

Casey Kasem's American Top 40 – August 1st, 1970

- 40 (new): Groovy Situation - Gene Chandler
- 39: Gimme Dat Ding - The Pipkins
- 38 (new): I Want To Take You Higher - Ike & Tina Turner
- 37: A Song Of Joy - Miguel Rios
- 36: Do You See My Love (For You Growing) - Junior Walker & The All-Stars
- 35 (new): Hand Me Down World - The Guess Who
- 34: Mississippi Queen - Mountain
- 33: Silverbird - Mark Lindsay
- 32: Everybody's Got The Right To Love - The Supremes
- 31: The Sly, Slick and the Wicked - The Lost Generation
- 30 (new): Big Yellow Taxi - The Neighborhood
- 29: Maybe - The Three Degrees
- (missing oldie): Please Mr. Postman - The Marvelettes (No. 1 from 1961)
- 28: Summertime Blues - The Who
- 27: 25 Or 6 To 4 - Chicago
- 26: Ride Captain Ride - Blues Image
- 25: Overture From "Tommy" - Assembled Multitude
- 24: Westbound #9 - The Flaming Ember
- 23: Patches - Clarence Carter
- (missing oldie): Itsy Bitsy Teeny Weeny Yellow Polka Dot Bikini - Brian Hyland (No. 1 from 1960)
- 22: Tell It All Brother - Kenny Rogers & The First Edition
- 21: Teach Your Children - Crosby, Stills, Nash & Young
- 20: Lay Down (Candles In The Rain) - Melanie & Edwin Hawkins Singers
- 19: Hitching A Ride - Vanity Fare
- 18: Are You Ready - Pacific Gas & Electric
- 17: Lay A Little Lovin' On Me - Robin McNamara
- 16: (If You Let Me Make Love To You Then) Why Can't I Touch You? - Ronnie Dyson
- 15: Get Up (I Feel Like Being A) Sex Machine - James Brown
- oldie: Good Vibrations - The Beach Boys (No. 1 from 1966)
- 14: Ohio - Crosby, Stills, Nash & Young
- 13: I Just Can't Help Believing - B. J. Thomas
- 12: In The Summertime - Mungo Jerry
- 11: War - Edwin Starr
- 10: Ooh Child - The Stairsteps
- (missing oldie): Can't Get Used To Losing You - Andy Williams (No. 2 from 1963)
- 9: Ball Of Confusion - The Temptations
- 8: The Love You Save - The Jackson Five
- 7: Tighter and Tighter - Alive and Kicking
- 6: Mama Told Me Not To Come - Three Dog Night
- 5: Band Of Gold - Freda Payne
- 4: Spill The Wine - Eric Burdon & War
- 3: Signed, Sealed, Delivered I'm Yours - Stevie Wonder
- oldie: Calcutta - Lawrence Welk (No. 1 from 1961)
- 2: Make It With You - Bread
- 1: (They Long to Be) Close To You - Carpenters