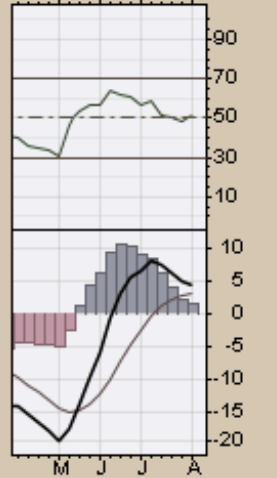
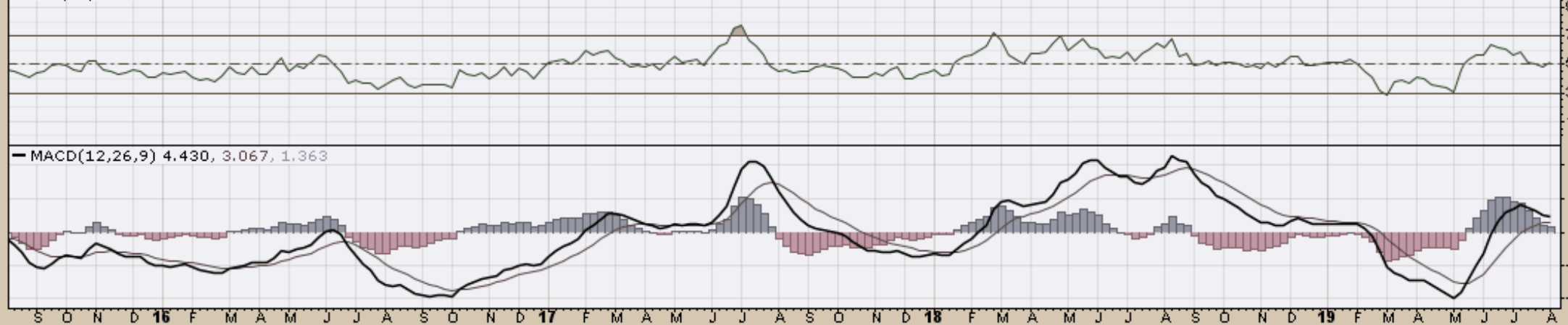
— PIVOTS 328.00, 422.50, 507.75, 602.25, 687.50

CHART B25. WHEAT, WEEKLY CHART



▲ RSI(14) 51.20

— MACD(12,26,9) 4.430, 3.067, 1.363

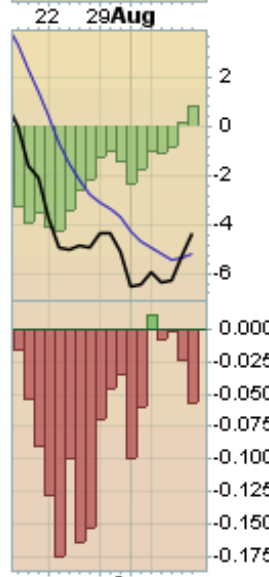
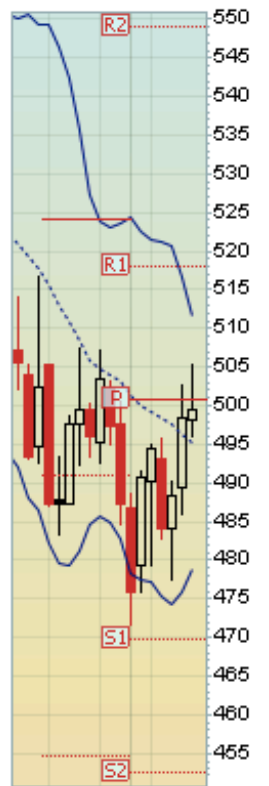
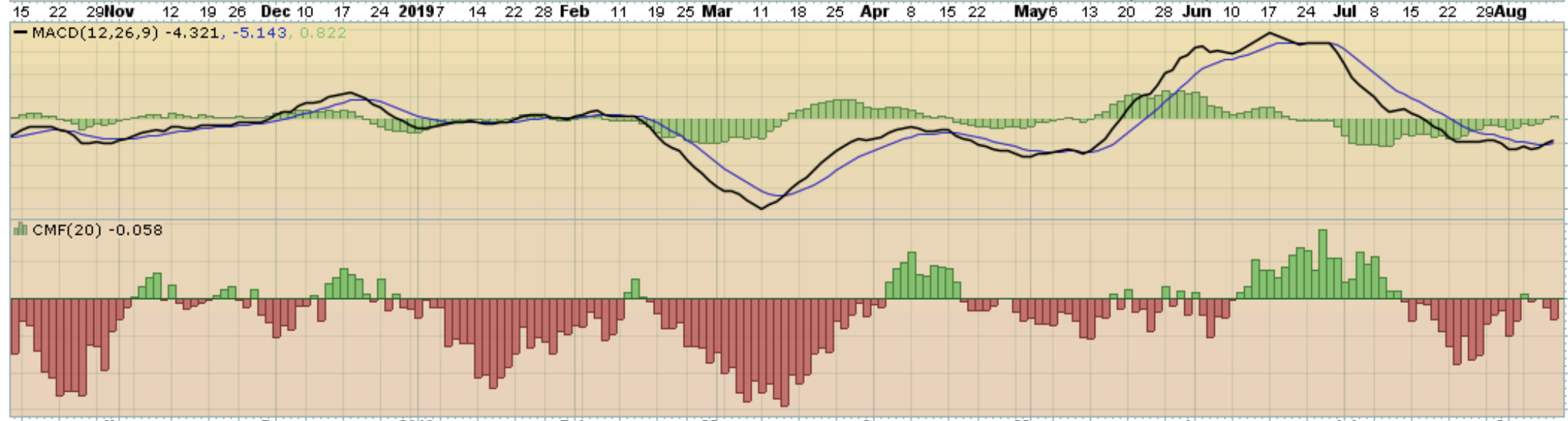


Wheat - Continuous Contract (EOD) (Daily) 499.50

BB(20,2,0) 478.69 - 495.19 - 511.69

PIVOTS 452.42, 469.83, 500.67, 518.08, 548.92

CHART B26. WHEAT, DAILY CHART



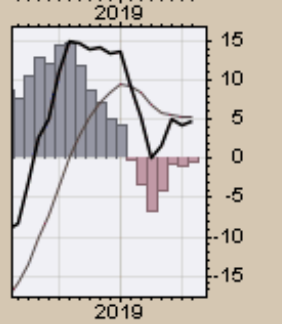
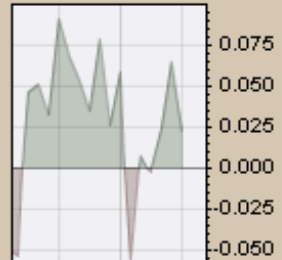
▲ CMF(20) 0.022 (31 Jul)

WHEAT (Monthly) 499.50
BB(20,2,0) 433.31 - 497.15 - 560.99
PIVOTS 323.42, 413.33, 503.17, 593.08, 682.92

CHART B27. WHEAT, MONTHLY CHART



MACD(12,26,9) 4.693, 5.224, -0.532



— \$WHEAT (Monthly) 499.50
— MA(200) 538.13

CHART B28A. WHEAT, MONTHLY CHART



MACD(12,26,9) -22.537, -31.234, 8.697

CHART B28B. WHEAT, QUARTERLY CHART

% \$WHEAT (Quarterly) 499.50

MA(50) 595.82
MA(200) undef
EMA(20) 503.96



RSI(14) 48.84



Full STO %K(14,3) %D(3) 52.40, 49.92

S&P Sectors

Sector Chart Book Index

Market Outlook Considerations for Week Beginning August 12, 2019

Chart Book Index - Sectors

- Chart C1. Financial Sector, Weekly Chart
- Chart C2. Health Care Sector, Weekly Chart
- Chart C3. Technology Sector, Weekly Chart
- Chart C4. Industrial Sector, Weekly Chart
- Chart C5. Materials Sector, Weekly Chart
- Chart C6. Energy Sector, Weekly Chart
- Chart C7. Utilities Sector, Weekly Chart
- Chart C8. Consumer Staples, Weekly Chart
- Chart C9. Consumer Discretionary, Weekly Chart

Continued Next Slide

CHART C1. FINANCIAL SECTOR, WEEKLY CHART

XLF (Weekly) 27.17
 BB(20,2,0) 25.76 - 27.26 - 28.76
 PIVOTS 17.46, 20.74, 25.10, 28.38, 32.74
 Volume 339.88M, EMA(50) 261.79M

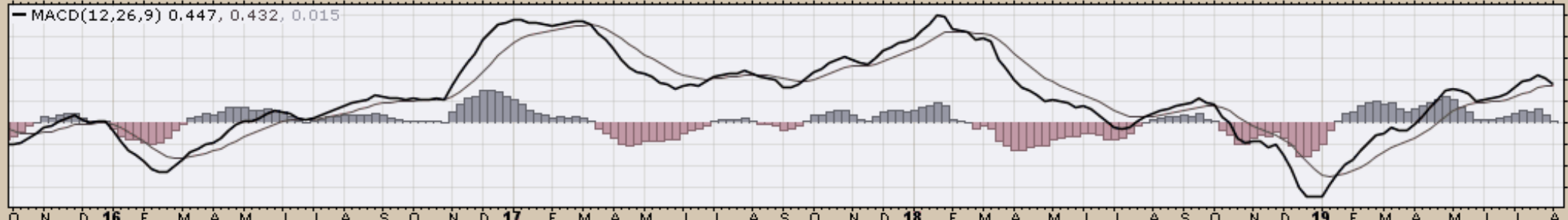
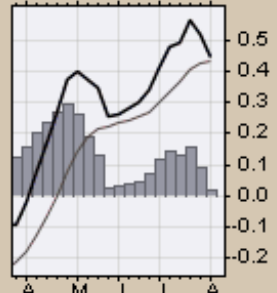
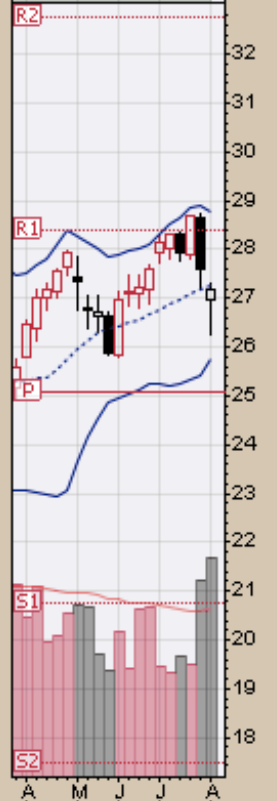
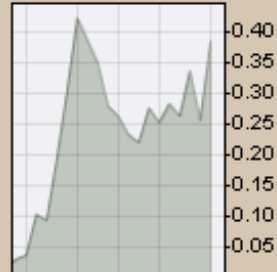
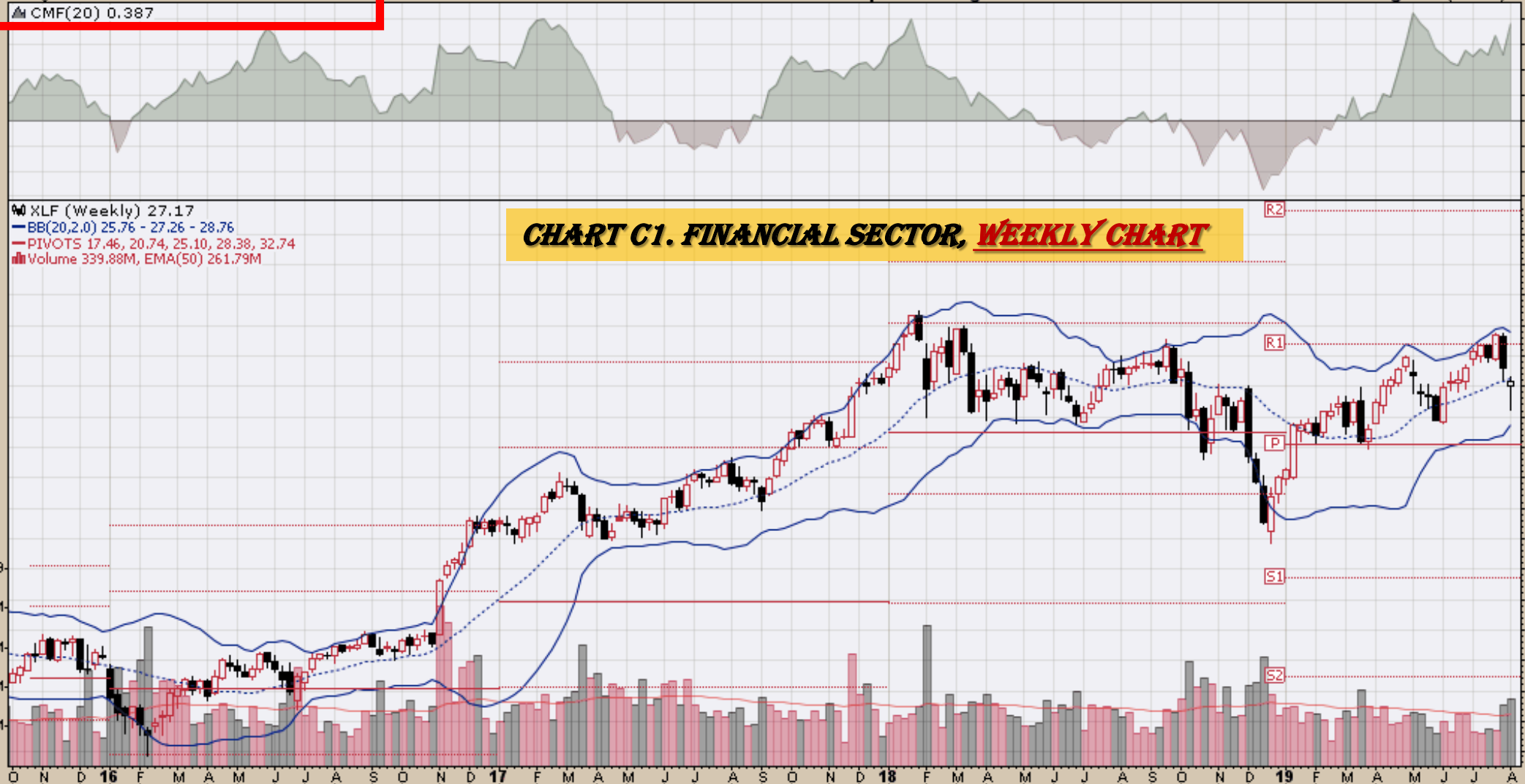
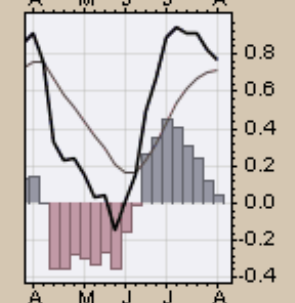
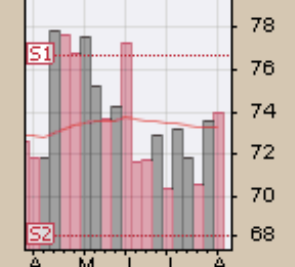
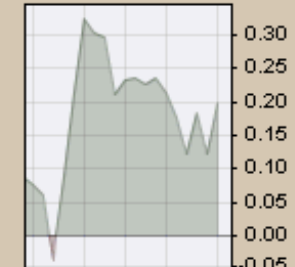
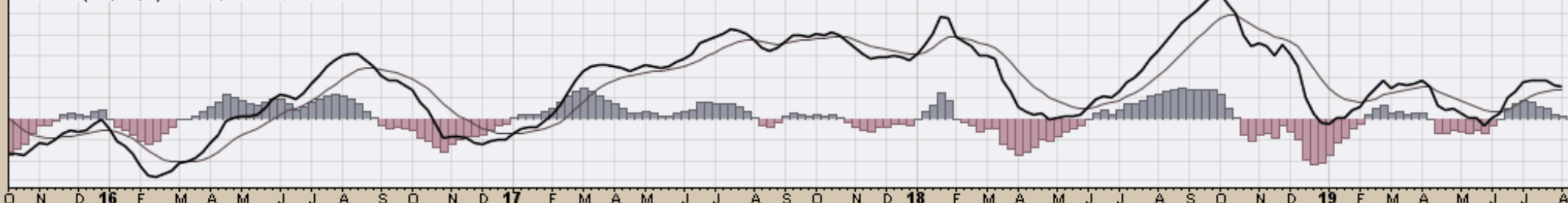


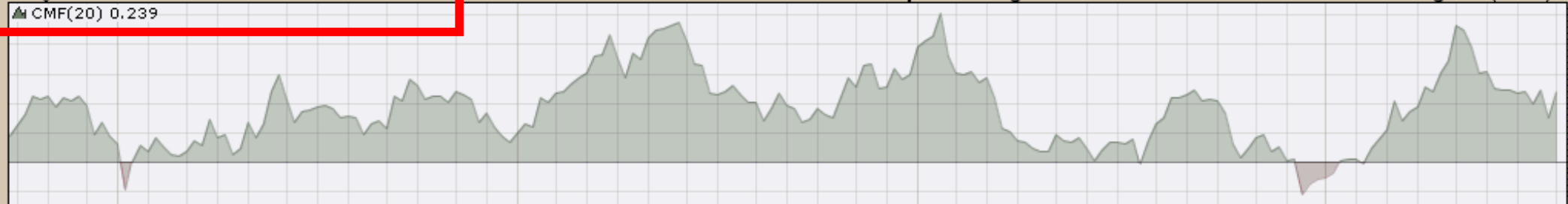
CHART C2. HEALTH CARE SECTOR, WEEKLY CHART

XLV (Weekly) 91.40
BB(20,2,0) 86.21 - 90.47 - 94.73
PIVOTS 68.08, 76.68, 85.77, 94.37, 103.47
Volume 58.33M, EMA(50) 52.31M



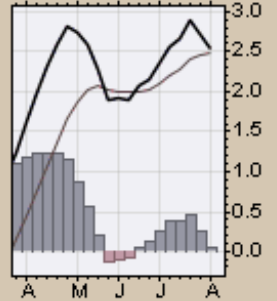
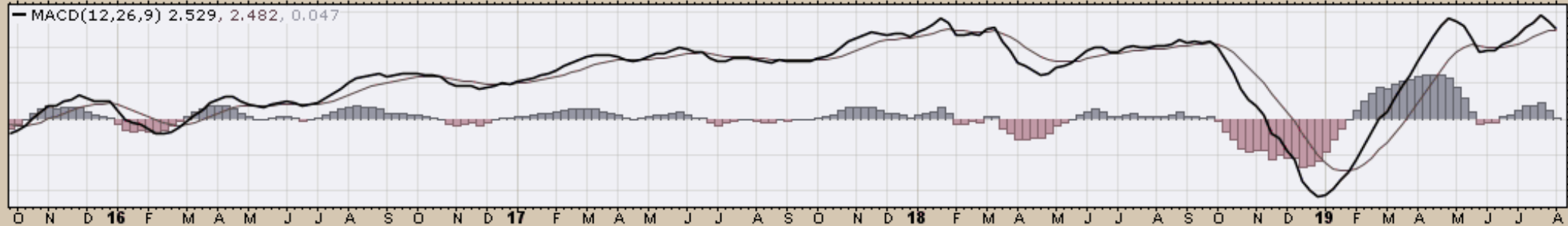
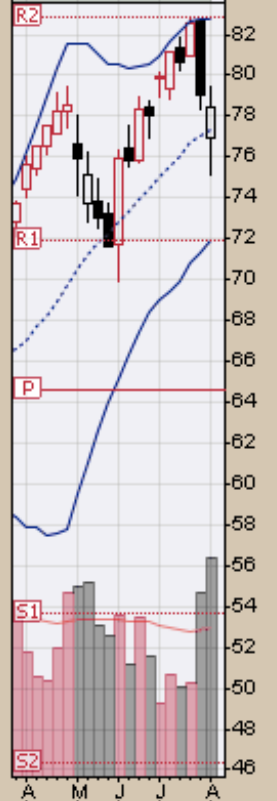
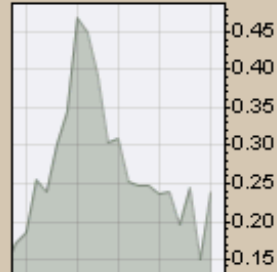
MACD(12,26,9) 0.763, 0.713, 0.050





▲ XLK (Weekly) 78.49
 — BB(20,2.0) 71.88 - 77.30 - 82.72
 — PIVOTS 46.32, 53.70, 64.56, 71.95, 82.81
 ■ Volume 99.04M, EMA(50) 67.81M

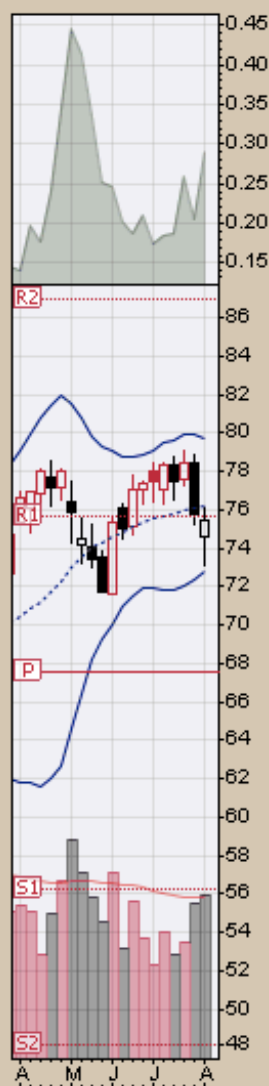
CHART C3. TECHNOLOGY SECTOR, WEEKLY CHART



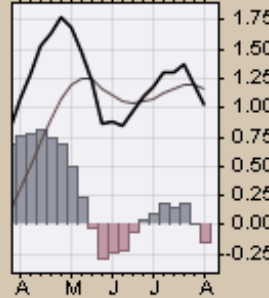
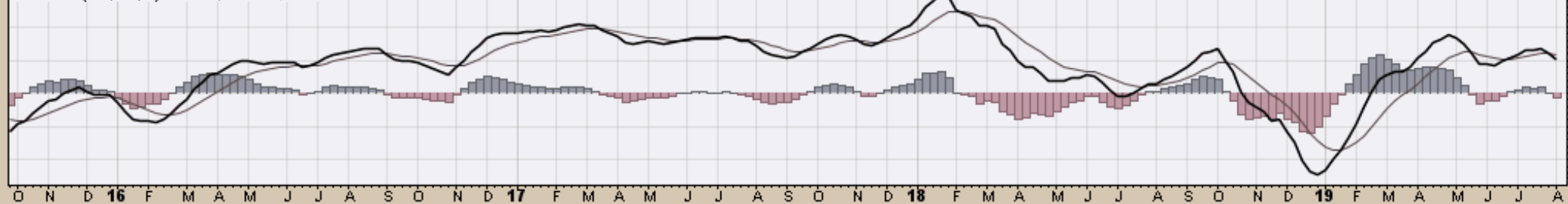
▲ CMF(20) 0.291

CHART C4. INDUSTRIAL SECTOR, WEEKLY CHART

▲ XLI (Weekly) 75.42
 — BB(20,2,0) 72.82 - 76.26 - 79.70
 — PIVOTS 48.10, 56.30, 67.52, 75.71, 86.93
 ■ Volume 59.40M, EMA(50) 59.03M



— MACD(12,26,9) 1.024, 1.164, -0.140



▲ CMF(20) 0.362

▲ XLB (Weekly) 57.73
— BB(20,2,0) 53.23 - 56.84 - 60.44
— PIVOTS 37.49, 44.12, 53.20, 59.83, 68.91
■ Volume 50.89M, EMA(50) 35.49M

CHART C5. MATERIALS SECTOR, WEEKLY CHART

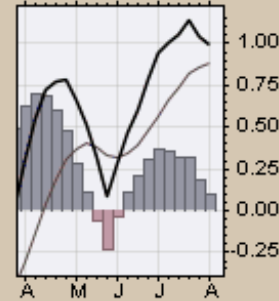
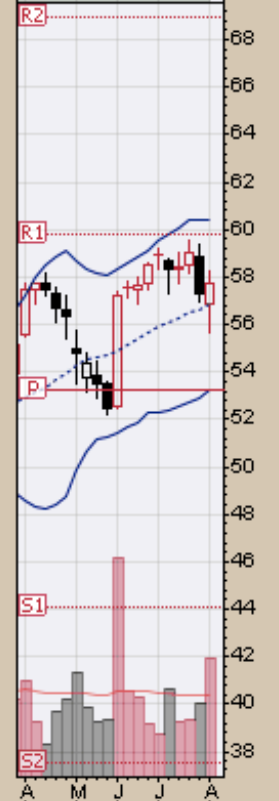
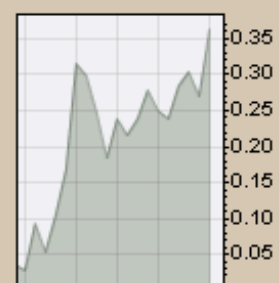
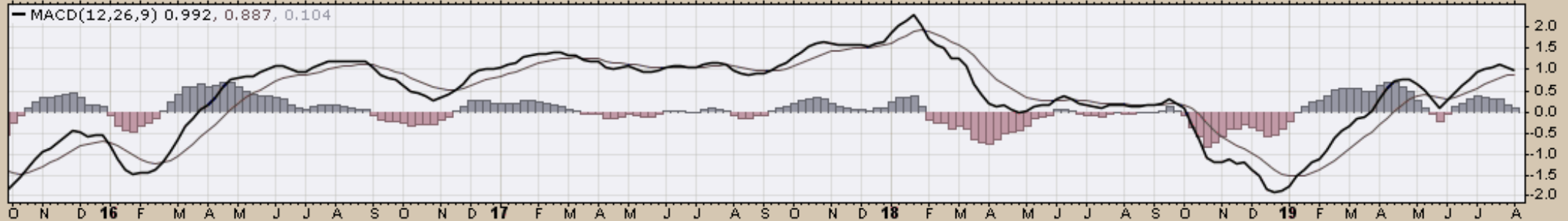
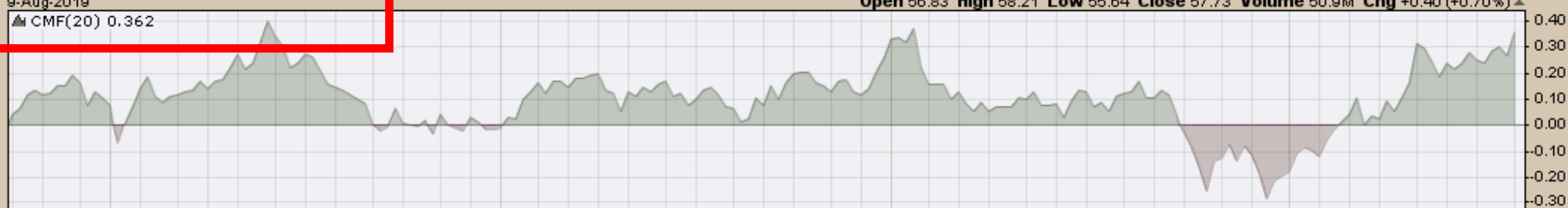
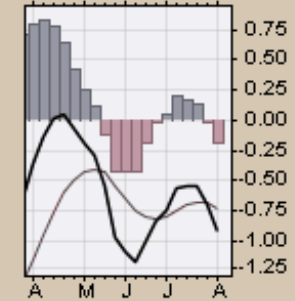
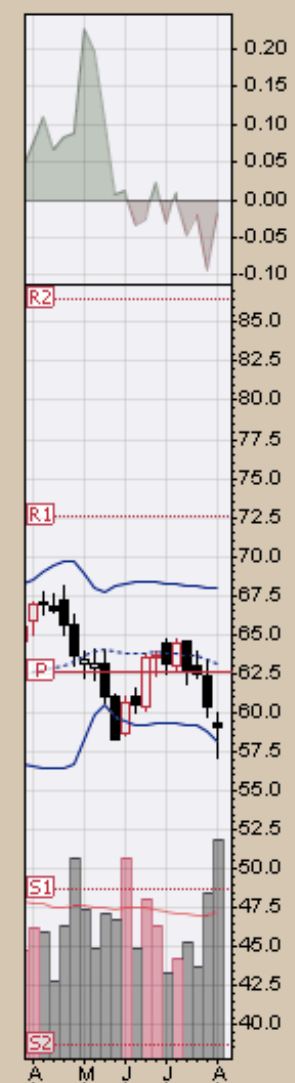
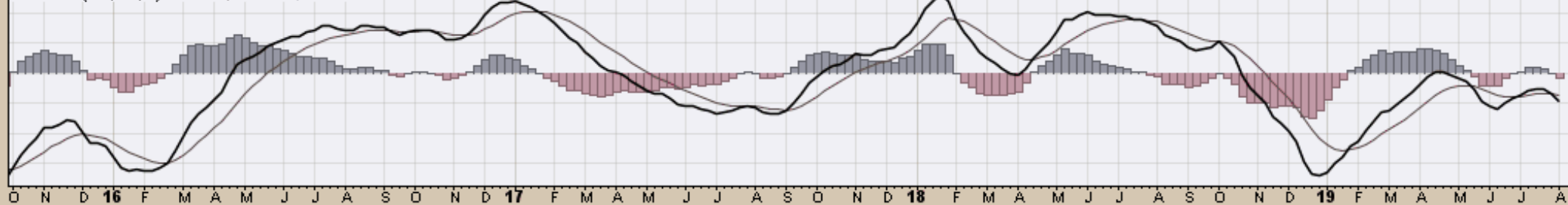


CHART C6. ENERGY SECTOR, WEEKLY CHART

XLE (Weekly) 59.10
BB(20,2,0) 58.17 - 63.10 - 68.03
PIVOTS 38.69, 48.78, 62.56, 72.64, 86.42
Volume 106.68M, EMA(50) 71.51M



MACD(12,26,9) -0.924, -0.729, -0.195



▲ CMF(20) 0.251

CHART C7. UTILITIES SECTOR, WEEKLY CHART

XLU (Weekly) 60.87
— BB(20,2,0) 56.37 - 59.08 - 61.79
— PIVOTS 40.22, 46.09, 50.96, 56.83, 61.70
■ Volume 107.05M, EMA(50) 84.53M

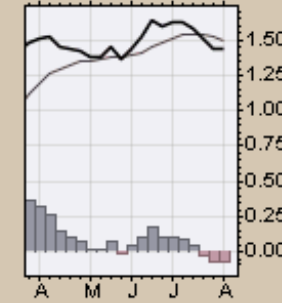
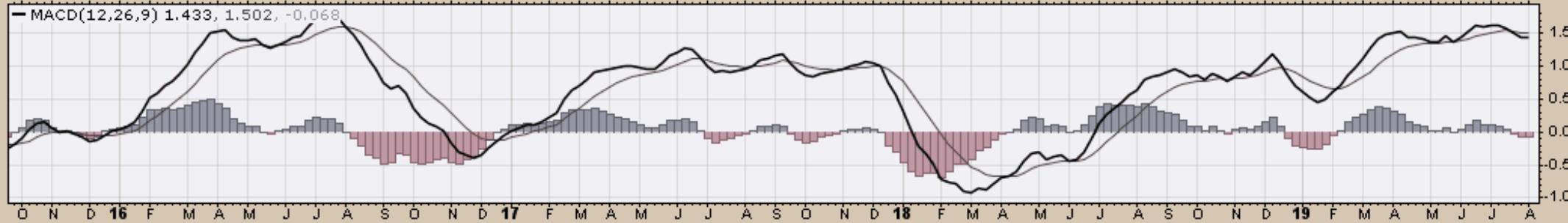
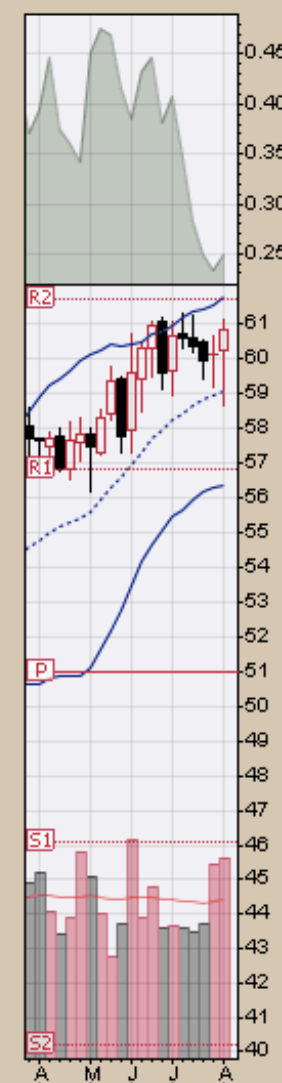
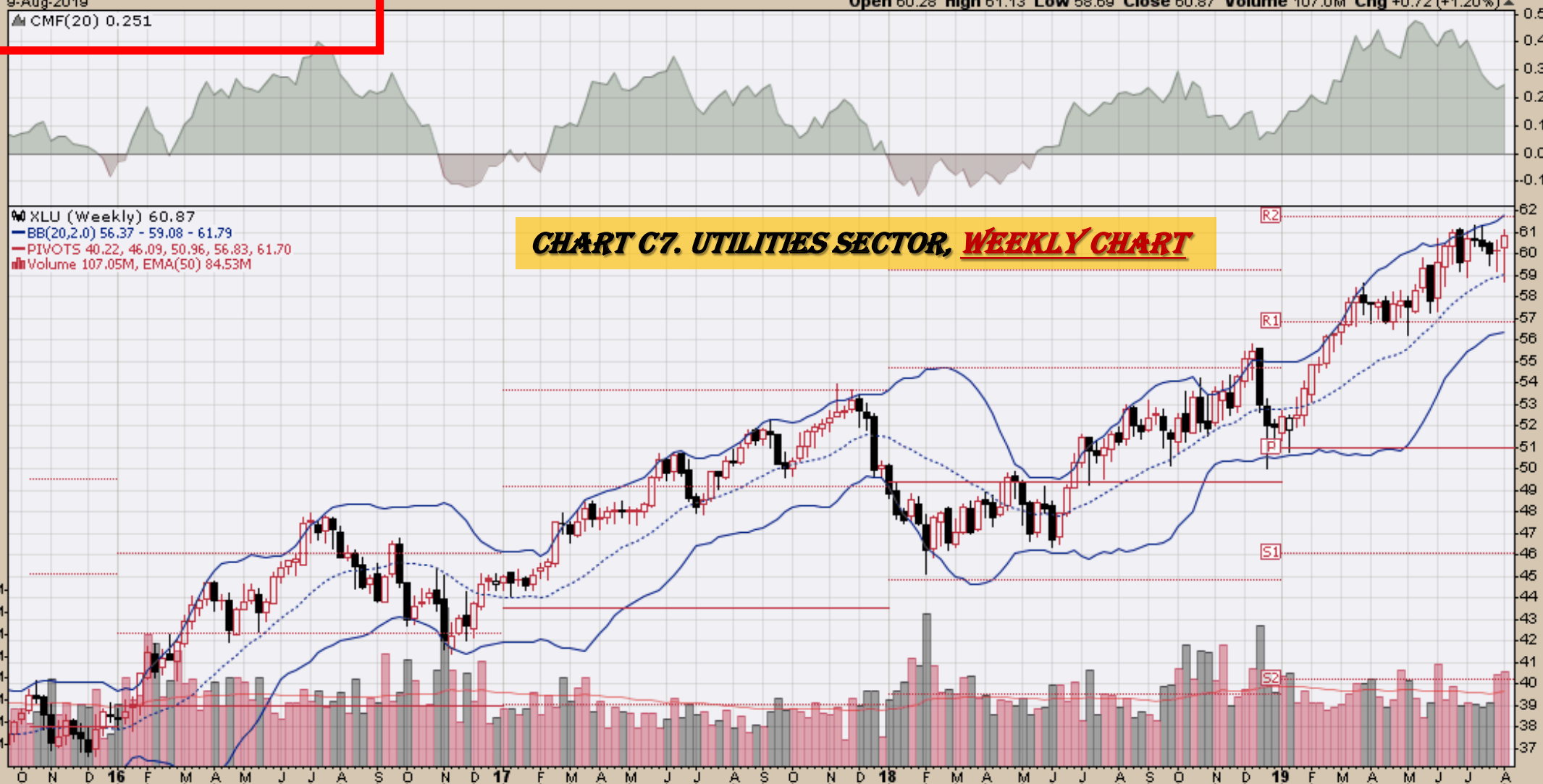


CHART C8. CONSUMER STAPLES SECTOR, WEEKLY CHART

XLP (Weekly) 59.32
BB(20,2,0) 54.52 - 57.74 - 60.96
PIVOTS 41.85, 46.22, 51.36, 55.73, 60.87
Volume 98.62M, EMA(50) 71.06M

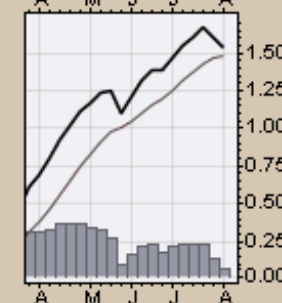
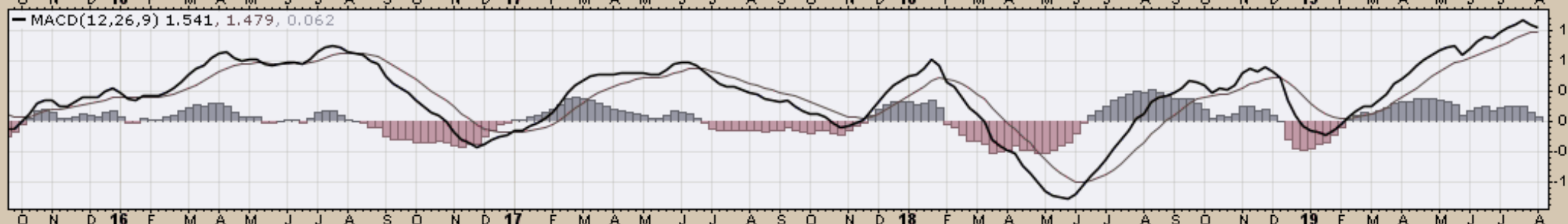
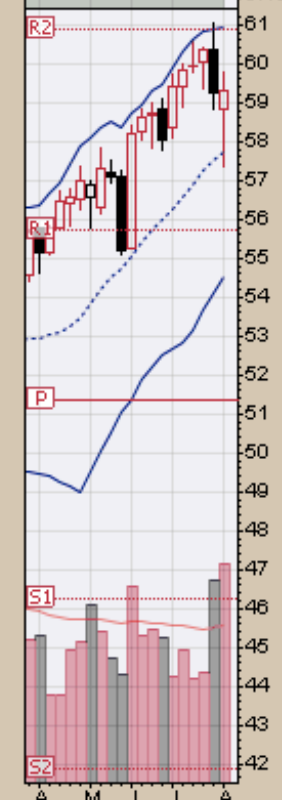
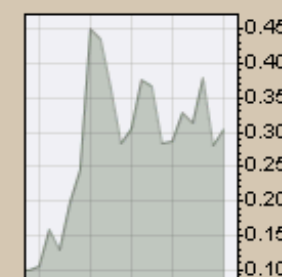
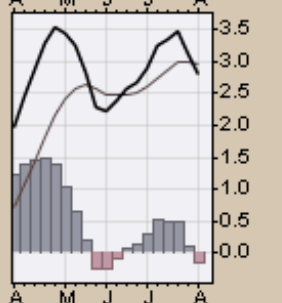
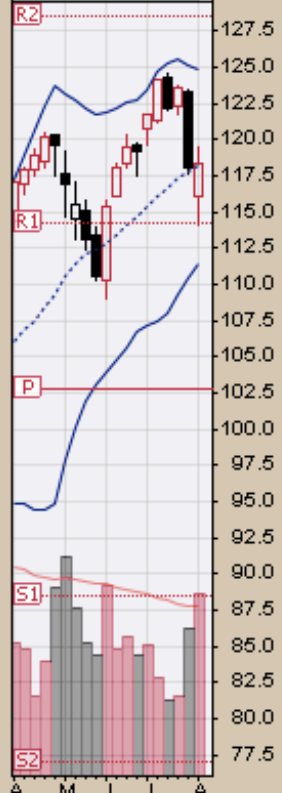
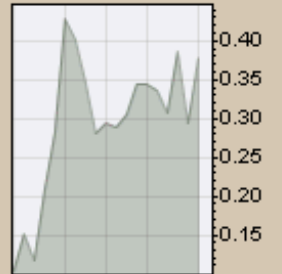
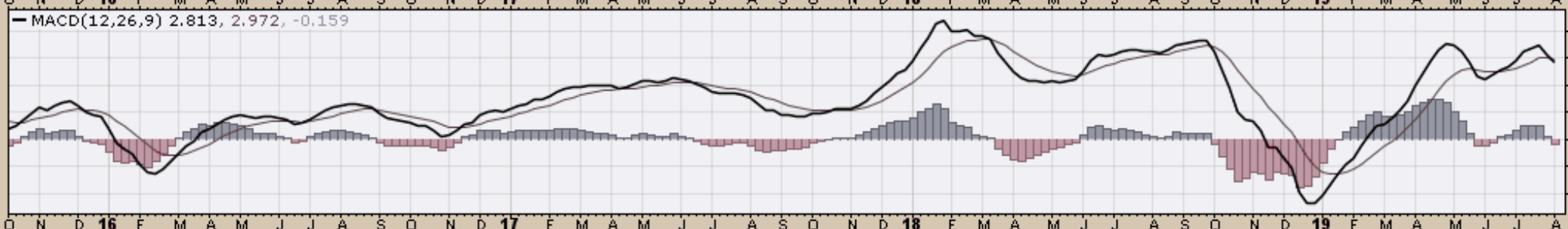
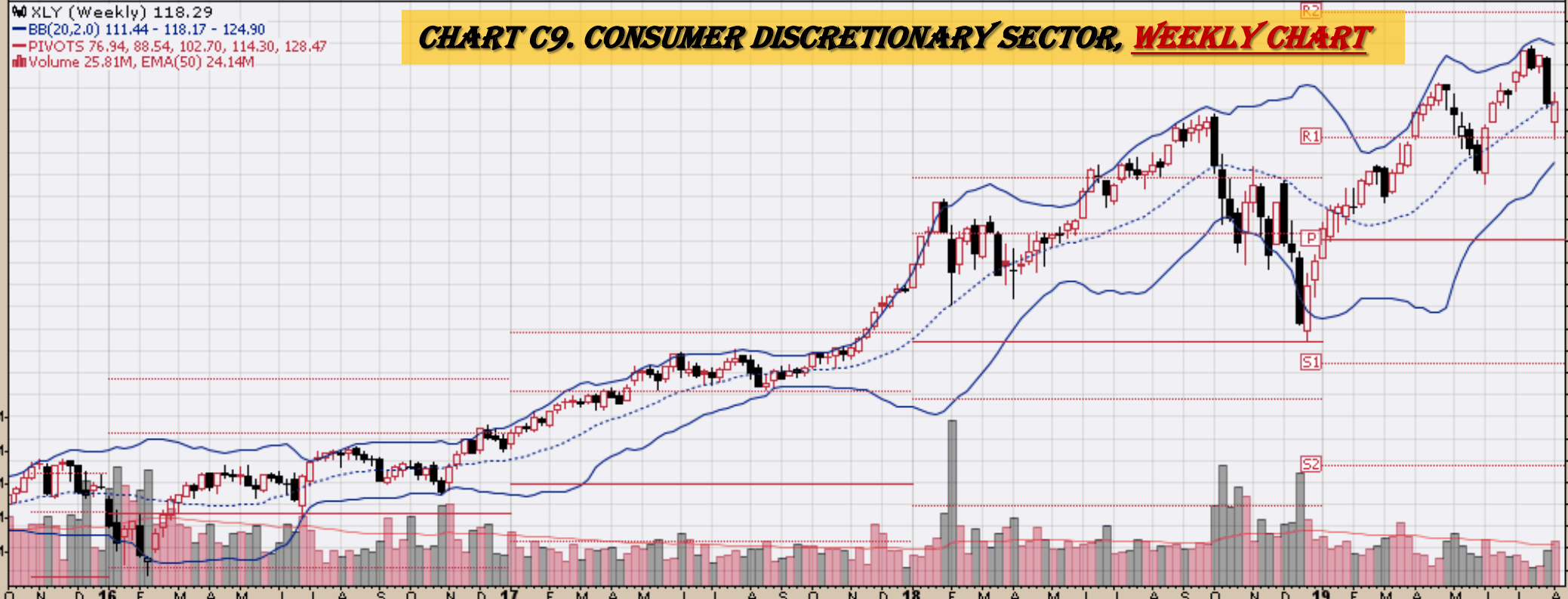
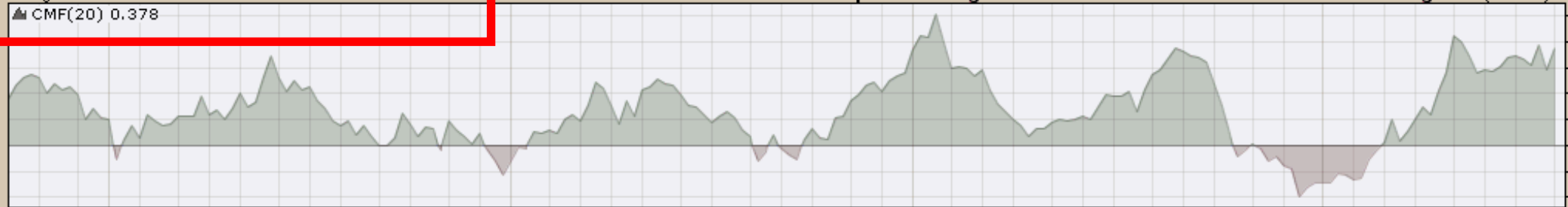


CHART C9. CONSUMER DISCRETIONARY SECTOR, WEEKLY CHART

XLY (Weekly) 118.29
— BB(20,2,0) 111.44 - 118.17 - 124.90
— PIVOTS 76.94, 88.54, 102.70, 114.30, 128.47
■ Volume 25.81M, EMA(50) 24.14M



Commodity ETFs

Commodity ETFs Book Index

Market Outlook Considerations for Week Beginning August 12, 2019

Chart Book Index – Commodity ETFs

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- Chart D3. Corn, Weekly Chart
- Chart D4. Livestock, Weekly Chart
- Chart D5. Agriculture, Weekly Chart
- Chart D6. Base Metals, Weekly Chart
- Chart D7. Commodity Index, Weekly Chart
- Chart D8. Energy, Weekly Chart
- Chart D9. Precious Metals, Weekly Chart
- Chart D10. Commodity Index, Weekly Chart
- Chart D11. Gold, Weekly Chart
- Chart D12. Goldman Sachs Total Return Commodity Index
- Chart D13. Copper, Weekly Chart
- Chart D14. Grains, Weekly Chart
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Commodity ETFs Book Index

Market Outlook Considerations for Week Beginning August 12, 2019

Chart Book Index – Commodity ETFs

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- Chart D23. Sugar, Weekly Chart
- Chart D24. Silver, Weekly Chart
- Chart D25. Soybeans, Weekly Chart
- Chart D26. Gasoline, Weekly Chart
- Chart D27. Natural Gas, Weekly Chart
- Chart D28. US 12 Month Oil Fund, Weekly Chart
- Chart D29. US Oil Fund, Weekly Chart
- Chart D30. Wheat, Weekly Chart

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▲ CMF(20) -0.034

● BALTF (Weekly) 38.43
— BB(20,2,0) 36.48 - 45.05 - 53.62
— PIVOTS 36.31, 42.26, 52.96, 58.91, 69.61

CHART D1. COTTON, WEEKLY CHART

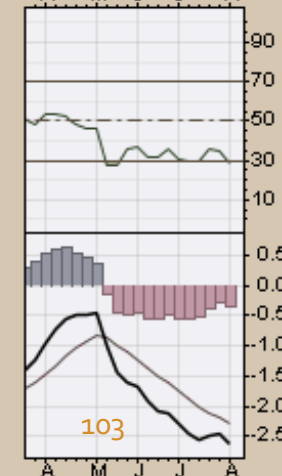
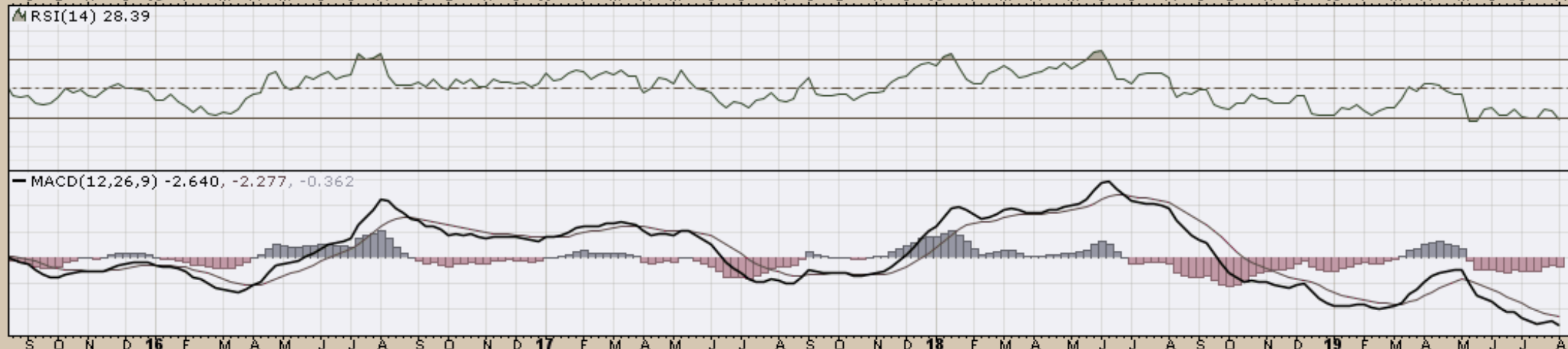
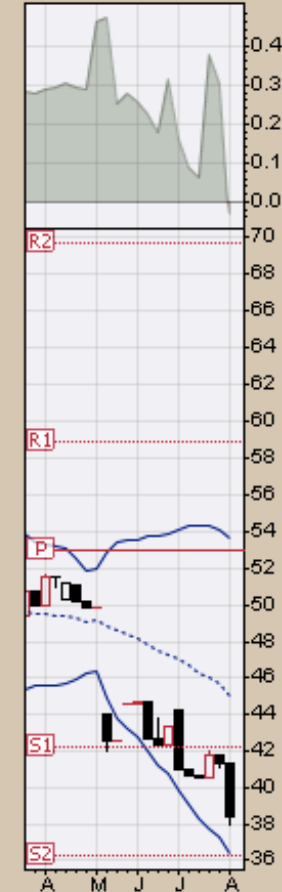
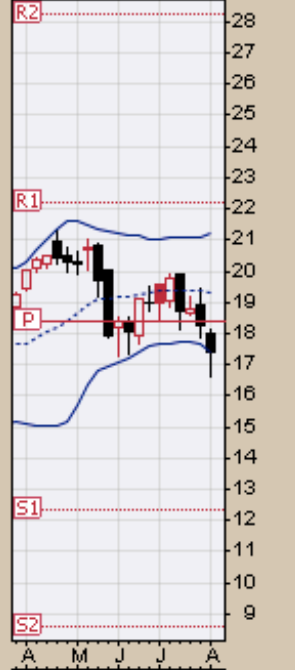
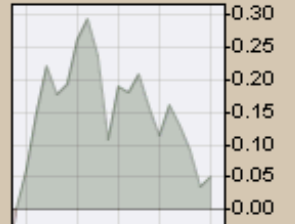
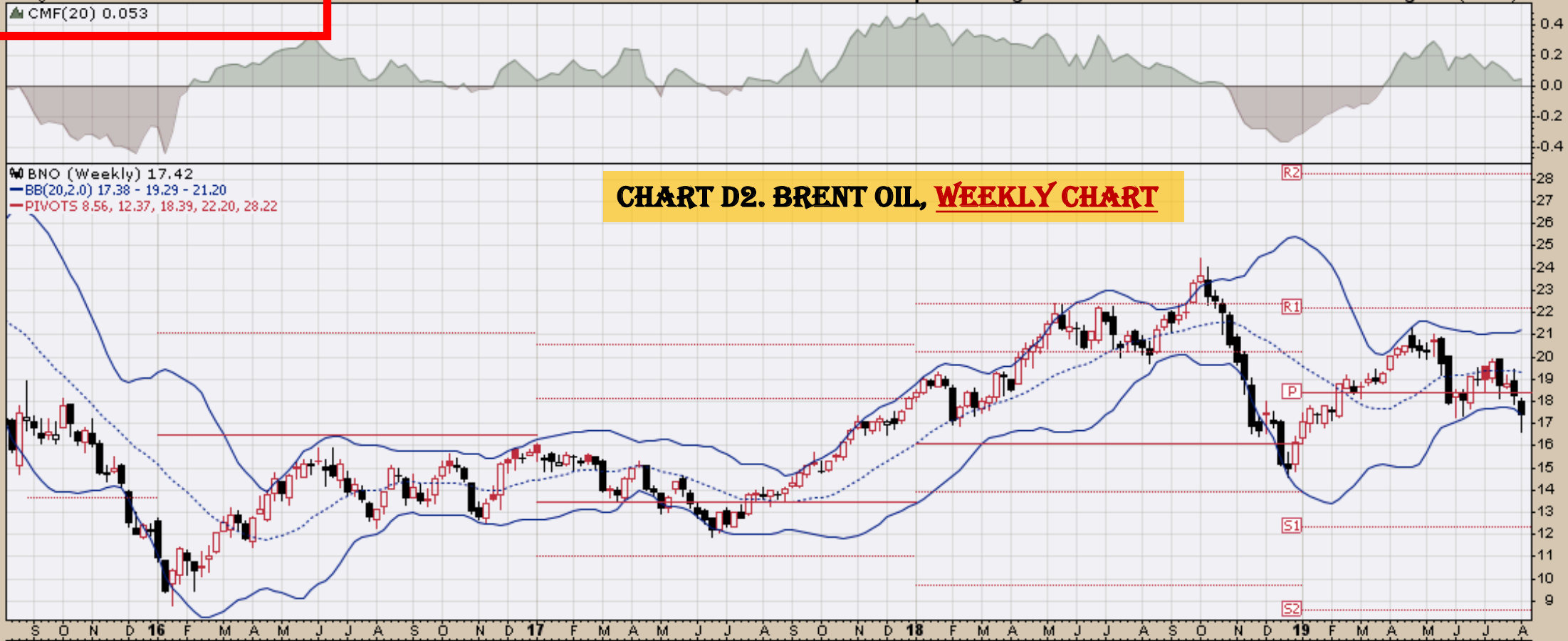


CHART D2. BRENT OIL, WEEKLY CHART

▲ BNO (Weekly) 17.42
— BB(20,2,0) 17.38 - 19.29 - 21.20
— PIVOTS 8.56, 12.37, 18.39, 22.20, 28.22



▲ RSI(14) 39.45

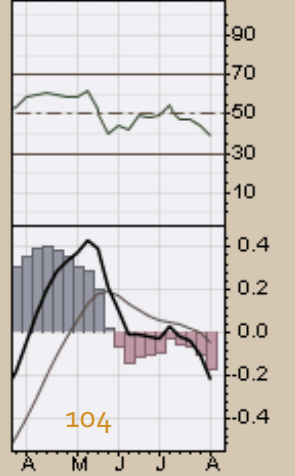
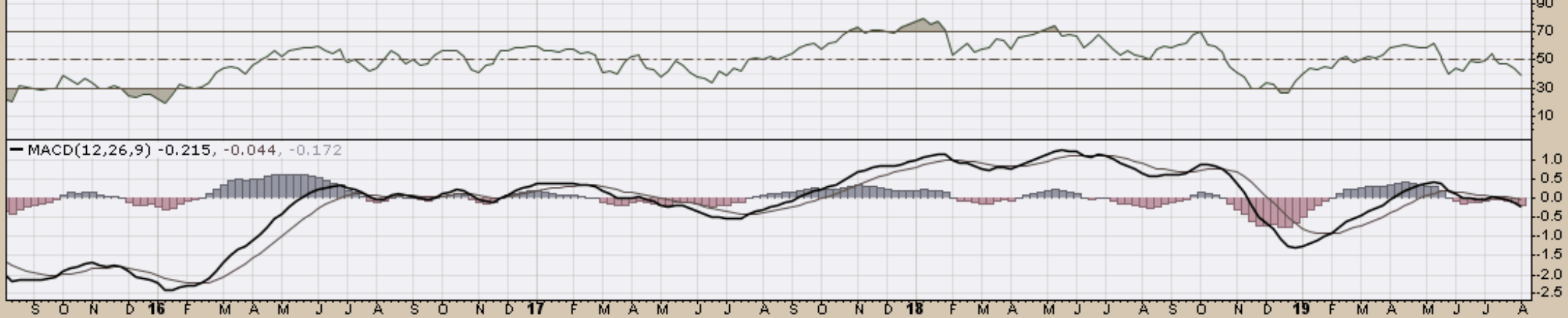


CHART D3. CORN, WEEKLY CHART

▲ CORN (Weekly) 16.14
— BB(20,2,0) 14.52 - 16.03 - 17.55
— PIVOTS 13.59, 14.99, 16.80, 18.20, 20.01

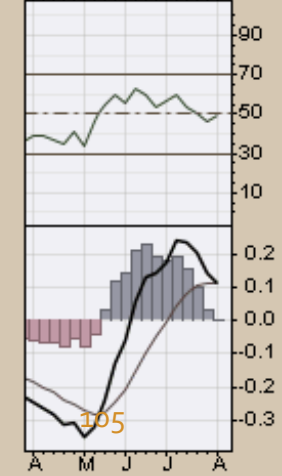
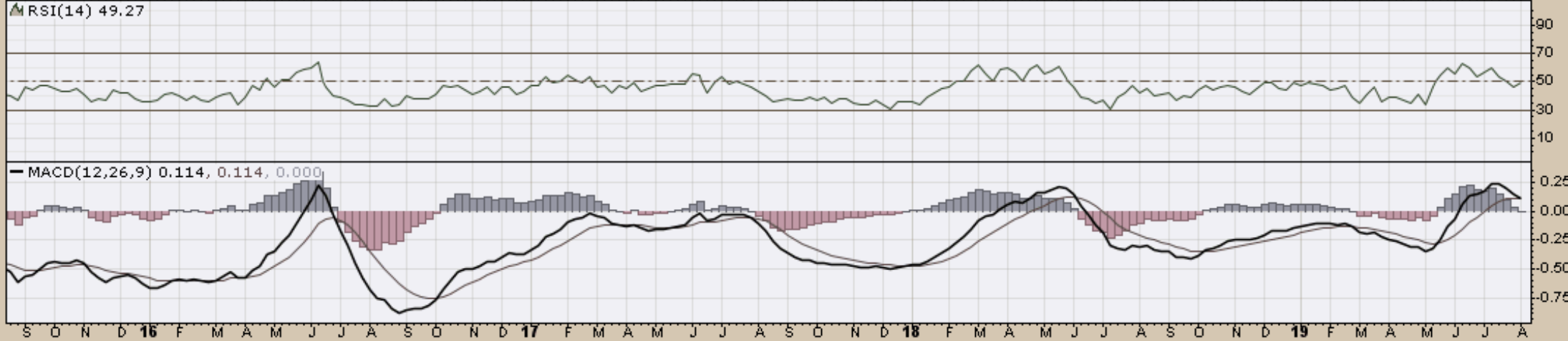
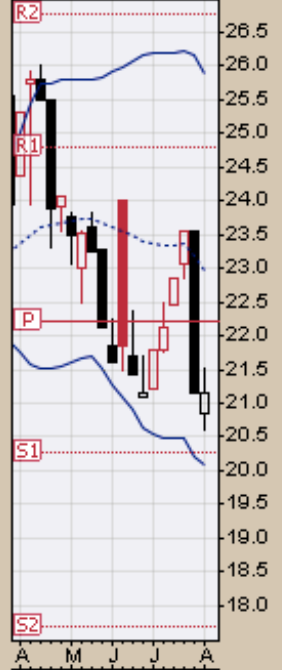
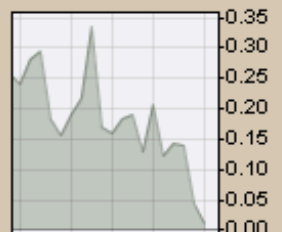
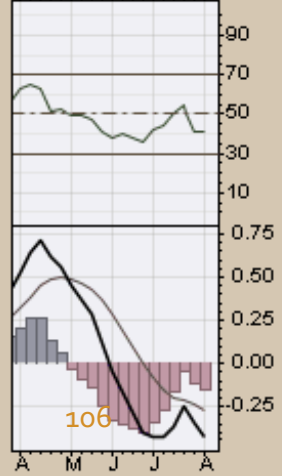
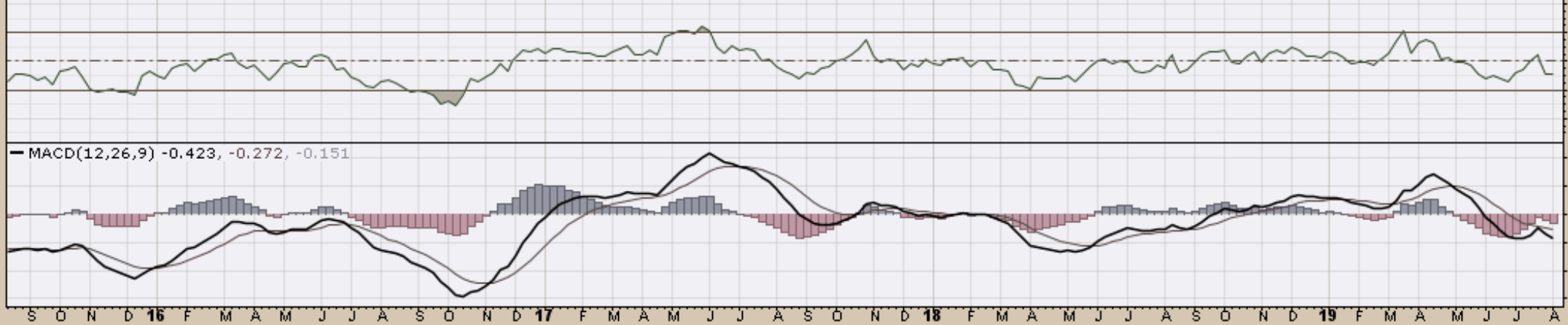


CHART D4. LIVESTOCK, WEEKLY CHART

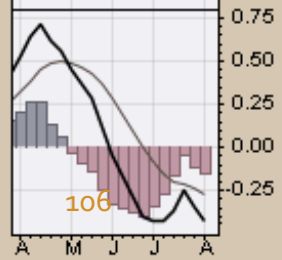
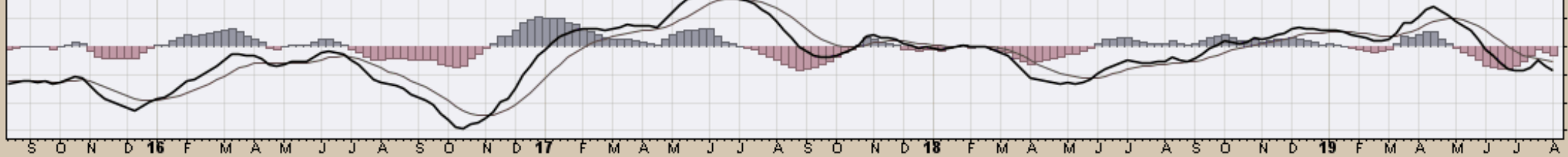
▲ COWTF (Weekly) 21.15
— BB(20,2,0) 20.08 - 22.98 - 25.88
— PIVOTS 17.67, 20.26, 22.21, 24.80, 26.75

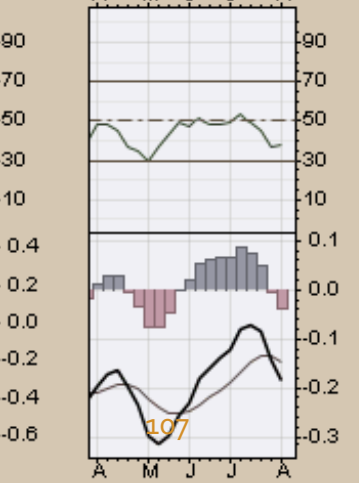
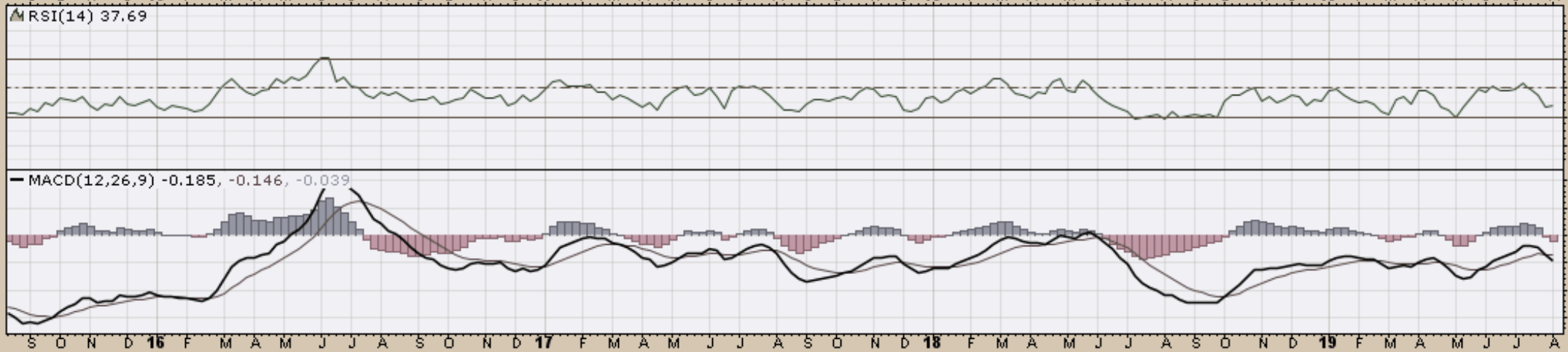
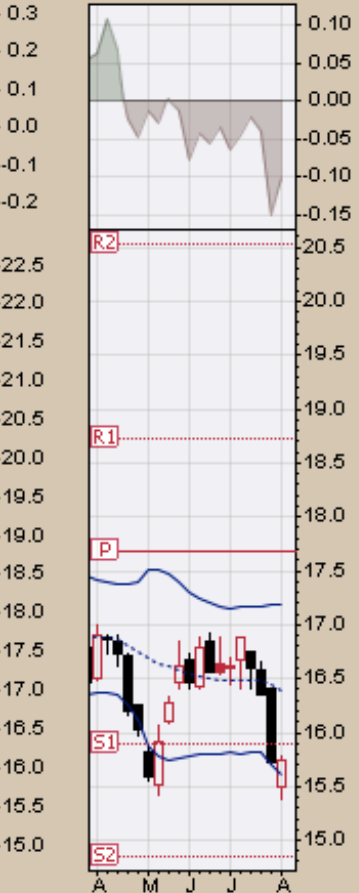


▲ RSI(14) 40.79



— MACD(12,26,9) -0.423, -0.272, -0.151





DBB (Weekly) 14.66
— BB(20,2,0) 14.32 - 15.73 - 17.15
— PIVOTS 11.92, 13.66, 16.65, 18.39, 21.37

CHART D6. BASE METALS, WEEKLY CHART

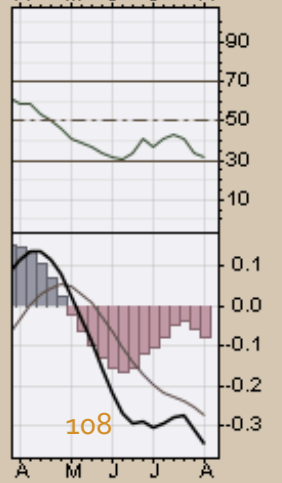
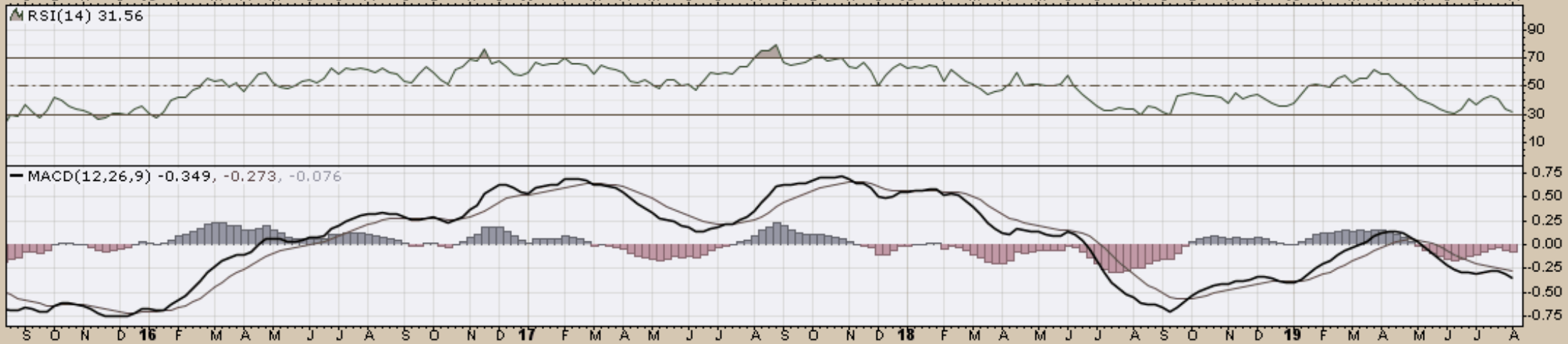


CHART D7. COMMODITY INDEX, WEEKLY CHART

▲ DBC (Weekly) 14.95
— BB(20,2,0) 14.91 - 15.68 - 16.44
— PIVOTS 11.77, 13.31, 15.86, 17.40, 19.95

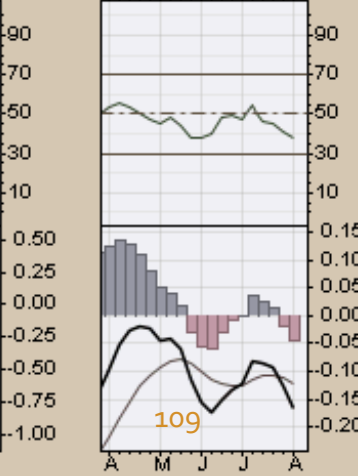
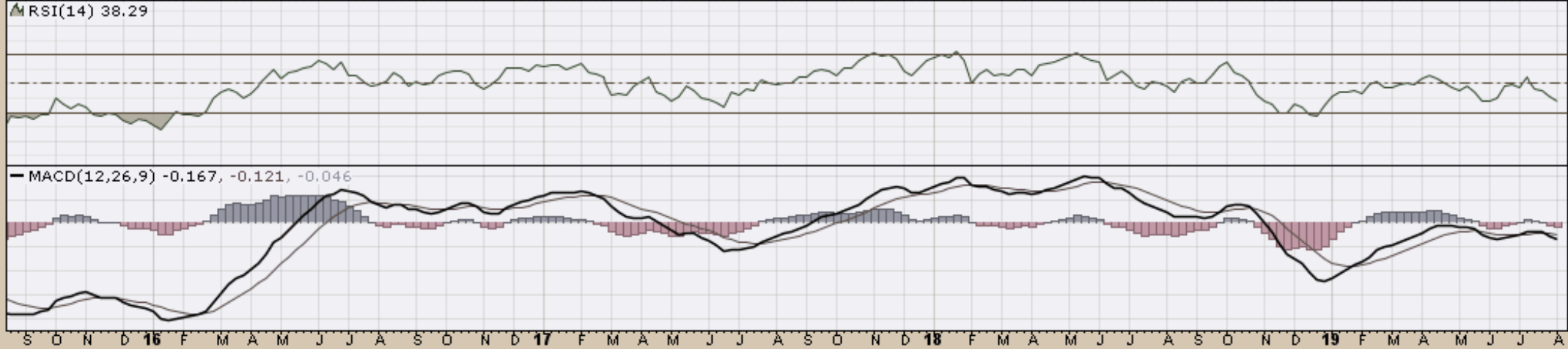
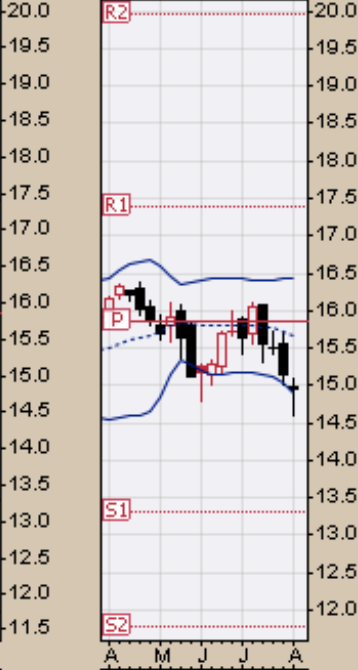
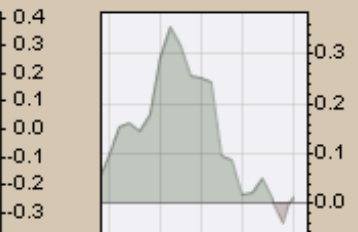
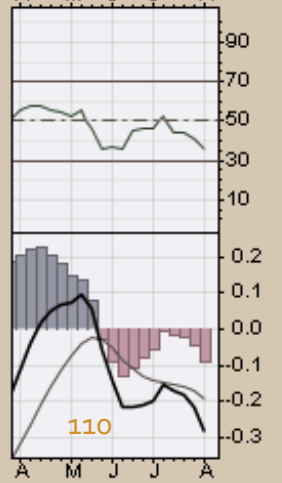
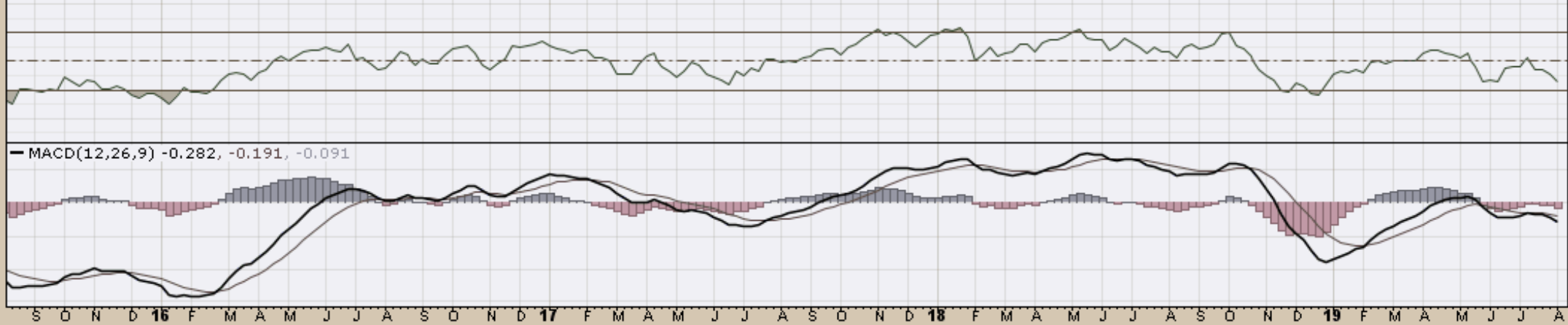


CHART D8. ENERGY, WEEKLY CHART

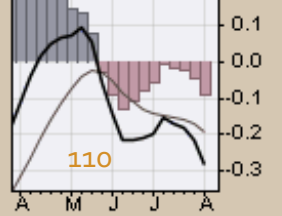
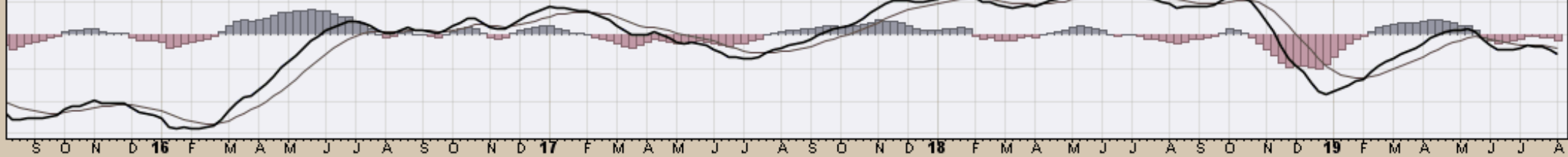
DBE (Weekly) 13.08
BB(20,2,0) 12.97 - 14.38 - 15.79
PIVOTS 8.02, 10.47, 14.52, 16.97, 21.02



▲ RSI(14) 36.40



MACD(12,26,9) -0.282, -0.191, -0.091



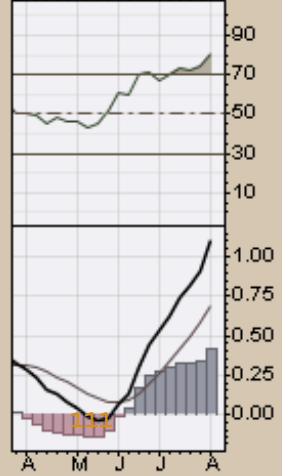
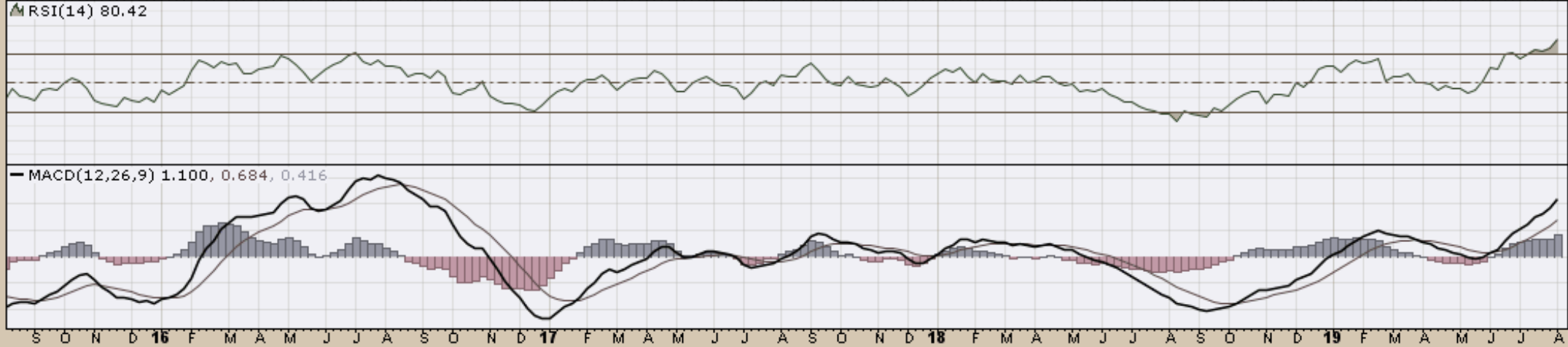
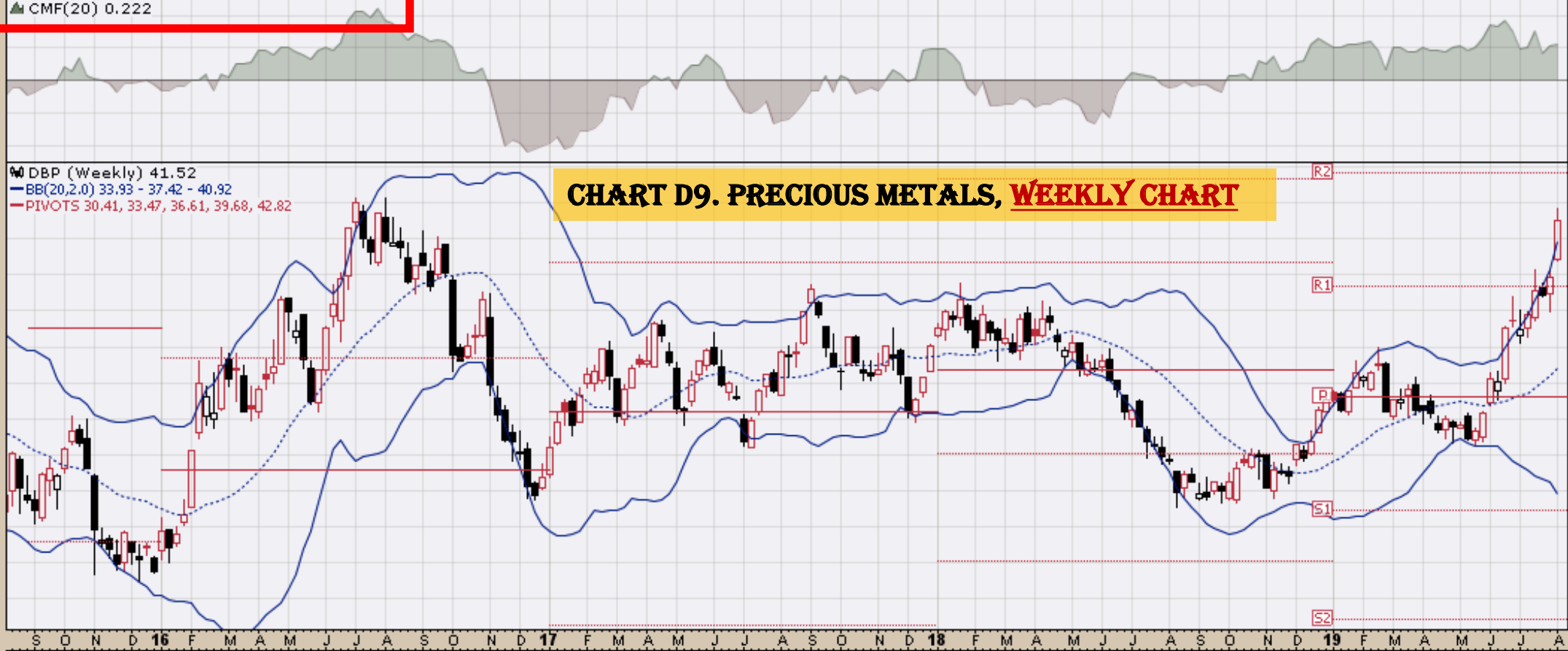
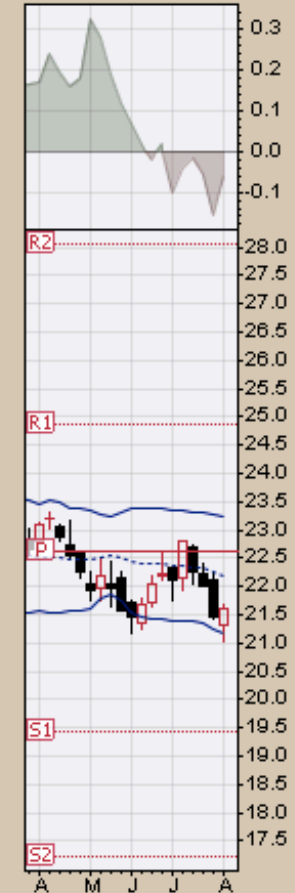
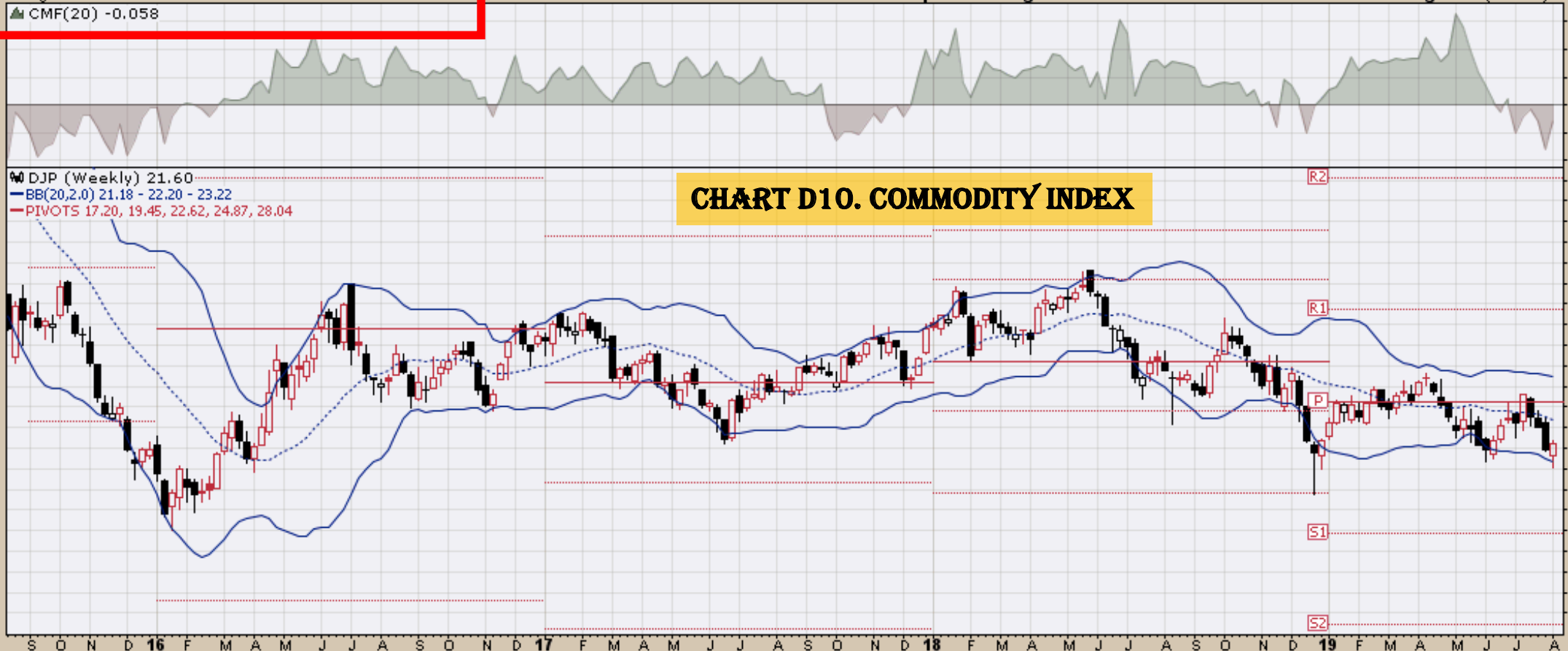
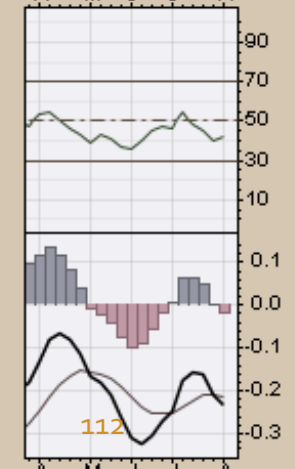
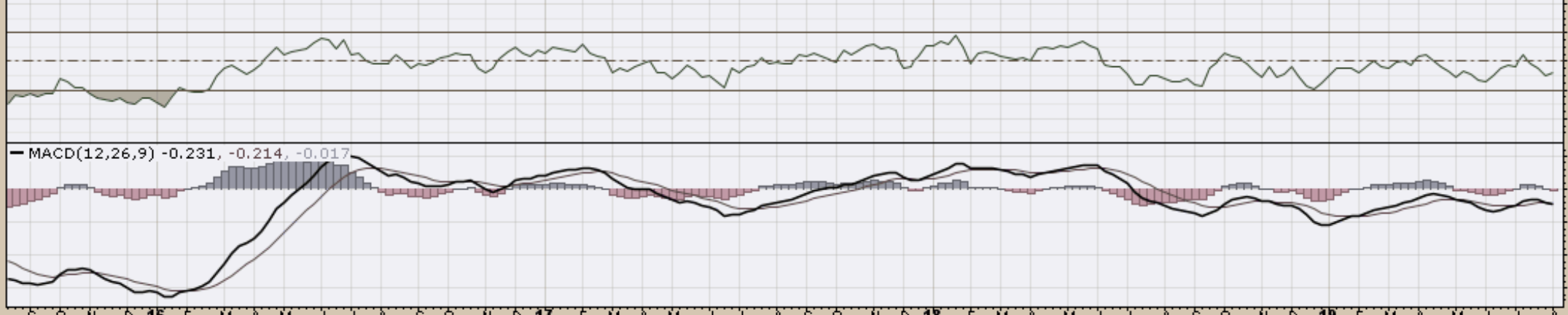


CHART D10. COMMODITY INDEX

% DJP (Weekly) 21.60
— BB(20,2,0) 21.18 - 22.20 - 23.22
— PIVOTS 17.20, 19.45, 22.62, 24.87, 28.04



▲ RSI(14) 41.84



— MACD(12,26,9) -0.231, -0.214, -0.017

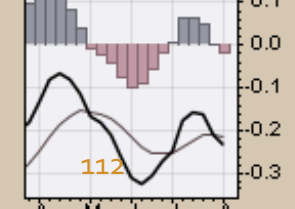
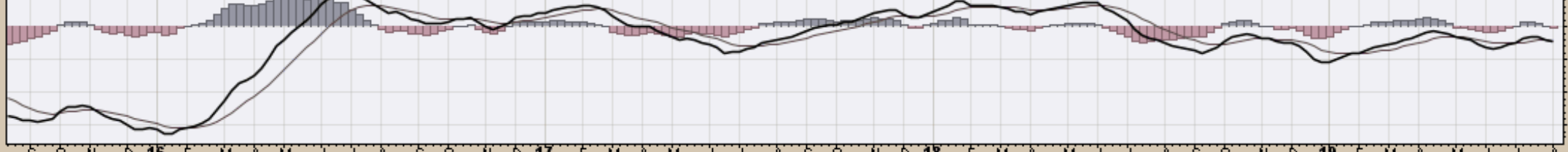


CHART D11. GOLD, WEEKLY CHART

GLD (Weekly) 141.26
BB(20,2,0) 114.37 - 127.21 - 140.05
PIVOTS 102.22, 111.83, 120.67, 130.28, 139.13

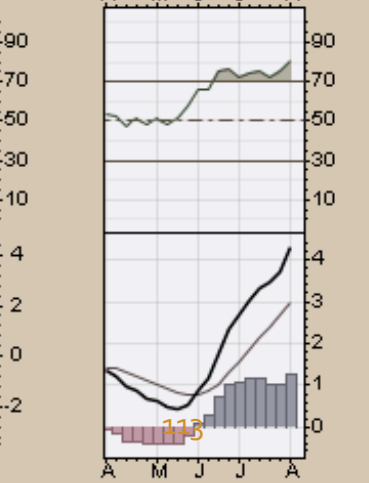
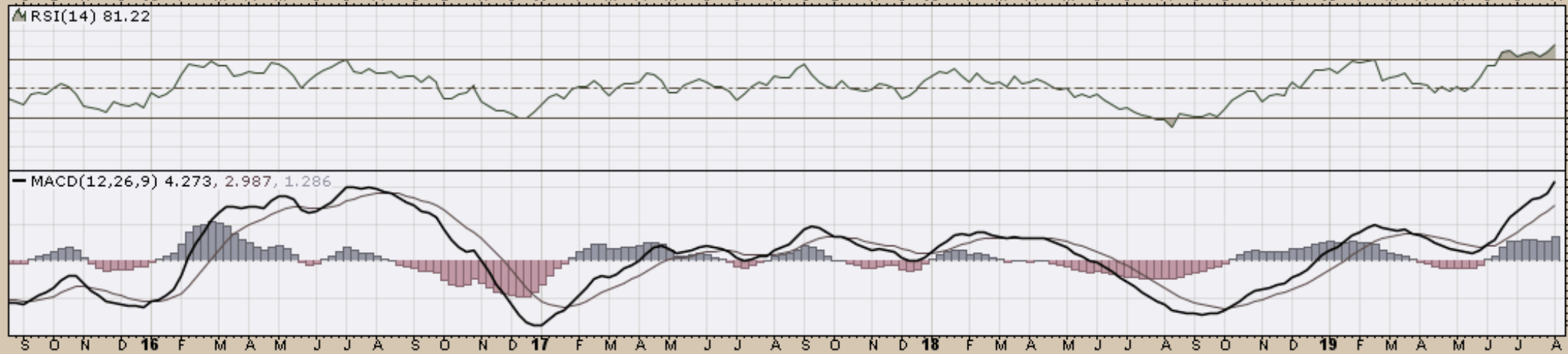


CHART D12. GOLDMAN SACHS TOTAL RETURN COMMODITY INDEX, WEEKLY CHART

▲ GSP (Weekly) 13.93
— BB(20,2,0) 13.71 - 14.98 - 16.25
— PIVOTS 9.21, 11.34, 14.87, 17.00, 20.52

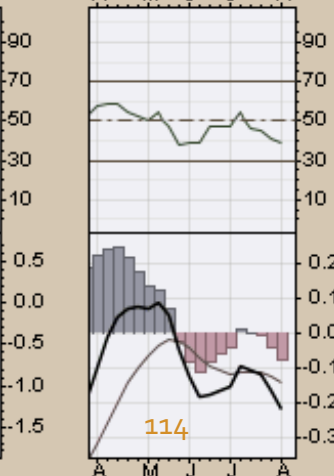
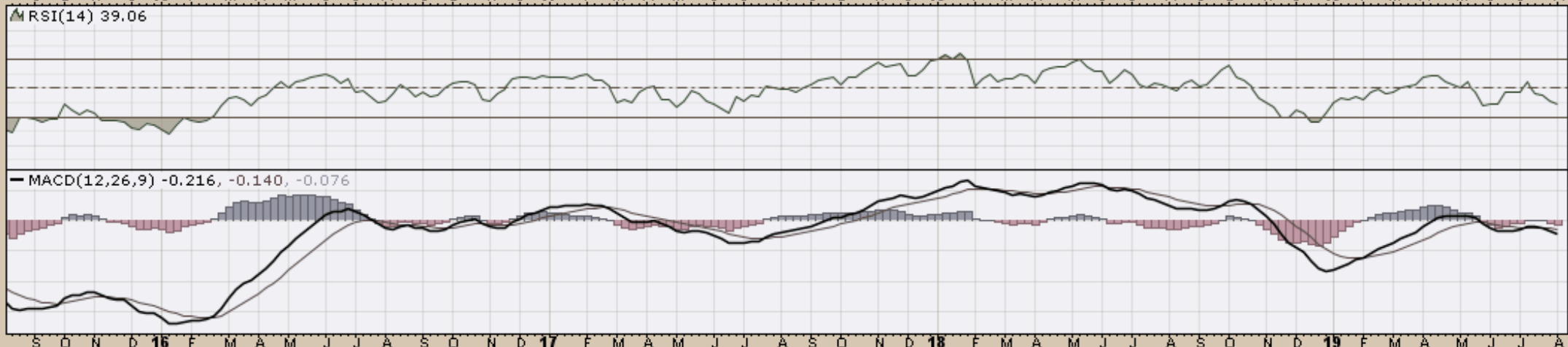
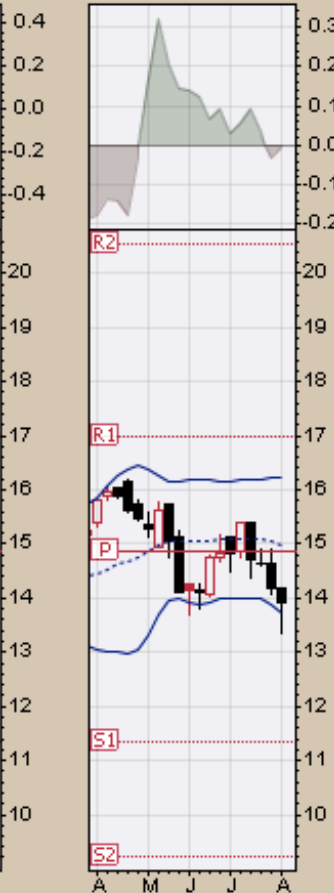
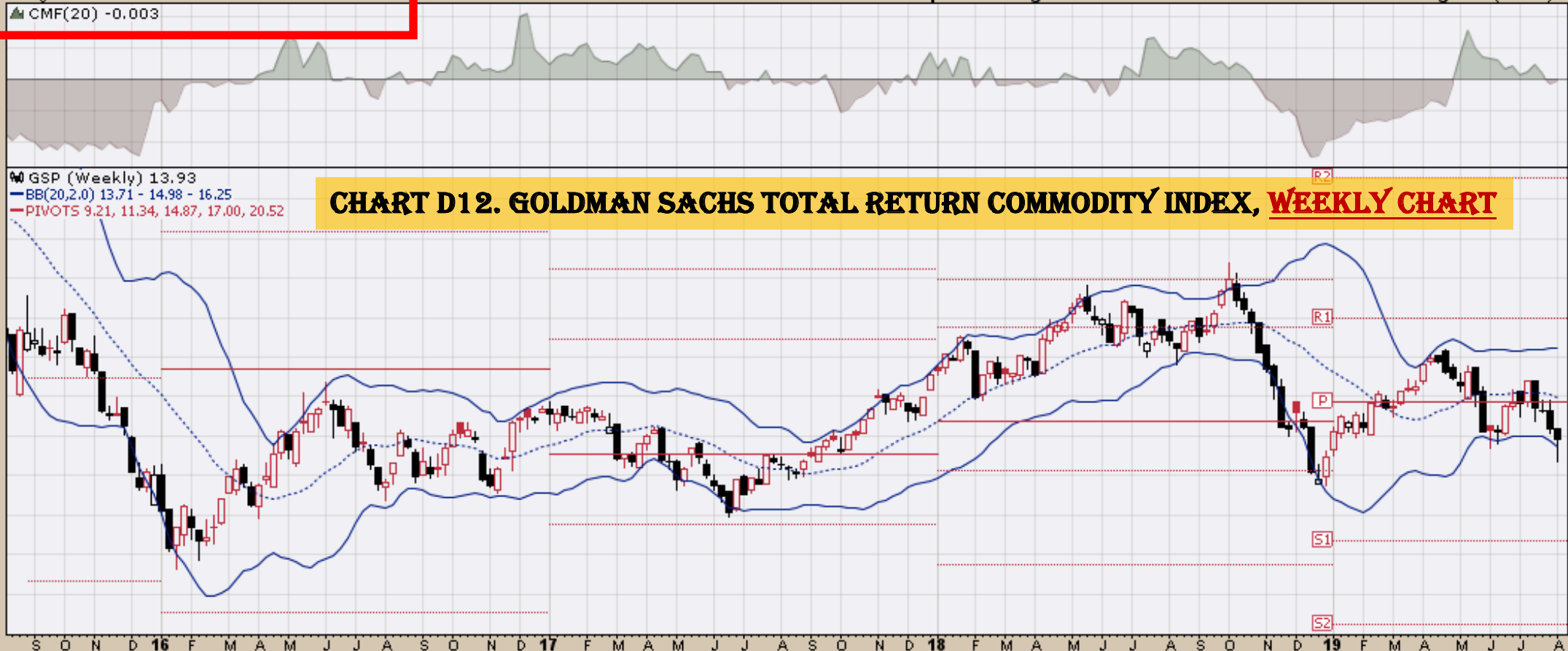
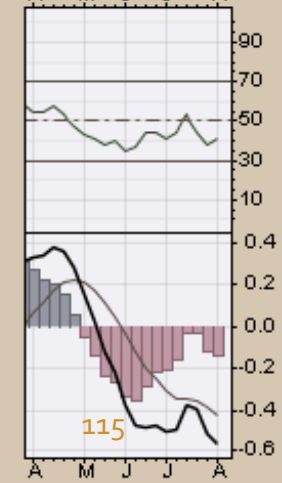
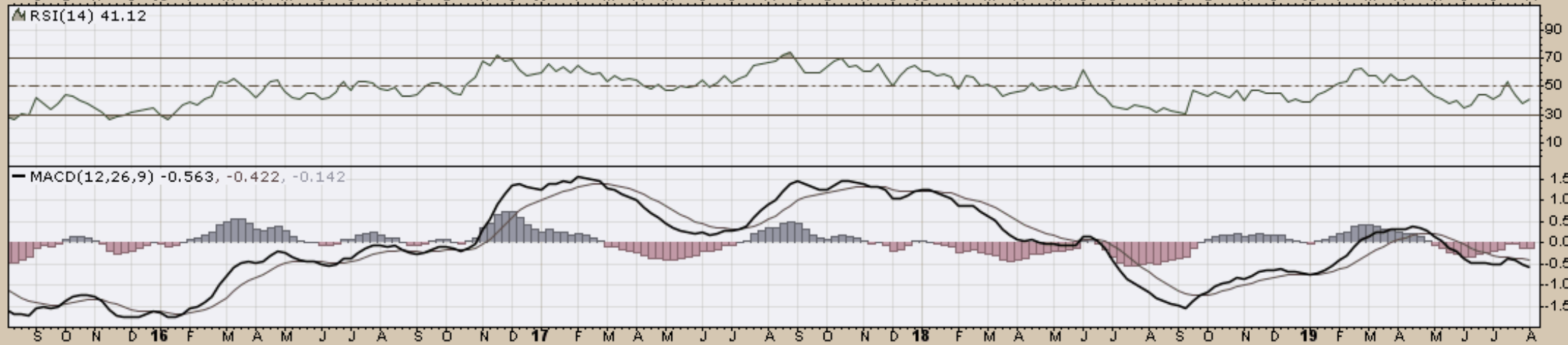
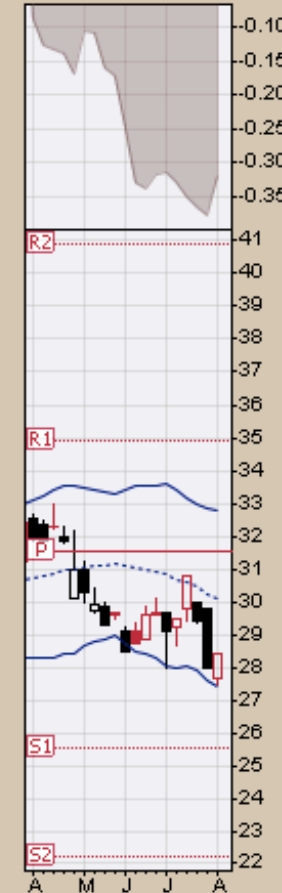
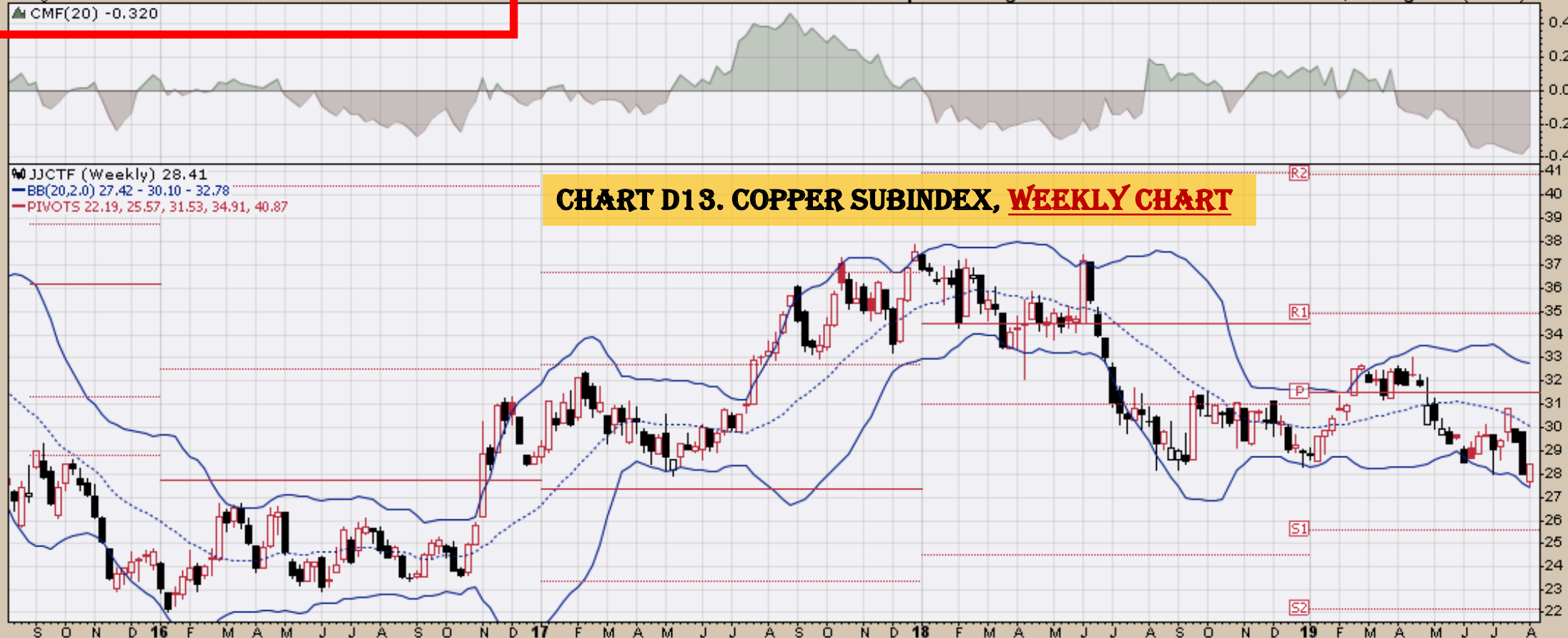


CHART D13. COPPER SUBINDEX, WEEKLY CHART

▲ JJCTF (Weekly) 28.41
— BB(20,2,0) 27.42 - 30.10 - 32.78
— PIVOTS 22.19, 25.57, 31.53, 34.91, 40.87



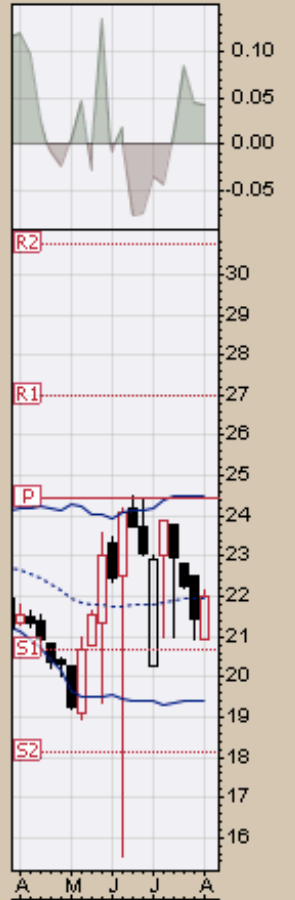
JJGTF iPath Bloomberg Grains Subindex Total Return ETN OTC Mkt.
 9-Aug-2019
 ▲ CMF(20) 0.043

Open 20.95 High 22.15 Low 20.95 Close 22.00 Volume 14.1K Chg +0.58 (+2.71%)▲

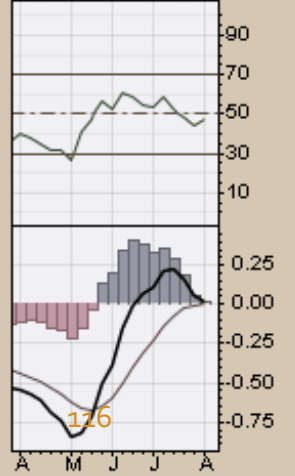
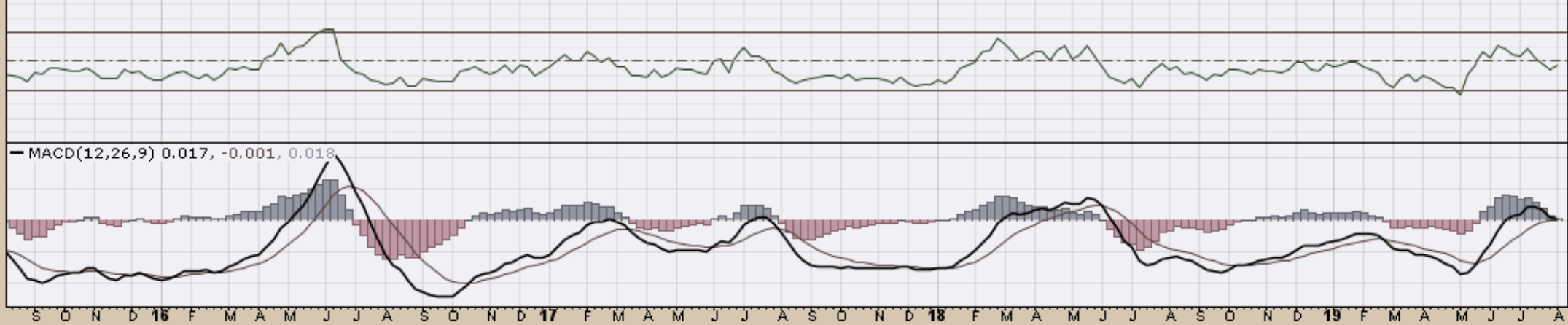
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CHART D14. GRAINS, WEEKLY CHART

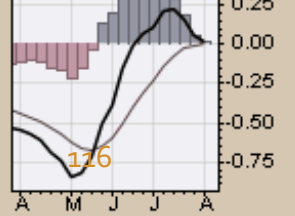
▲ JJGTF (Weekly) 22.00
 — BB(20,2,0) 19.39 - 21.95 - 24.51
 — PIVOTS 18.11, 20.69, 24.42, 27.00, 30.73



▲ RSI(14) 47.88



— MACD(12,26,9) 0.017, -0.001, 0.018



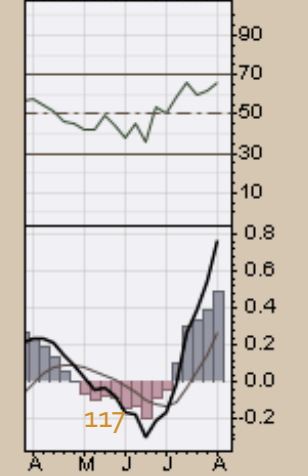
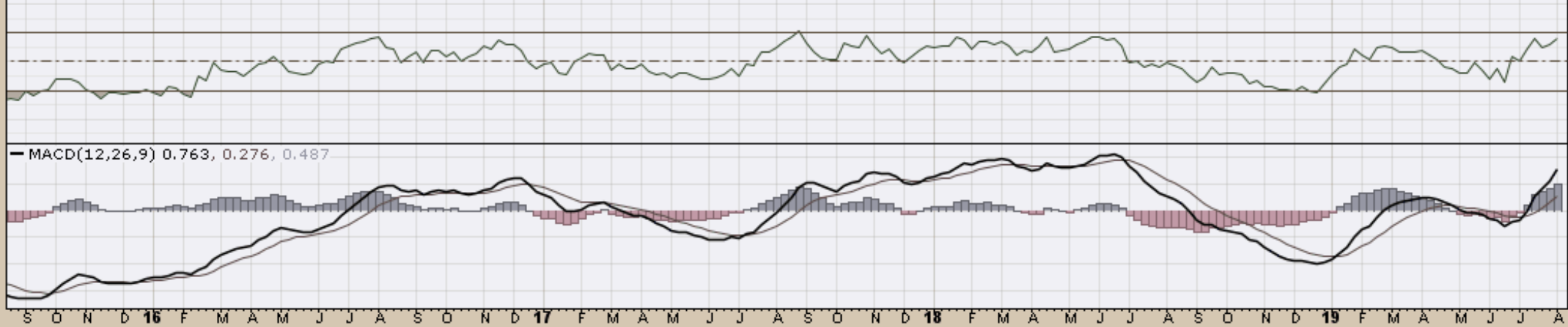
9-Aug-2019
▲ CMF(20) -0.134

CHART D15. NICKEL, WEEKLY CHART

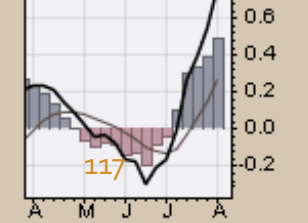
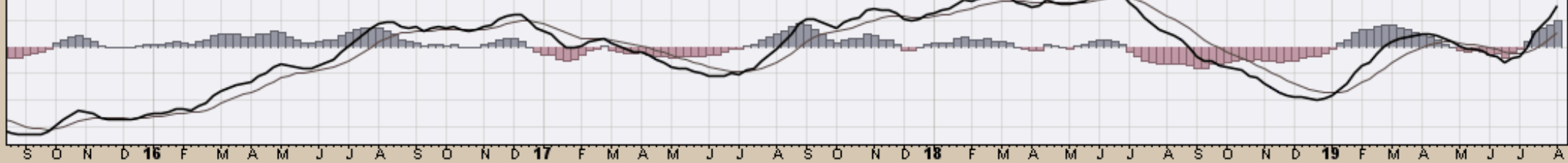
%% JJNTF (Weekly) 19.02
— BB(20,2,0) 12.21 - 15.32 - 18.43
— PIVOTS 7.59, 10.25, 14.90, 17.56, 22.21



▲ RSI(14) 66.65



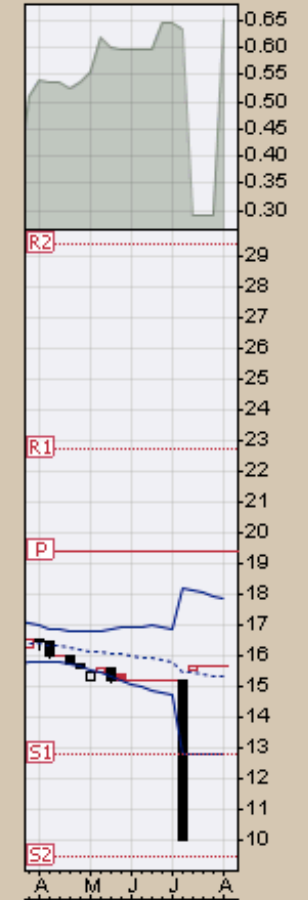
— MACD(12,26,9) 0.763, 0.276, 0.487



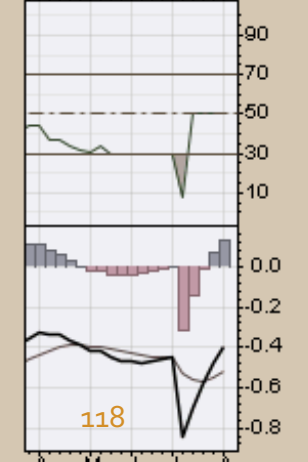
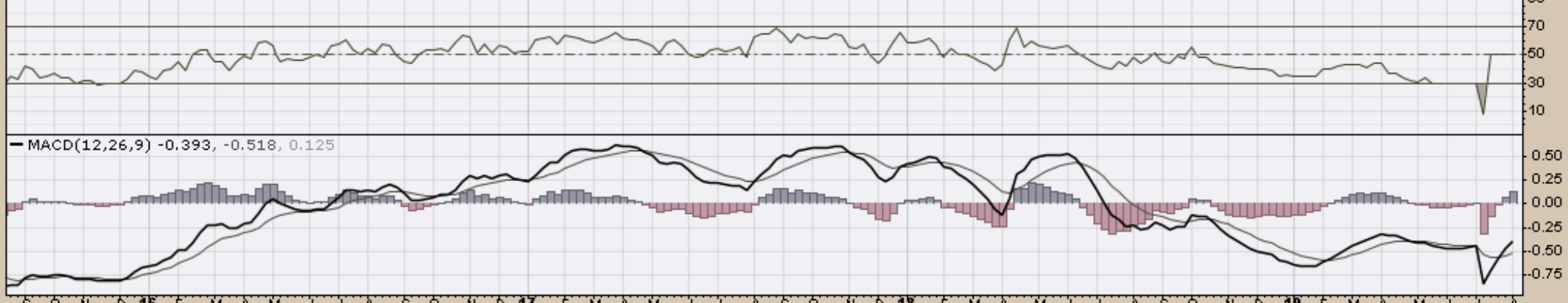
9-Aug-2019
▲ CMF(20) 0.651

▲ JJUFF (Weekly) 15.63
— BB(20,2,0) 12.75 - 15.31 - 17.86
— PIVOTS 9.40, 12.77, 19.38, 22.75, 29.36

CHART D16. ALUMINUM, WEEKLY CHART

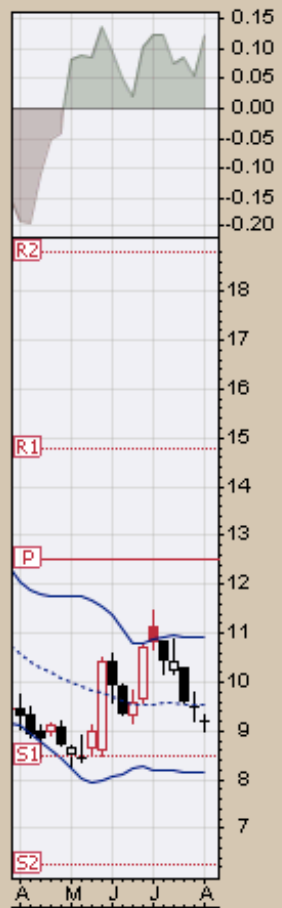


▲ RSI(14) 50.59



▲ JJOFF (Weekly) 9.20
— BB(20,2,0) 8.14 - 9.53 - 10.92
— PIVOTS 6.24, 8.50, 12.52, 14.77, 18.79

CHART D17. COFFEE, WEEKLY CHART



▲ RSI(14) 41.83

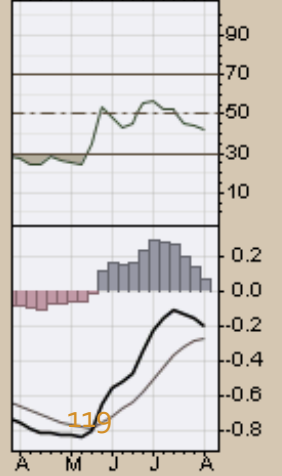
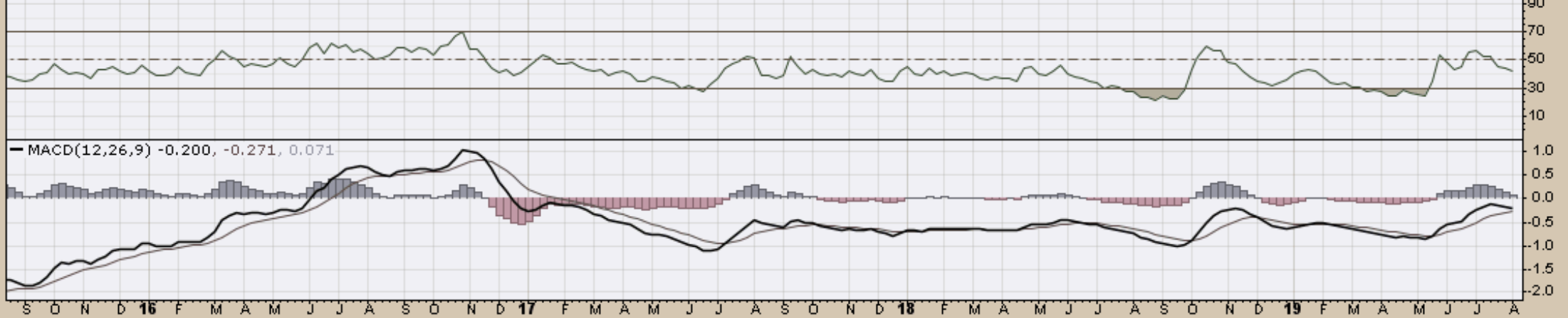
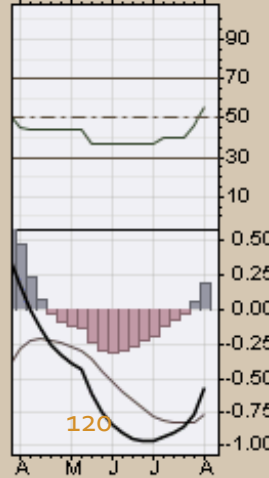
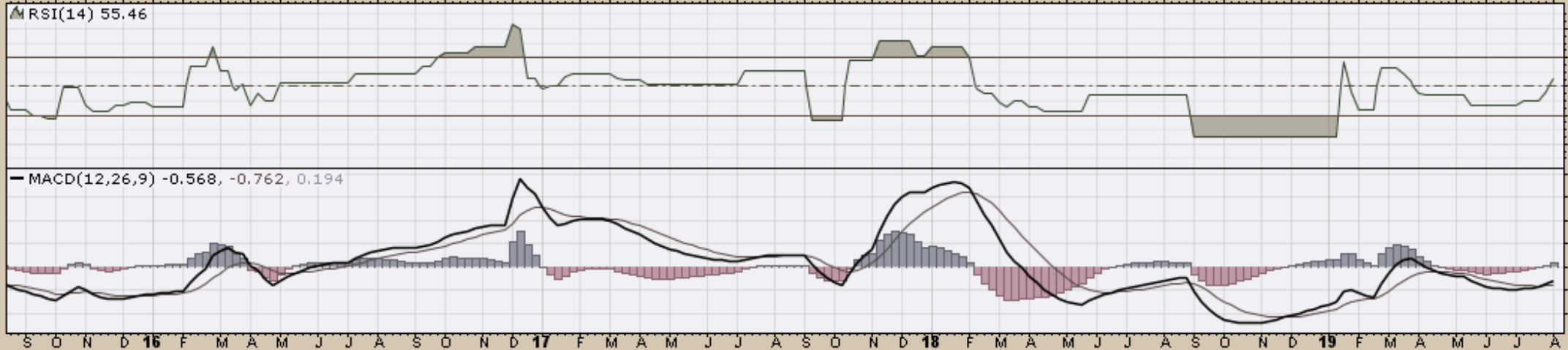


CHART D18. LEAD, WEEKLY CHART

LD (Weekly) 44.00
BB(20,2,0) 40.31 - 42.81 - 45.30
PIVOTS 26.66, 34.89, 48.44, 56.67, 70.22



LIT Global X Lithium ETF NYSE
9-Aug-2019
▲ CMF(20) 0.170

Open 24.25 High 25.20 Low 23.70 Close 24.87 Volume 968.6K Chg -0.04 (-0.16%)

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CHART D19. LITHIUM, WEEKLY CHART

▲ LIT (Weekly) 24.87
— BB(20,2,0) 23.61 - 26.47 - 29.33
— PIVOTS 15.60, 21.31, 30.58, 36.29, 45.56

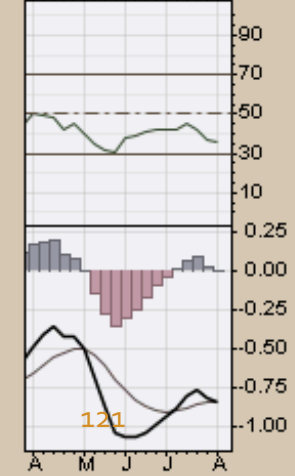
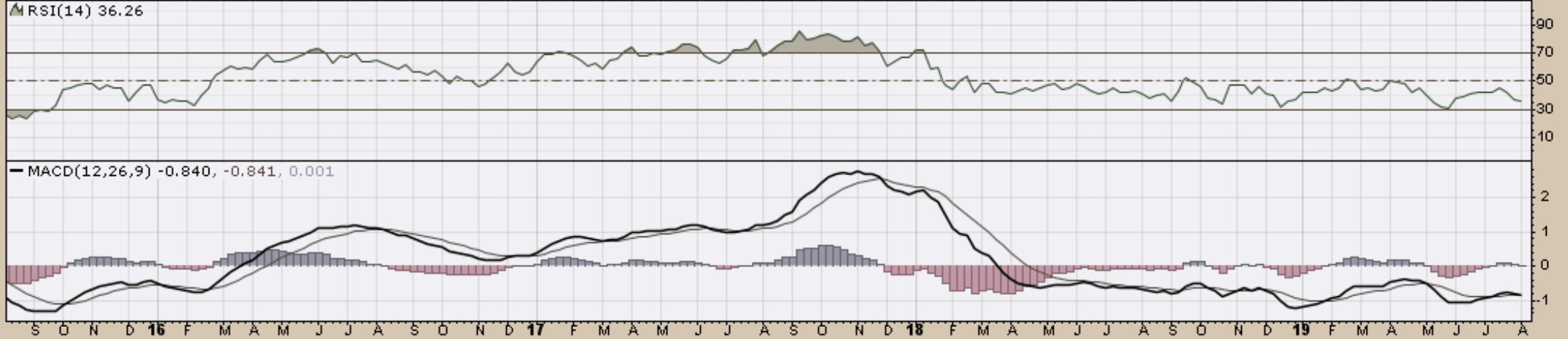
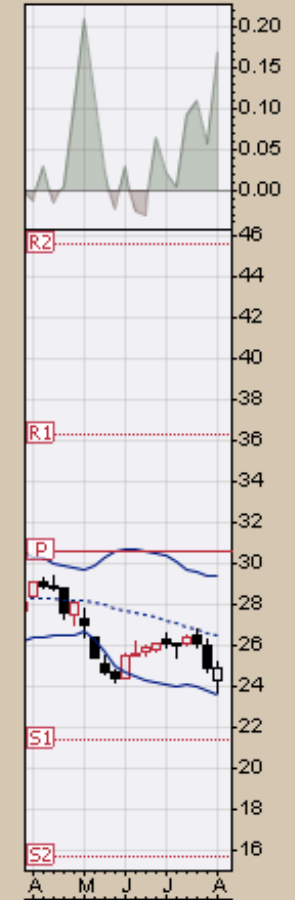
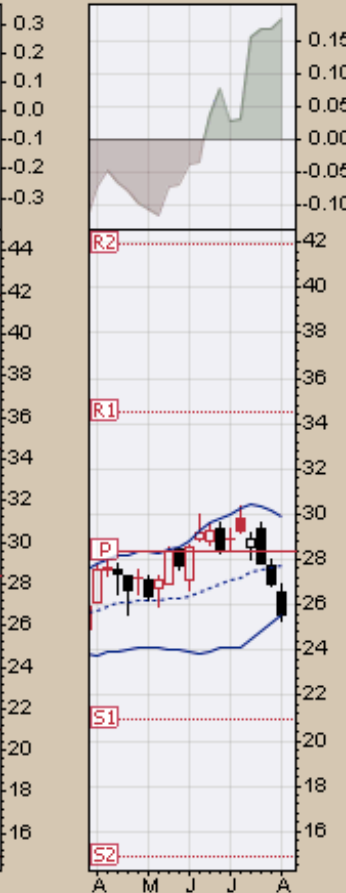
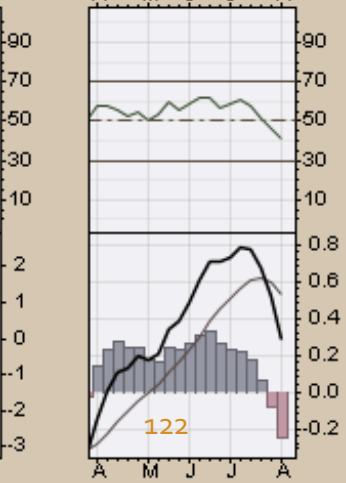
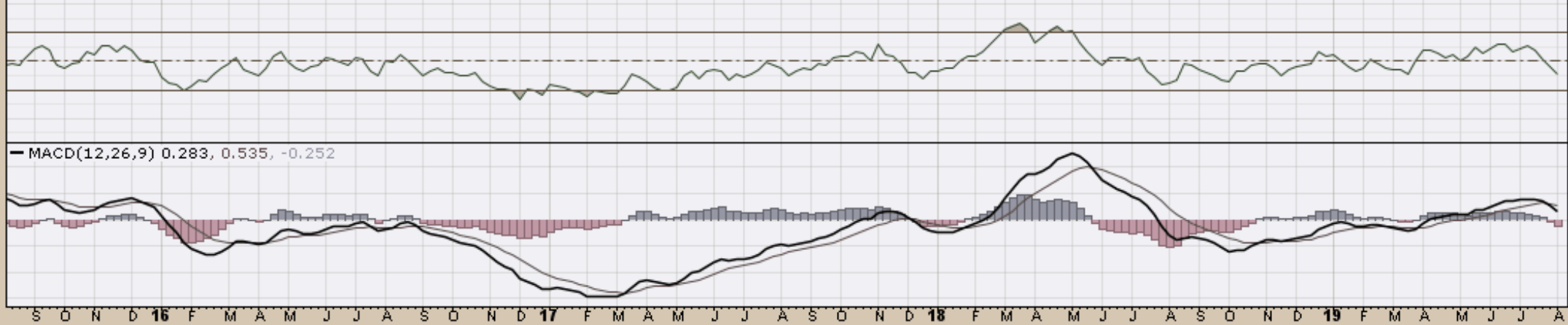


CHART D20. COCOA, WEEKLY CHART

NIB (Weekly) 25.56
BB(20,2.0) 25.55 - 27.74 - 29.92
PIVOTS 14.85, 20.96, 28.37, 34.48, 41.89

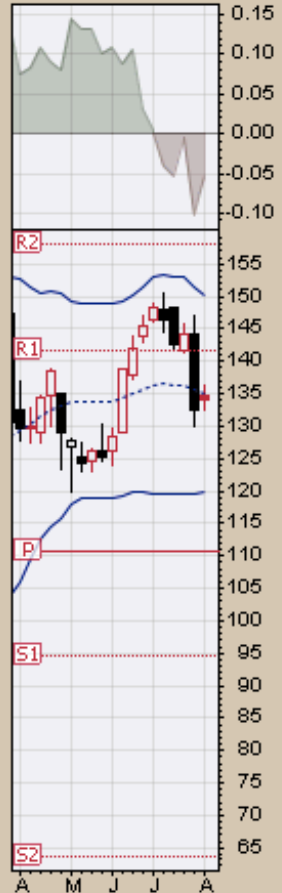
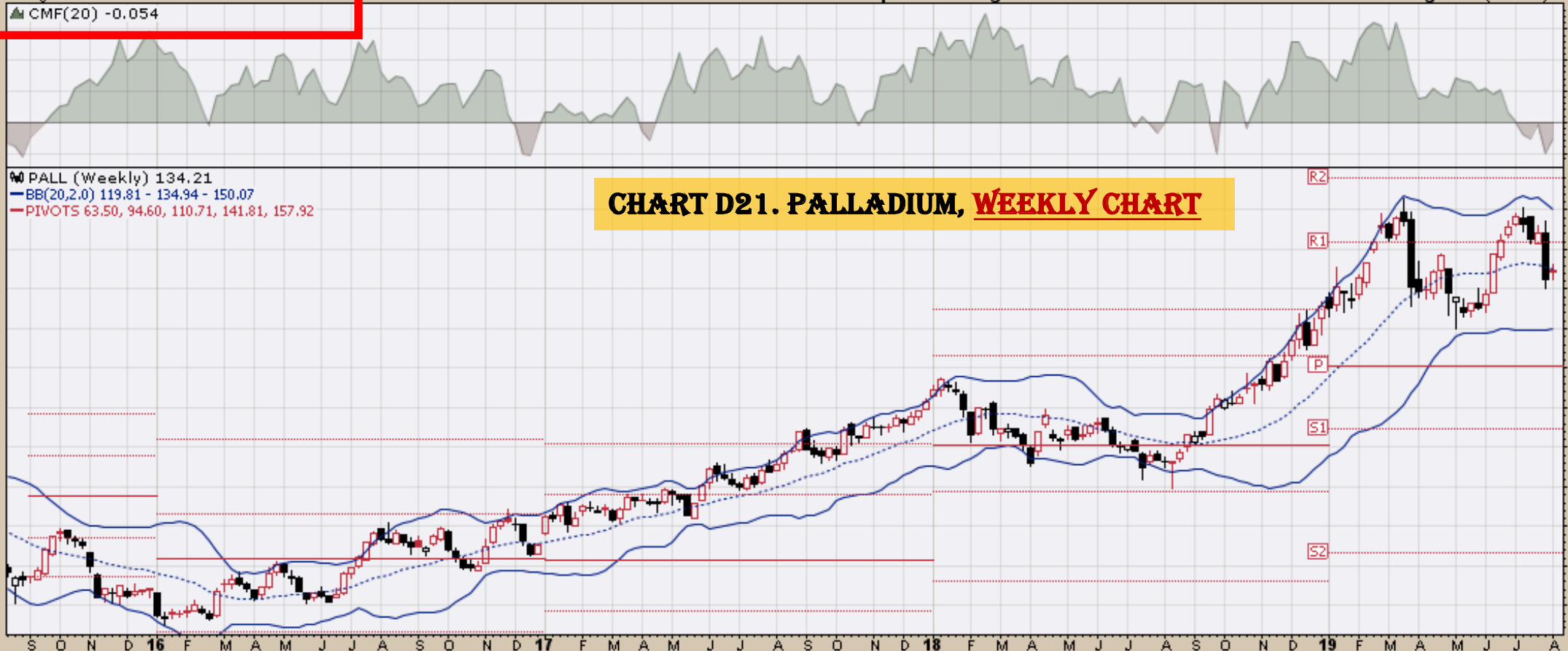


RSI(14) 40.74



▲ PALL (Weekly) 134.21
— BB(20,2,0) 119.81 - 134.94 - 150.07
— PIVOTS 63.50, 94.60, 110.71, 141.81, 157.92

CHART D21. PALLADIUM, WEEKLY CHART



▲ RSI(14) 50.38

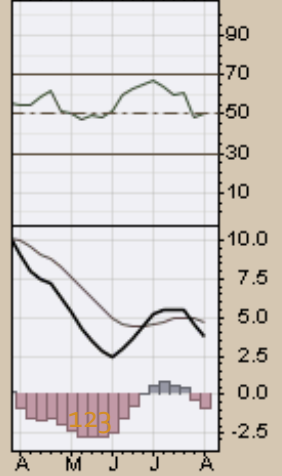
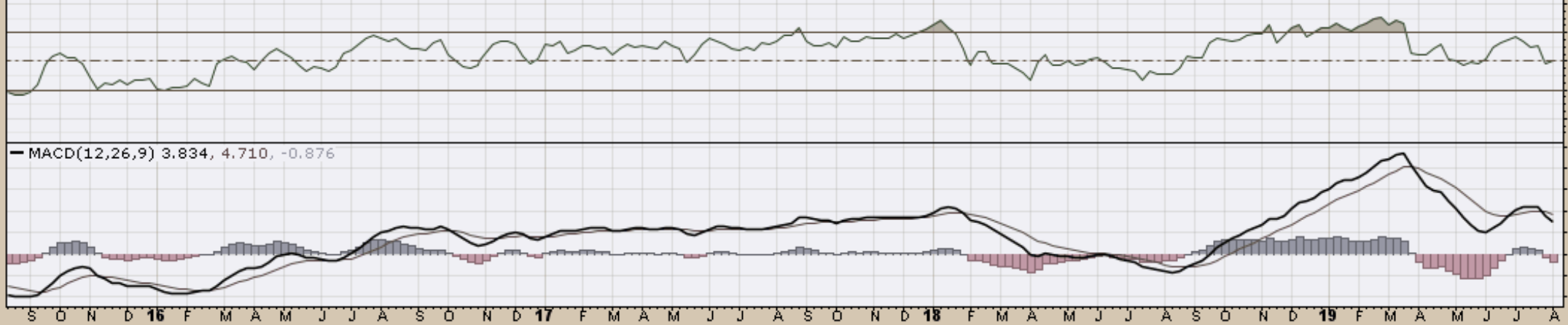
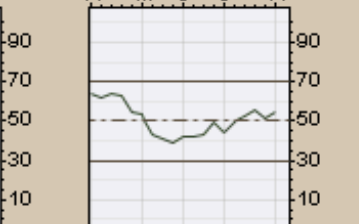
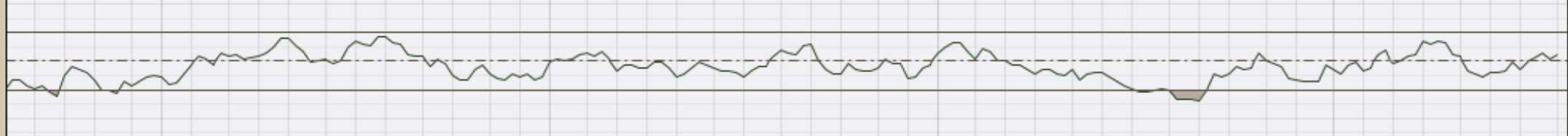


CHART D22. PLATINUM, WEEKLY CHART

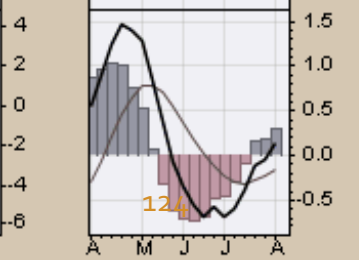
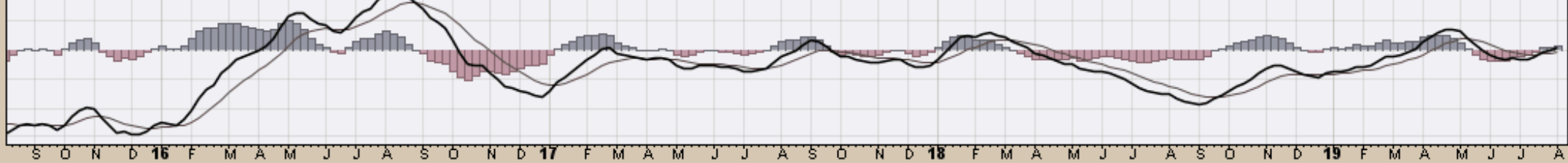
▲ PPLT (Weekly) 81.35
— BB(20,2,0) 73.27 - 79.89 - 86.50
— PIVOTS 56.56, 67.22, 82.58, 93.24, 108.60



▲ RSI(14) 55.08



— MACD(12,26,9) 0.144, -0.155, 0.299



9-Aug-2019

Open 20.69 High 21.00 Low 19.80 Close 20.92 Volume 12.8K Chg -0.52 (-2.43%)

▲ CMF(20) -0.085

SGGFF (Weekly) 20.92
BB(20,2,0) 20.11 - 22.07 - 24.04
PIVOTS 10.84, 16.09, 23.74, 28.99, 36.64

CHART D23. SUGAR, WEEKLY CHART

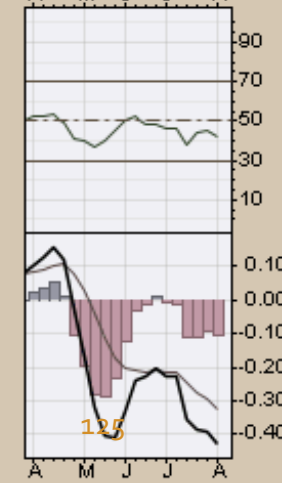
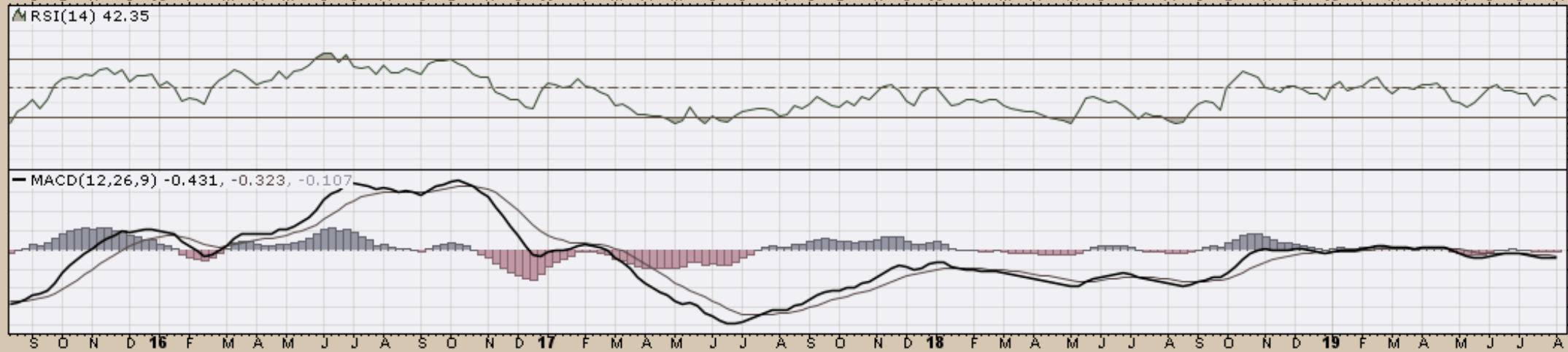
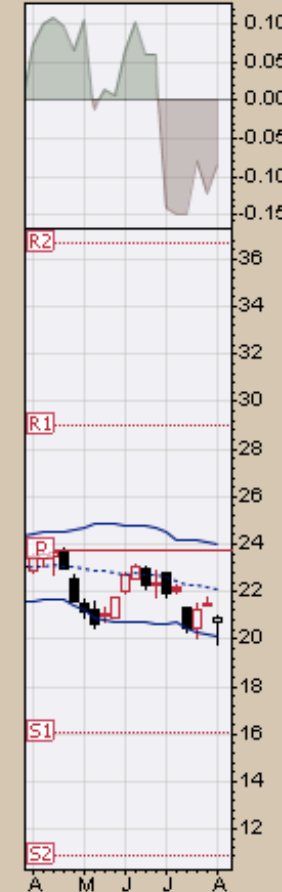
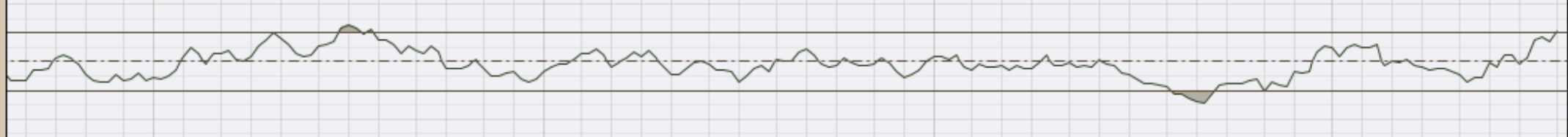


CHART D24. SILVER, WEEKLY CHART

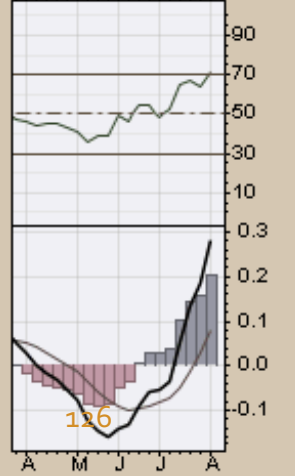
SLV (Weekly) 15.89
BB(20,2,0) 13.07 - 14.29 - 15.50
PIVOTS 11.30, 13.01, 14.83, 16.54, 18.36



▲ RSI(14) 71.10

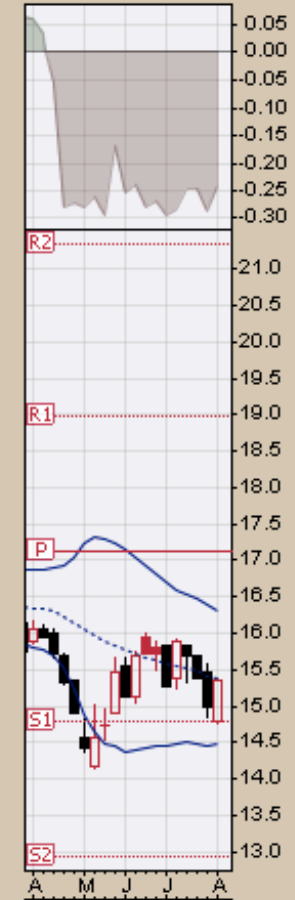
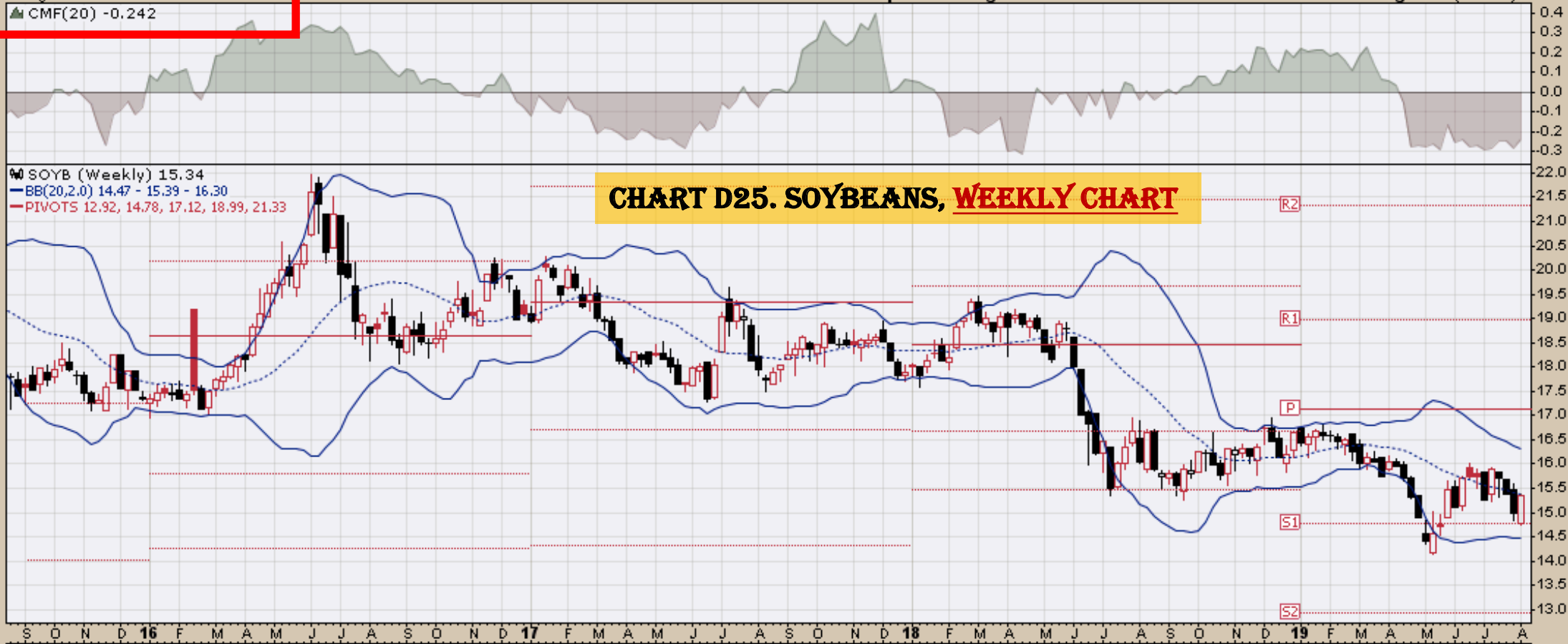


MACD(12,26,9) 0.279, 0.078, 0.201



SOYB (Weekly) 15.34
— BB(20,2,0) 14.47 - 15.39 - 16.30
— PIVOTS 12.92, 14.78, 17.12, 18.99, 21.33

CHART D25. SOYBEANS, WEEKLY CHART



▲ RSI(14) 46.52

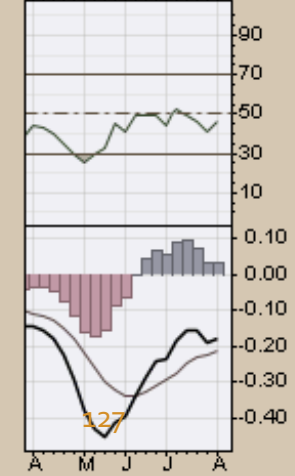
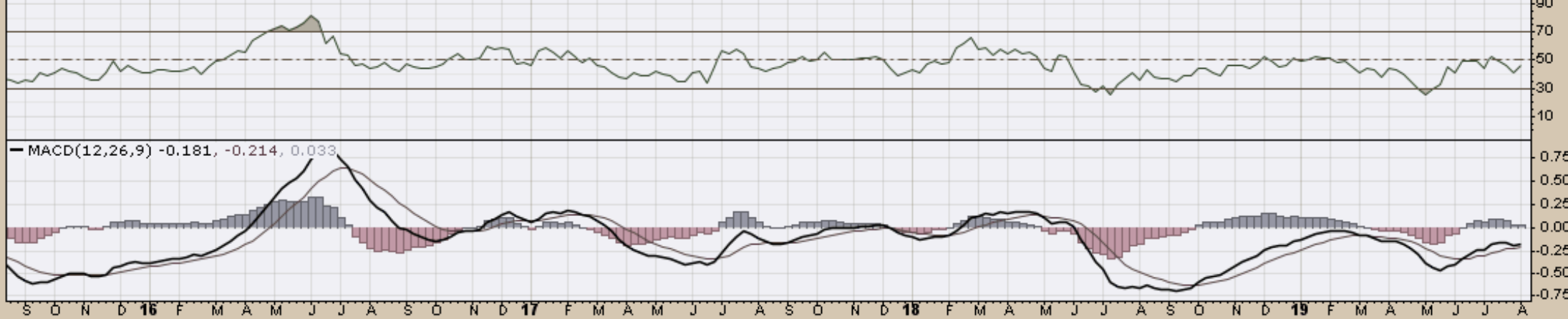
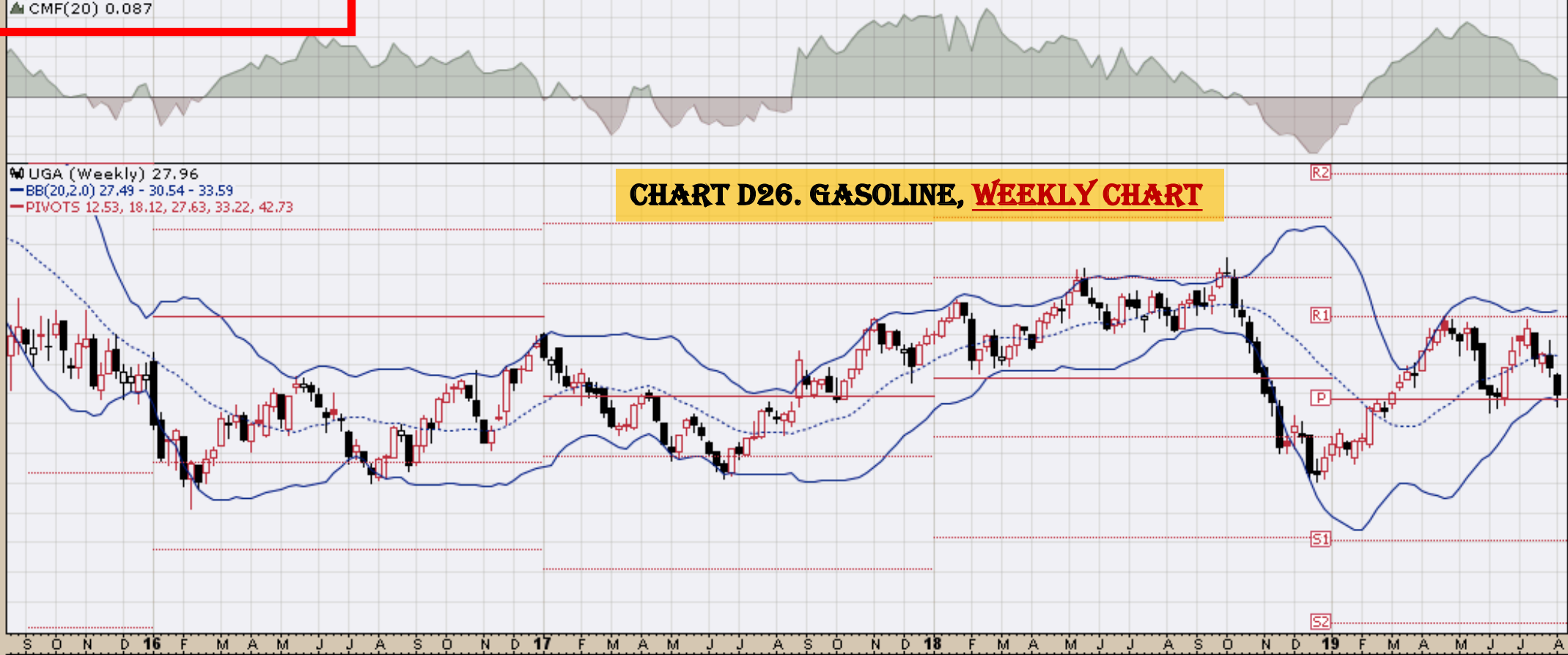


CHART D26. GASOLINE, WEEKLY CHART

UGA (Weekly) 27.96
— BB(20,2,0) 27.49 - 30.54 - 33.59
— PIVOTS 12.53, 18.12, 27.63, 33.22, 42.73



▲ RSI(14) 42.93

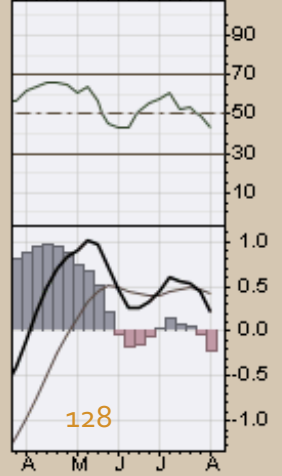
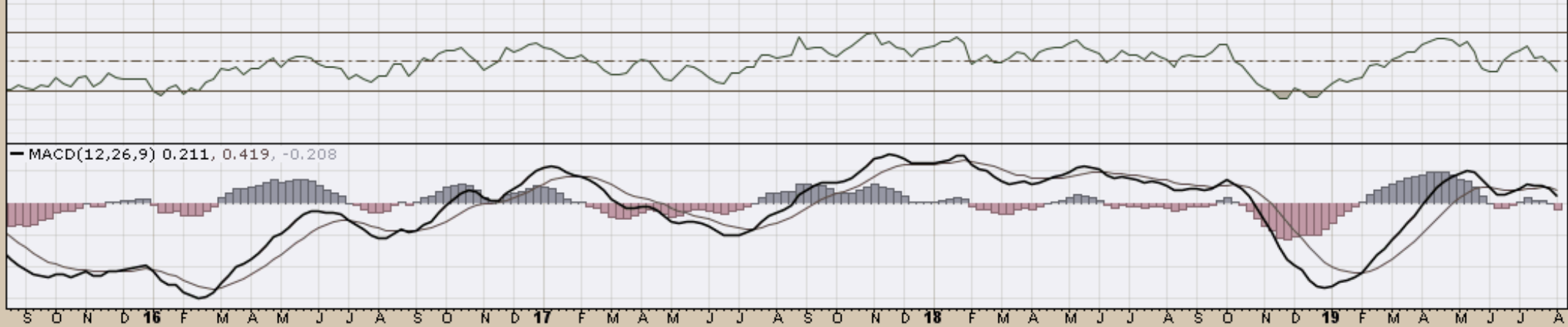


CHART 27. NATURAL GAS, WEEKLY CHART

UNG (Weekly) 18.44
BB(20,2,0) 17.70 - 21.09 - 24.47
PIVOTS 10.53, 17.81, 28.84, 36.12, 47.15

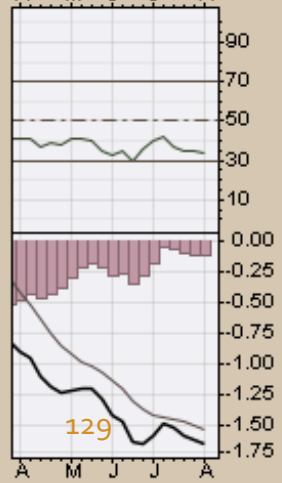
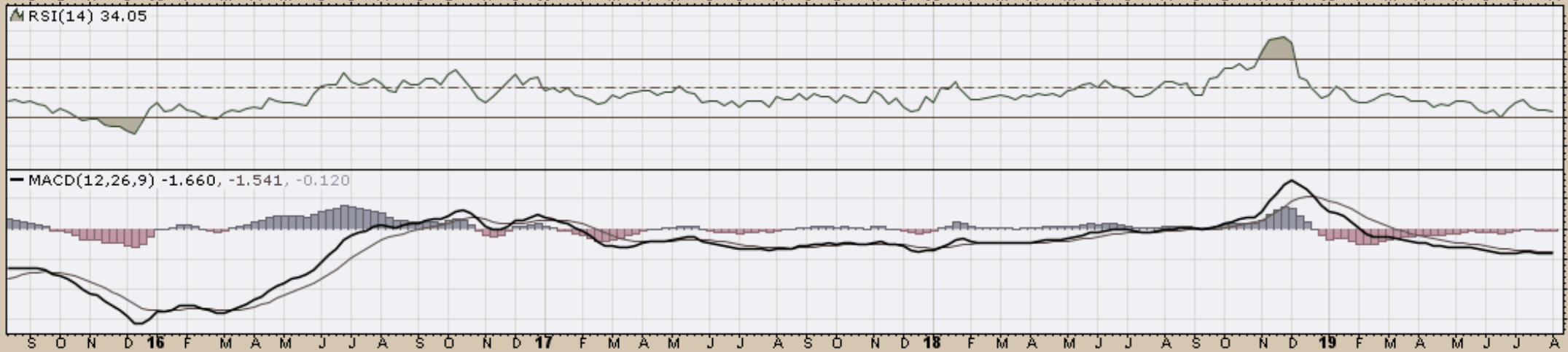
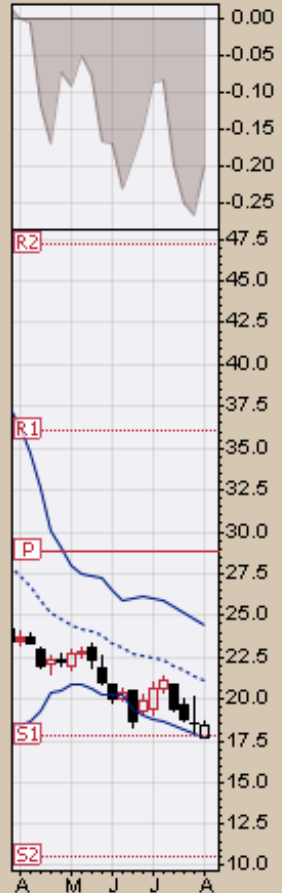


CHART D28. US 12 MONTH OIL FUND, WEEKLY CHART

USL (Weekly) 20.21
BB(20,2,0) 19.49 - 21.98 - 24.47
PIVOTS 10.02, 14.47, 21.51, 25.96, 33.00

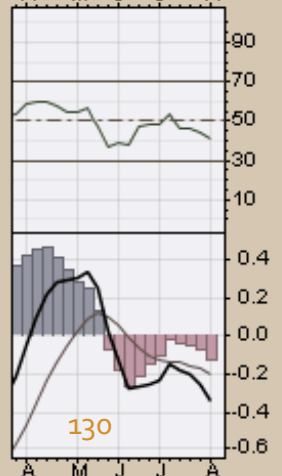
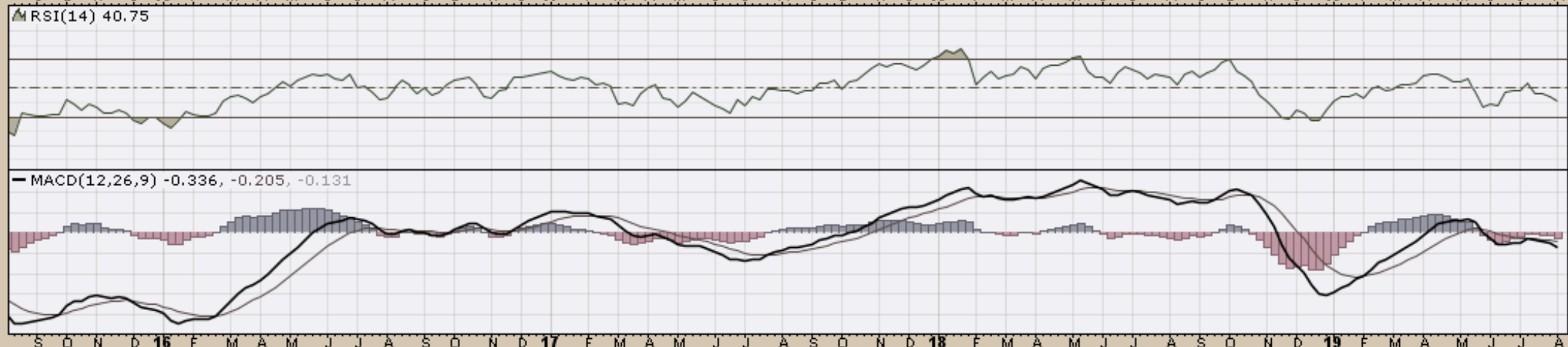
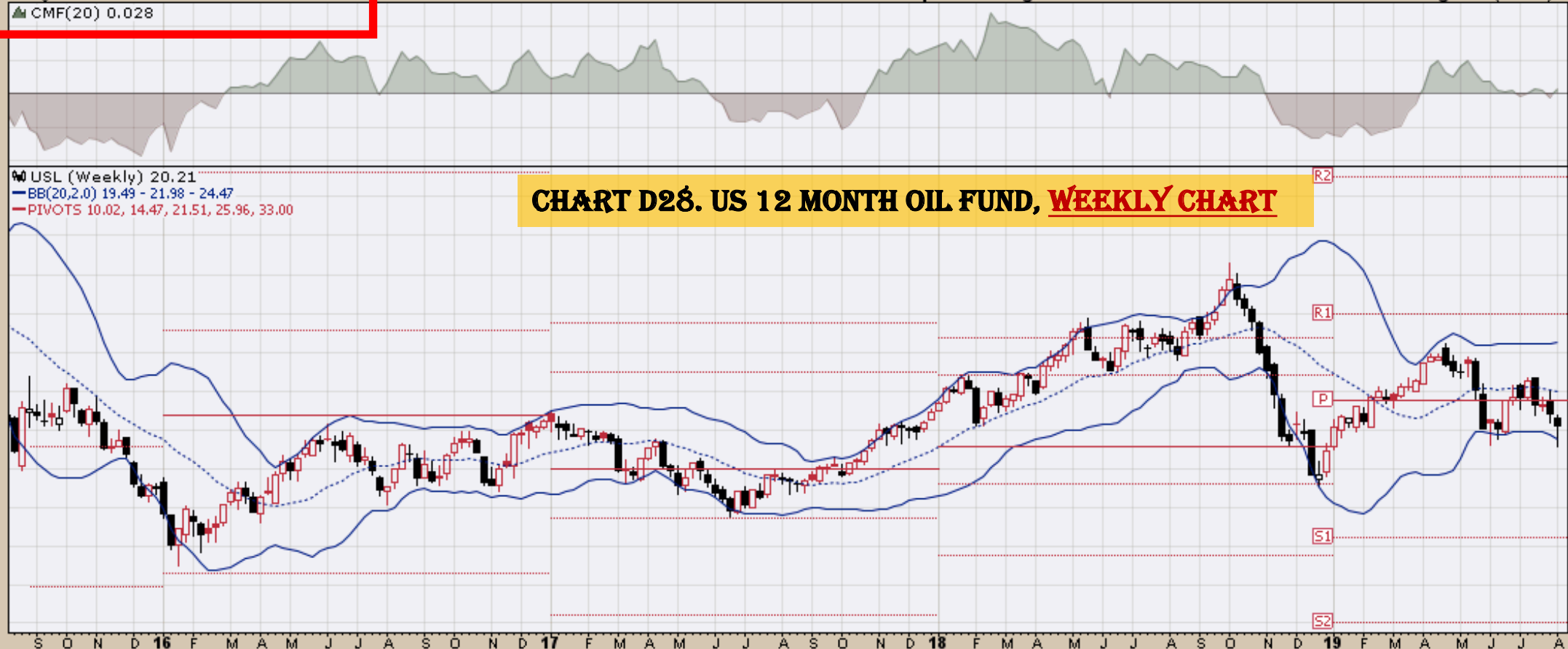
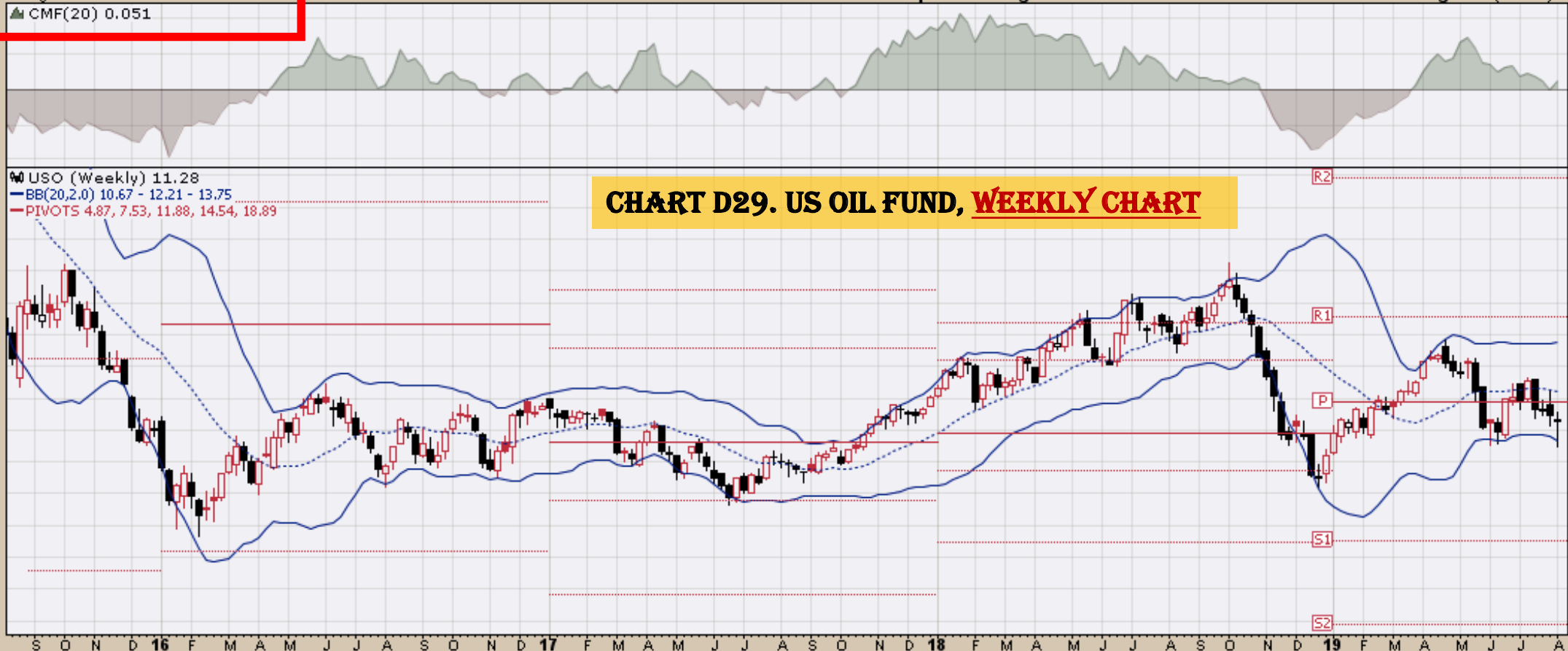
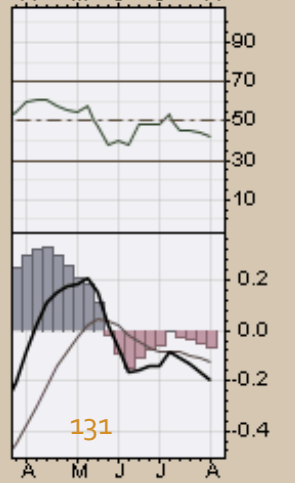
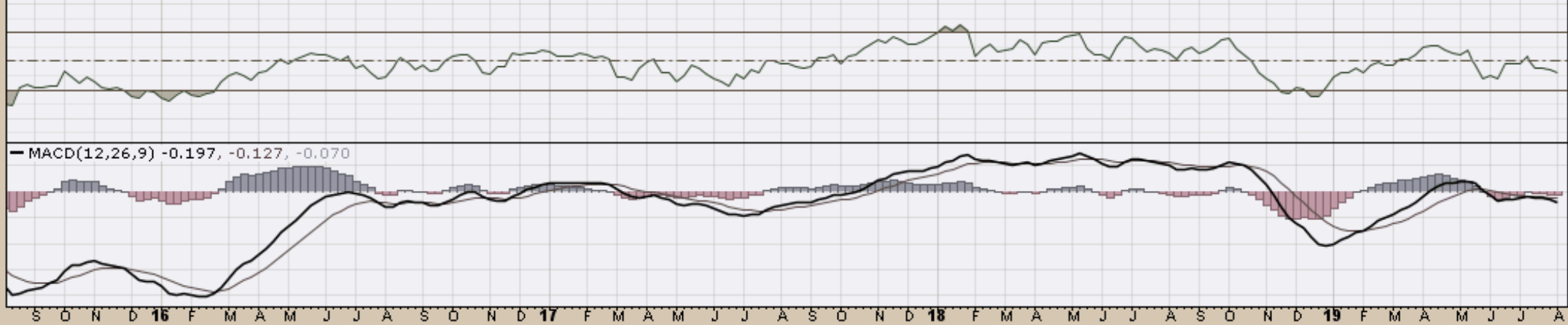


CHART D29. US OIL FUND, WEEKLY CHART

USO (Weekly) 11.28
— BB(20,2,0) 10.67 - 12.21 - 13.75
— PIVOTS 4.87, 7.53, 11.88, 14.54, 18.89



▲ RSI(14) 42.48





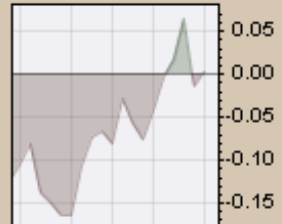
WEAT (Weekly) 5.39
 BB(20,2.0) 4.88 - 5.43 - 5.97
 PIVOTS 4.92, 5.49, 6.41, 6.98, 7.90

CHART DSO. WHEAT, WEEKLY CHART

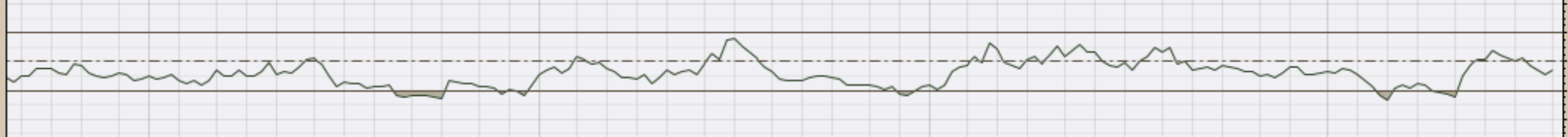


0.1
0.0
-0.1
-0.2
-0.3

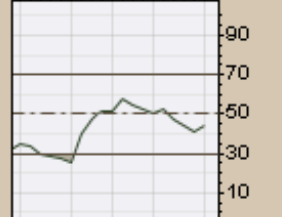
10.25
10.00
9.75
9.50
9.25
9.00
8.75
8.50
8.25
8.00
7.75
7.50
7.25
7.00
6.75
6.50
6.25
6.00
5.75
5.50
5.25
5.00
4.75



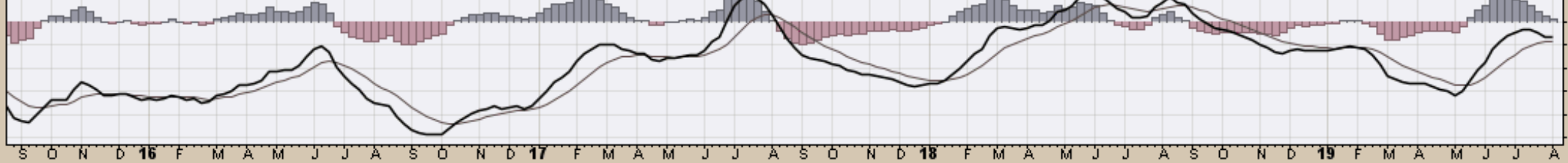
▲ RSI(14) 44.43



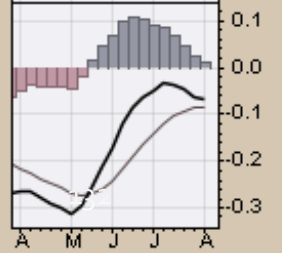
90
70
50
30
10



MACD(12,26,9) -0.070, -0.083, 0.013



0.10
0.00
-0.10
-0.20
-0.30
-0.40
-0.50



End